Electronic Comprehensive Validation Package (eCVP)

Vera Belitsky Vera Belitsky 07-30-2021

WORK ORDER #: 2107284

Work Order Summary

CLIENT:	Mr. Robert Kohlhardt AECOM 2020 L Street, Suite 400 Sacramento, CA 95811	**BILL TO:**	Mr. Jerry Montgomery SWPPQueen 7202 Gloria Drive #25 Sacramento, CA 95831
PHONE:	916-679-2000	**P.O. #**	
FAX:	916-679-2900	**PROJECT #**	606327936 SMUD 59th ST
DATE RECEIVED:	07/14/2021	**CONTACT:**	Monica Tran
DATE COMPLETED:	07/28/2021		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	SG-VW57A-02	TO-15	5.7 "Hg	9.9 psi
02A	SG-VW56B-02	TO-15	5.9 "Hg	10.1 psi
03A	SG-VW56A-02	TO-15	6.3 "Hg	9.8 psi
04A	SG-VW39B-02	TO-15	7.8 "Hg	10 psi
05A	SG-VW39A-02	TO-15	5.7 "Hg	9.8 psi
06A	SG-VW38B-03	TO-15	6.1 "Hg	9.8 psi
07A	SG-VW38A-02	TO-15	8.6 "Hg	9.9 psi
08A	SG-VW38A-03	TO-15	8.4 "Hg	9.9 psi
09A	SG-VW15-02	TO-15	9 "Hg	9.6 psi
10A	SG-VW15-03	TO-15	8.2 "Hg	10 psi
11A	SG-VW33A-02	TO-15	10.2 "Hg	9.9 psi
12A	SG-VW33B-02	TO-15	9.8 "Hg	10 psi
13A	SG-VW34A-02	TO-15	7.8 "Hg	9.9 psi
14A	SG-VW34A-03	TO-15	8.4 "Hg	9.9 psi
15A	SG-VW34B-02	TO-15	9 "Hg	10 psi
16A	SG-VW55B-02	TO-15	6.5 "Hg	9.9 psi
17A	SG-VW60A-01	TO-15	5.5 "Hg	9.8 psi
18A	SG-VW60B-01	TO-15	4.9 "Hg	10 psi
19A	SG-VW54B-02	TO-15	7.6 "Hg	10 psi
20A	SG-VW24B-02	TO-15	9.2 "Hg	10 psi
21A	SG-VW58A-01	TO-15	7.1 "Hg	10 psi
22A	SG-VW58B-01	TO-15	7.3 "Hg	9.9 psi
23A	SG-VW23B-02	TO-15	6.3 "Hg	10 psi

Continued on next page

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DATE COMPLETED:	07/28/2021		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
24A	SG-VW22A-02	TO-15	6.9 "Hg	10 psi
25A	SG-VW22B-02	TO-15	6.7 "Hg	9.9 psi
26A	SG-VW20A-02	TO-15	6.5 "Hg	10.1 psi
27A	Lab Blank	TO-15	NA	NA
27B	Lab Blank	TO-15	NA	NA
28A	CCV	TO-15	NA	NA
28B	CCV	TO-15	NA	NA
29A	LCS	TO-15	NA	NA
29AA	LCSD	TO-15	NA	NA
29B	LCS	TO-15	NA	NA
29BB	LCSD	TO-15	NA	NA

CERTIFIED BY: Heidi Hayes DATE: 07/28/21

Technical Director

Certification numbers: AZ Licensure AZ0775, FL NELAP – E87680, LA NELAP – 02089, NH NELAP - 209220, NJ NELAP - CA016, NY NELAP - 11291, TX NELAP - T104704434-20-16, UT NELAP – CA009332020-12, VA NELAP - 10615, WA NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005-014, Effective date: 10/18/2020, Expiration date: 10/17/2021.
Eurofins Air Toxics, LLC certifies that the test results contained in this report meet all requirements of the NELAC standards

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 351-8279

LABORATORY NARRATIVE
EPA Method TO-15
AECOM
Workorder# 2107284

Twenty-six 1 Liter Summa Canister samples were received on July 14, 2021. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

A single point calibration for TPH referenced to Gasoline was performed for each daily analytical batch. Recovery is reported as 100% in the associated results for each CCV.

The reported CCV for each daily batch may be derived from more than one analytical file due to the client's request for non-standard compounds.

Non-standard compounds may have different acceptance criteria than the standard TO-14A/TO-15 compound list as per contract or verbal agreement.

The US EPA released a document on December 17, 2010 outlining possible data quality concerns for Acrolein measured by EPA Method TO-15. As a result, Acrolein is reported as estimated. Please refer to EPA document tilted "Data Quality Evaluation Guidelines for Ambient Air Acrolein Measurements December 17, 2010" located on-line at www.epa.gov/ttn/amtic/airtox.html for complete details.

All Quality Control Limit exceedances and affected sample results are noted by flags. Each flag is defined at the bottom of this Case Narrative and on each Sample Result Summary page. Target compound non-detects in the samples that are associated with high bias in QC analyses have not been flagged.

Definition of Data Qualifying Flags

Ten qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

M - Reported value may be biased due to apparent matrix interferences.

CN - See Case Narrative.

File extensions may have been used on the data analysis sheets and indicates

as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

Table 1								
Client Sample ID	Lab Sample ID	Date Collected	Date Received	Date Extracted	Sample Holding Time (Days)	Date Analyzed	Sample Extract Holding Time (Days)	Sample Condition
SG-VW57A-02	2107284-01A	07/14/2021	07/14/2021	NA	12	07/26/2021	NA	GOOD
SG-VW56B-02	2107284-02A	07/14/2021	07/14/2021	NA	12	07/26/2021	NA	GOOD
SG-VW56A-02	2107284-03A	07/14/2021	07/14/2021	NA	12	07/26/2021	NA	GOOD
SG-VW39B-02	2107284-04A	07/14/2021	07/14/2021	NA	12	07/26/2021	NA	GOOD
SG-VW39A-02	2107284-05A	07/14/2021	07/14/2021	NA	12	07/26/2021	NA	GOOD
SG-VW38B-03	2107284-06A	07/14/2021	07/14/2021	NA	12	07/26/2021	NA	GOOD
SG-VW38A-02	2107284-07A	07/14/2021	07/14/2021	NA	12	07/26/2021	NA	GOOD
SG-VW38A-03	2107284-08A	07/14/2021	07/14/2021	NA	12	07/26/2021	NA	GOOD
SG-VW15-02	2107284-09A	07/14/2021	07/14/2021	NA	12	07/26/2021	NA	GOOD
SG-VW15-03	2107284-10A	07/14/2021	07/14/2021	NA	12	07/26/2021	NA	GOOD
SG-VW33A-02	2107284-11A	07/14/2021	07/14/2021	NA	12	07/26/2021	NA	GOOD
SG-VW33B-02	2107284-12A	07/14/2021	07/14/2021	NA	12	07/26/2021	NA	GOOD
SG-VW34A-02	2107284-13A	07/14/2021	07/14/2021	NA	12	07/26/2021	NA	GOOD
SG-VW34A-03	2107284-14A	07/14/2021	07/14/2021	NA	13	07/27/2021	NA	GOOD
SG-VW34B-02	2107284-15A	07/14/2021	07/14/2021	NA	13	07/27/2021	NA	GOOD
SG-VW55B-02	2107284-16A	07/14/2021	07/14/2021	NA	13	07/27/2021	NA	GOOD
SG-VW60A-01	2107284-17A	07/14/2021	07/14/2021	NA	13	07/27/2021	NA	GOOD
SG-VW60B-01	2107284-18A	07/14/2021	07/14/2021	NA	13	07/27/2021	NA	GOOD
SG-VW54B-02	2107284-19A	07/14/2021	07/14/2021	NA	13	07/27/2021	NA	GOOD
SG-VW24B-02	2107284-20A	07/14/2021	07/14/2021	NA	13	07/27/2021	NA	GOOD
SG-VW58A-01	2107284-21A	07/14/2021	07/14/2021	NA	13	07/27/2021	NA	GOOD
SG-VW58B-01	2107284-22A	07/14/2021	07/14/2021	NA	13	07/27/2021	NA	GOOD
SG-VW23B-02	2107284-23A	07/14/2021	07/14/2021	NA	13	07/27/2021	NA	GOOD
SG-VW22A-02	2107284-24A	07/14/2021	07/14/2021	NA	13	07/27/2021	NA	GOOD
SG-VW22B-02	2107284-25A	07/14/2021	07/14/2021	NA	13	07/27/2021	NA	GOOD
SG-VW20A-02	2107284-26A	07/14/2021	07/14/2021	NA	13	07/27/2021	NA	GOOD
Lab Blank	2107284-27A	NA	NA	NA	NA	07/26/2021	NA	GOOD
Lab Blank	2107284-27B	NA	NA	NA	NA	07/27/2021	NA	GOOD
CCV	2107284-28A	NA	NA	NA	NA	07/26/2021	NA	GOOD
CCV	2107284-28B	NA	NA	NA	NA	07/27/2021	NA	GOOD
LCS	2107284-29A	NA	NA	NA	NA	07/26/2021	NA	GOOD
LCSD	2107284-29AA	NA	NA	NA	NA	07/26/2021	NA	GOOD
LCS	2107284-29B	NA	NA	NA	NA	07/27/2021	NA	GOOD
LCSD	2107284-29BB	NA	NA	NA	NA	07/27/2021	NA	GOOD

Sample Results and Raw Data

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: SG-VW57A-02

Lab ID#: 2107284-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Propanol	4.1	5.1	10	12
Hexane	1.0	2.7	3.6	9.5
Tetrachloroethene	1.0	14	7.0	92

Client Sample ID: SG-VW56B-02

Lab ID#: 2107284-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,2,4-Trimethylbenzene	1.0	2.5	5.2	12
1,3,5-Trimethylbenzene	1.0	1.3	5.2	6.2
4-Ethyltoluene	1.0	1.5	5.2	7.2
m,p-Xylene	1.0	2.0	4.6	8.6
Naphthalene	2.1	2.2	11	11
Tetrachloroethene	1.0	2.9	7.1	20

Client Sample ID: SG-VW56A-02

Lab ID#: 2107284-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	1.0	4.5	7.2	31

Client Sample ID: SG-VW39B-02

Lab ID#: 2107284-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	1.1	2.3	7.7	16
Toluene	1.1	3.2	4.3	12

Client Sample ID: SG-VW39A-02

Lab ID#: 2107284-05A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: SG-VW39A-02

Lab ID#: 2107284-05A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	1.0	3.2	7.0	22

Client Sample ID: SG-VW38B-03

Lab ID#: 2107284-06A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Chloroform	1.0	1.5	5.1	7.2
Tetrachloroethene	1.0	5.2	7.1	35
Toluene	1.0	5.3	3.9	20

Client Sample ID: SG-VW38A-02

Lab ID#: 2107284-07A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	1.2	19	7.9	130

Client Sample ID: SG-VW38A-03

Lab ID#: 2107284-08A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Propanol	4.6	4.7	11	11
Acetone	12	13	28	31
Tetrachloroethene	1.2	18	7.9	120

Client Sample ID: SG-VW15-02

Lab ID#: 2107284-09A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	12	14	28	33
Tetrahydrofuran	1.2	3.2	3.5	9.6

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: SG-VW15-03

Lab ID#: 2107284-10A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,2,4-Trimethylbenzene	1.2	10	5.7	50
1,3,5-Trimethylbenzene	1.2	2.0	5.7	9.7
2-Propanol	4.6	4.7	11	12
4-Ethyltoluene	1.2	3.4	5.7	17
Acetone	12	18	27	42
Carbon Disulfide	4.6	15	14	46
Ethyl Benzene	1.2	5.0	5.0	22
m,p-Xylene	1.2	3.2	5.0	14
Propylbenzene	1.2	2.2	5.7	11

Client Sample ID: SG-VW33A-02

Lab ID#: 2107284-11A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	13	15	30	35
Carbon Disulfide	5.1	6.8	16	21
Tetrachloroethene	1.3	2.2	8.6	15
Toluene	1.3	2.0	4.8	7.5

Client Sample ID: SG-VW33B-02

Lab ID#: 2107284-12A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Propanol	5.0	5.5	12	14
Chloroform	1.2	1.7	6.1	8.2
Freon 12	1.2	1.6	6.2	7.9
Tetrachloroethene	1.2	8.5	8.5	57

Client Sample ID: SG-VW34A-02

Lab ID#: 2107284-13A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: SG-VW34A-02

Lab ID#: 2107284-13A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	1.1	3.1	7.7	21

Client Sample ID: SG-VW34A-03

Lab ID#: 2107284-14A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	1.2	3.1	7.9	21

Client Sample ID: SG-VW34B-02

Lab ID#: 2107284-15A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	1.9	5.9	9.3
Tetrachloroethene	1.2	3.8	8.1	26

Client Sample ID: SG-VW55B-02

Lab ID#: 2107284-16A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	1.1	1.3	7.2	9.1

Client Sample ID: SG-VW60A-01

Lab ID#: 2107284-17A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1-Difluoroethane	4.1	8300 E	11	22000 E
1,2,4-Trimethylbenzene	1.0	1.2	5.0	6.1
1,3,5-Trimethylbenzene	1.0	1.3	5.0	6.4
2,2,4-Trimethylpentane	1.0	130	4.8	630
2-Propanol	4.1	13	10	33
4-Ethyltoluene	1.0	2.2	5.0	11
Acetone	10	32	24	76

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: SG-VW60A-01

Lab ID#: 2107284-17A

Benzene	1.0	31	3.2	98
Carbon Disulfide	4.1	12	13	38
Cyclohexane	1.0	6.5	3.5	22
Ethyl Benzene	1.0	9.6	4.4	42
Heptane	1.0	9.0	4.2	37
Hexane	1.0	100	3.6	360
m,p-Xylene	1.0	22	4.4	93
o-Xylene	1.0	7.4	4.4	32
Tetrachloroethene	1.0	13	6.9	87
Tetrahydrofuran	1.0	3.4	3.0	10
Toluene	1.0	91	3.8	340
TPH ref. to Gasoline (MW=100)	100	1800	420	7400

Client Sample ID: SG-VW60B-01

Lab ID#: 2107284-18A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1-Difluoroethane	4.0	37	11	100
2-Propanol	4.0	15	9.9	37
Freon 12	1.0	2.6	5.0	13
Hexane	1.0	62	3.5	220
Tetrachloroethene	1.0	21	6.8	140

Client Sample ID: SG-VW54B-02

Lab ID#: 2107284-19A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.1	5.8	5.6	29
Tetrachloroethene	1.1	6.8	7.6	46

Client Sample ID: SG-VW24B-02

Lab ID#: 2107284-20A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: SG-VW24B-02

Lab ID#: 2107284-20A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Propanol	4.8	7.8	12	19
Freon 12	1.2	4.2	6.0	20
Tetrachloroethene	1.2	50	8.2	340

Client Sample ID: SG-VW58A-01

Lab ID#: 2107284-21A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1-Difluoroethane	4.4	370	12	1000
1,2,4-Trimethylbenzene	1.1	3.1	5.4	15
1,3,5-Trimethylbenzene	1.1	2.1	5.4	10
2,2,4-Trimethylpentane	1.1	5.8	5.1	27
2-Propanol	4.4	18	11	44
4-Ethyltoluene	1.1	4.0	5.4	20
4-Methyl-2-pentanone	1.1	1.7	4.5	6.9
Acetone	11	40	26	95
Benzene	1.1	7.1	3.5	23
Carbon Disulfide	4.4	9.8	14	31
Ethyl Benzene	1.1	8.5	4.8	37
Heptane	1.1	1.5	4.5	6.1
Hexane	1.1	24	3.9	84
m,p-Xylene	1.1	24	4.8	110
o-Xylene	1.1	8.5	4.8	37
Tetrachloroethene	1.1	26	7.5	180
Tetrahydrofuran	1.1	1.8	3.2	5.3
Toluene	1.1	56	4.1	210
TPH ref. to Gasoline (MW=100)	110	360	450	1500

Client Sample ID: SG-VW58B-01

Lab ID#: 2107284-22A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1-Difluoroethane	4.4	3000 E	12	8000 E

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: SG-VW58B-01

Lab ID#: 2107284-22A

2-Propanol	4.4	15	11	36
Hexane	1.1	24	3.9	86
Tetrachloroethene	1.1	51	7.5	350
Toluene	1.1	1.1	4.2	4.3

Client Sample ID: SG-VW23B-02

Lab ID#: 2107284-23A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1-Difluoroethane	4.3	8.8	12	24
2-Propanol	4.3	5.2	10	13
Carbon Disulfide	4.3	6.8	13	21
Tetrachloroethene	1.1	21	7.2	140

Client Sample ID: SG-VW22A-02

Lab ID#: 2107284-24A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,2,4-Trimethylbenzene	1.1	3.2	5.4	16
2-Propanol	4.4	4.3 J	11	11 J
4-Ethyltoluene	1.1	2.7	5.4	13
Chloroform	1.1	2.4	5.3	12
Ethyl Benzene	1.1	1.5	4.7	6.5
m,p-Xylene	1.1	4.2	4.7	18
o-Xylene	1.1	2.4	4.7	10
Tetrachloroethene	1.1	17	7.4	110
Toluene	1.1	6.9	4.1	26
Trichloroethene	1.1	1.2	5.8	6.7

Client Sample ID: SG-VW22B-02

Lab ID#: 2107284-25A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1-Difluoroethane	4.3	18	12	48

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: SG-VW22B-02

Lab ID#: 2107284-25A

2-Propanol	4.3	4.9	10	12
Acetone	11	19	26	46
Chloroform	1.1	5.2	5.2	26
Ethanol	11	21	20	39
Tetrachloroethene	1.1	22	7.3	150
Toluene	1.1	6.1	4.0	23
Trichloroethene	1.1	2.1	5.8	11

Client Sample ID: SG-VW20A-02

Lab ID#: 2107284-26A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1-Difluoroethane	4.3	180	12	490
Acetone	11	23	26	54
Tetrachloroethene	1.1	5.8	7.3	39

eurofins | Air Toxics

Client Sample ID: SG-VW57A-02

Lab ID#: 2107284-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3072609**	**Date of Collection: 7/14/21 7:07:00 AM**	
Dil. Factor:	**2.07**	**Date of Analysis: 7/26/21 03:16 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1,2-Tetrachloroethane	4.1	Not Detected	28	Not Detected
1,1,1-Trichloroethane	1.0	Not Detected	5.6	Not Detected
1,1,2,2-Tetrachloroethane	1.0	Not Detected	7.1	Not Detected
1,1,2-Trichloroethane	1.0	Not Detected	5.6	Not Detected
1,1-Dichloroethane	1.0	Not Detected	4.2	Not Detected
1,1-Dichloroethene	1.0	Not Detected	4.1	Not Detected
1,1-Difluoroethane	4.1	Not Detected	11	Not Detected
1,2,3-Trichloropropane	4.1	Not Detected	25	Not Detected
1,2,4-Trichlorobenzene	4.1	Not Detected	31	Not Detected
1,2,4-Trimethylbenzene	1.0	Not Detected	5.1	Not Detected
1,2-Dibromo-3-chloropropane	4.1	Not Detected	40	Not Detected
1,2-Dibromoethane (EDB)	1.0	Not Detected	8.0	Not Detected
1,2-Dichlorobenzene	1.0	Not Detected	6.2	Not Detected
1,2-Dichloroethane	1.0	Not Detected	4.2	Not Detected
1,2-Dichloropropane	1.0	Not Detected	4.8	Not Detected
1,3,5-Trimethylbenzene	1.0	Not Detected	5.1	Not Detected
1,3-Butadiene	1.0	Not Detected	2.3	Not Detected
1,3-Dichlorobenzene	1.0	Not Detected	6.2	Not Detected
1,4-Dichlorobenzene	1.0	Not Detected	6.2	Not Detected
1,4-Dioxane	4.1	Not Detected	15	Not Detected
2,2,4-Trimethylpentane	1.0	Not Detected	4.8	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.1	Not Detected	12	Not Detected
2-Hexanone	4.1	Not Detected	17	Not Detected
2-Propanol	4.1	5.1	10	12
3-Chloropropene	4.1	Not Detected	13	Not Detected
4-Ethyltoluene	1.0	Not Detected	5.1	Not Detected
4-Methyl-2-pentanone	1.0	Not Detected	4.2	Not Detected
Acetone	10	Not Detected	24	Not Detected
Acrolein	4.1	Not Detected	9.5	Not Detected
Acrylonitrile	4.1	Not Detected	9.0	Not Detected
alpha-Chlorotoluene	1.0	Not Detected	5.4	Not Detected
Benzene	1.0	Not Detected	3.3	Not Detected
Bromodichloromethane	1.0	Not Detected	6.9	Not Detected
Bromoform	1.0	Not Detected	11	Not Detected
Bromomethane	10	Not Detected	40	Not Detected
Carbon Disulfide	4.1	Not Detected	13	Not Detected
Carbon Tetrachloride	1.0	Not Detected	6.5	Not Detected
Chlorobenzene	1.0	Not Detected	4.8	Not Detected
Chloroethane	4.1	Not Detected	11	Not Detected
Chloroform	1.0	Not Detected	5.0	Not Detected
Chloromethane	10	Not Detected	21	Not Detected
cis-1,2-Dichloroethene	1.0	Not Detected	4.1	Not Detected

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Client Sample ID: SG-VW57A-02

Lab ID#: 2107284-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3072609**	**Date of Collection:**	**7/14/21 7:07:00 AM**
Dil. Factor:	**2.07**	**Date of Analysis:**	**7/26/21 03:16 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,3-Dichloropropene	1.0	Not Detected	4.7	Not Detected
Cumene	1.0	Not Detected	5.1	Not Detected
Cyclohexane	1.0	Not Detected	3.6	Not Detected
Dibromochloromethane	1.0	Not Detected	8.8	Not Detected
Dibromomethane	4.1	Not Detected	29	Not Detected
Ethanol	10	Not Detected	20	Not Detected
Ethyl Acetate	4.1	Not Detected	15	Not Detected
Ethyl Benzene	1.0	Not Detected	4.5	Not Detected
Ethyl-tert-butyl ether	4.1	Not Detected	17	Not Detected
Freon 11	1.0	Not Detected	5.8	Not Detected
Freon 12	1.0	Not Detected	5.1	Not Detected
Freon 113	1.0	Not Detected	7.9	Not Detected
Freon 114	1.0	Not Detected	7.2	Not Detected
Freon 134a	4.1	Not Detected	17	Not Detected
Heptane	1.0	Not Detected	4.2	Not Detected
Hexachlorobutadiene	4.1	Not Detected	44	Not Detected
Hexachloroethane	4.1	Not Detected	40	Not Detected
Hexane	1.0	2.7	3.6	9.5
Iodomethane	10	Not Detected	60	Not Detected
Isopropyl ether	4.1	Not Detected	17	Not Detected
m,p-Xylene	1.0	Not Detected	4.5	Not Detected
Methyl tert-butyl ether	4.1	Not Detected	15	Not Detected
Methylene Chloride	10	Not Detected	36	Not Detected
Naphthalene	2.1	Not Detected	11	Not Detected
o-Xylene	1.0	Not Detected	4.5	Not Detected
Propylbenzene	1.0	Not Detected	5.1	Not Detected
Propylene	4.1	Not Detected	7.1	Not Detected
Styrene	1.0	Not Detected	4.4	Not Detected
tert-Amyl methyl ether	4.1	Not Detected	17	Not Detected
tert-Butyl alcohol	4.1	Not Detected	12	Not Detected
Tetrachloroethene	1.0	14	7.0	92
Tetrahydrofuran	1.0	Not Detected	3.0	Not Detected
Toluene	1.0	Not Detected	3.9	Not Detected
TPH ref. to Gasoline (MW=100)	100	Not Detected	420	Not Detected
trans-1,2-Dichloroethene	1.0	Not Detected	4.1	Not Detected
trans-1,3-Dichloropropene	1.0	Not Detected	4.7	Not Detected
Trichloroethene	1.0	Not Detected	5.6	Not Detected
Vinyl Acetate	4.1	Not Detected	14	Not Detected
Vinyl Bromide	4.1	Not Detected	18	Not Detected
Vinyl Chloride	1.0	Not Detected	2.6	Not Detected

Container Type: 1 Liter Summa Canister

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Client Sample ID: SG-VW57A-02

Lab ID#: 2107284-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3072609**	**Date of Collection: 7/14/21 7:07:00 AM**	
Dil. Factor:	**2.07**	**Date of Analysis: 7/26/21 03:16 PM**	

Surrogates	%Recovery	Method Limits
Toluene-d8	92	70-130
1,2-Dichloroethane-d4	103	70-130
4-Bromofluorobenzene	95	70-130

US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msd3.i/26JUL21.b/3072609.d
Lab Smp Id: 2107284-01A
Inj Date : 26-JUL-2021 15:16
Operator : LD Inst ID: msd3.i
Smp Info : 200mL N5590
Misc Info : 5.7 Hg->9.9 psi
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msd3.i/26JUL21.b/321q0622a.m
Meth Date : 28-Jul-2021 12:16 uexa Quant Type: ISTD
Cal Date : 23-JUN-2021 00:09 Cal File: 3062223.d
Als bottle: 1
Dil Factor: 2.07000
Integrator: HP RTE Compound Sublist: AEC25677.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE		(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========		=======	=======	==========	=====
* 90 Bromochloromethane							CAS #: 74-97-5	
5.284	5.284 (1.000)	130	242600	25.0000			80.00- 120.00	100.00
5.284	5.284 (1.000)	128	189074				48.46- 108.46	77.94
5.284	5.284 (1.000)	49	338606				120.39- 180.39	139.57
* 108 1,4-Difluorobenzene							CAS #: 540-36-3	
6.180	6.166 (1.000)	114	853349	25.0000			80.00- 120.00	100.00
6.180	6.166 (1.000)	88	125691				0.00- 45.52	14.73
* 153 Chlorobenzene-d5							CAS #: 3114-55-4	
8.619	8.612 (1.000)	117	731637	25.0000			80.00- 120.00	100.00
8.612	8.612 (1.000)	82	383663				25.46- 85.46	52.44
$ 104 1,2-Dichloroethane-d4							CAS #: 17060-07-0	
5.816	5.816 (1.101)	65	345064	25.8465	25.846		80.00- 120.00	100.00
5.816	5.816 (1.101)	67	168469				21.66- 81.66	48.82
$ 134 Toluene-d8							CAS #: 2037-26-5	
7.387	7.387 (1.195)	98	805792	22.9257	22.926		80.00- 120.00	100.00
7.387	7.387 (1.195)	70	88584				0.00- 41.47	10.99

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 134 Toluene-d8 (continued)							
7.387	7.387 (1.195)	100	527595			36.47- 96.47	65.48
$ 170 4-Bromofluorobenzene					CAS #: 460-00-4		
9.601	9.601 (1.114)	174	461433	23.8440	23.844	80.00- 120.00	100.00
9.601	9.601 (1.114)	95	520992			93.06- 153.06	112.91
9.601	9.601 (1.114)	176	425404			62.87- 122.87	92.19
52 2-Propanol					CAS #: 67-63-0		
3.424	3.395 (0.648)	45	36075	2.46589	5.104	80.00- 120.00	100.00
3.424	3.395 (0.648)	43	8574			0.00- 48.61	23.77
67 Hexane					CAS #: 110-54-3		
4.179	4.179 (0.791)	57	17491	1.30196	2.695	80.00- 120.00	100.00
4.179	4.179 (0.791)	43	10414			32.99- 92.99	59.54
4.179	4.179 (0.791)	86	3602			0.00- 42.56	20.60
142 Tetrachloroethene					CAS #: 127-18-4		
7.882	7.881 (0.914)	166	75335	6.57263	13.605	80.00- 120.00	100.00
7.882	7.881 (0.914)	129	58961			48.71- 108.71	78.26
7.882	7.881 (0.914)	131	56017			46.55- 106.55	74.36

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd3.i
Lab File ID: 3072609.d
Lab Smp Id: 2107284-01A
Analysis Type: VOA
Quant Type: ISTD
Operator: LD
Method File: /chem/msd3.i/26JUL21.b/321q0622a.m
Misc Info: 5.7 Hg->9.9 psi

Calibration Date: 26-JUL-2021
Calibration Time: 10:10
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	263983	158390	369576	242600	-8.10
108 1,4-Difluorobenze	833448	500069	1166827	853349	2.39
153 Chlorobenzene-d5	741338	444803	1037873	731637	-1.31

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.28	4.95	5.61	5.28	0.00
108 1,4-Difluorobenze	6.17	5.84	6.50	6.18	0.23
153 Chlorobenzene-d5	8.61	8.28	8.94	8.62	0.08

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 28-Jul-2021 12:21

US32TAR1

RECOVERY REPORT

Client Name: Client SDG: 26JUL21
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 2107284-01A
Level: LOW Operator: LD
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT20_new.spk Quant Type: ISTD
Sublist File: AEC25677.sub
Method File: /chem/msd3.i/26JUL21.b/321q0622a.m
Misc Info: 5.7 Hg->9.9 psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 104 1,2-Dichloroethan	25.000	25.846	103.39	70-130
$ 134 Toluene-d8	25.000	22.926	91.70	70-130
$ 170 4-Bromofluorobenz	25.000	23.844	95.38	70-130

Data File: /chem/msd3.i/26JUL21.b/3072609.d

Date : 26-JUL-2021 15:16

Client ID:

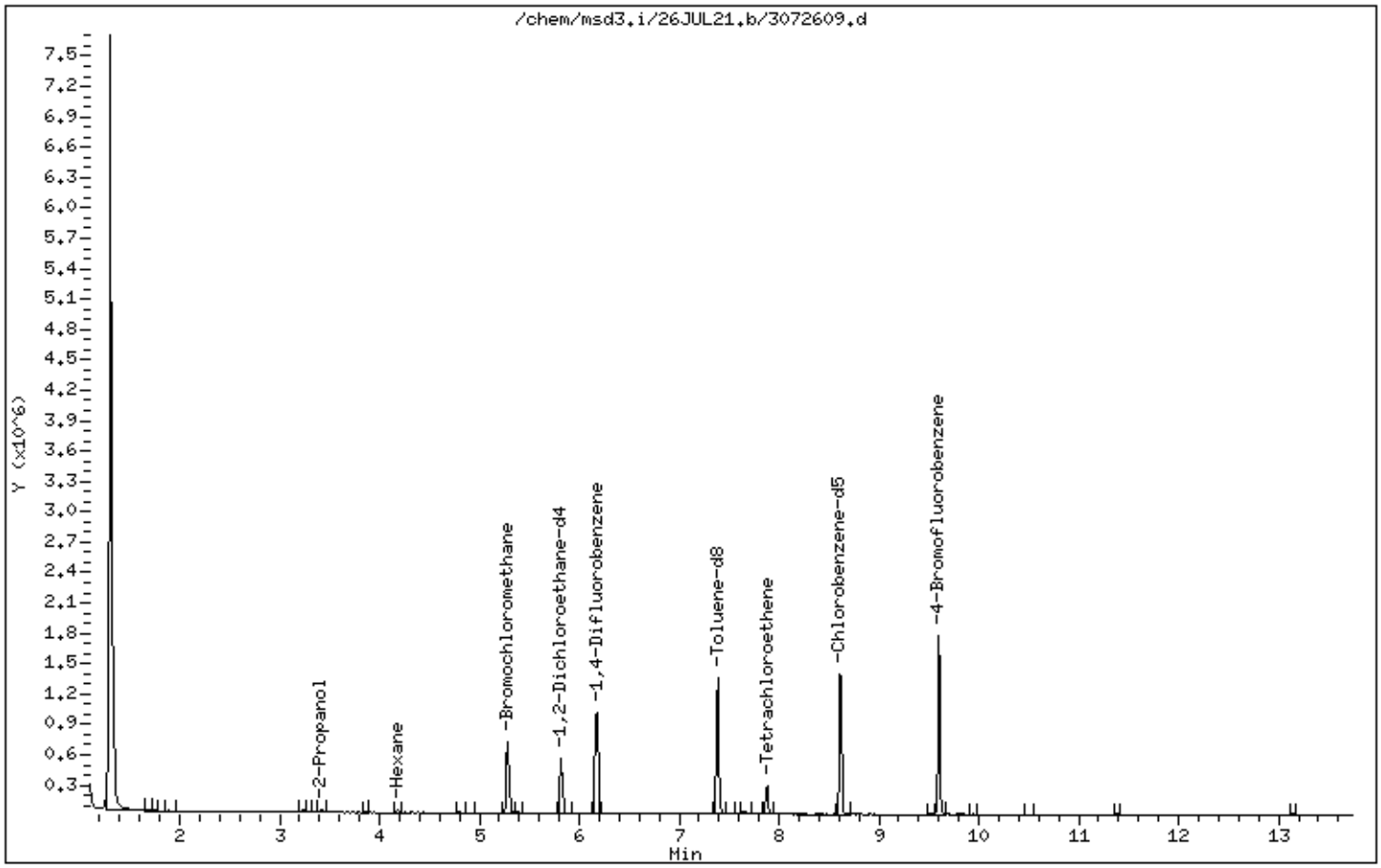
Instrument: msd3.i

Sample Info: 200mL N5590

Operator: LD

Column phase: RTX-624

Column diameter: 0.25



Data File: /chem/msd3.i/26JUL21.b/3072609.d

Date : 26-JUL-2021 15:16

Client ID:

Instrument: msd3.i

Sample Info: 200mL N5590

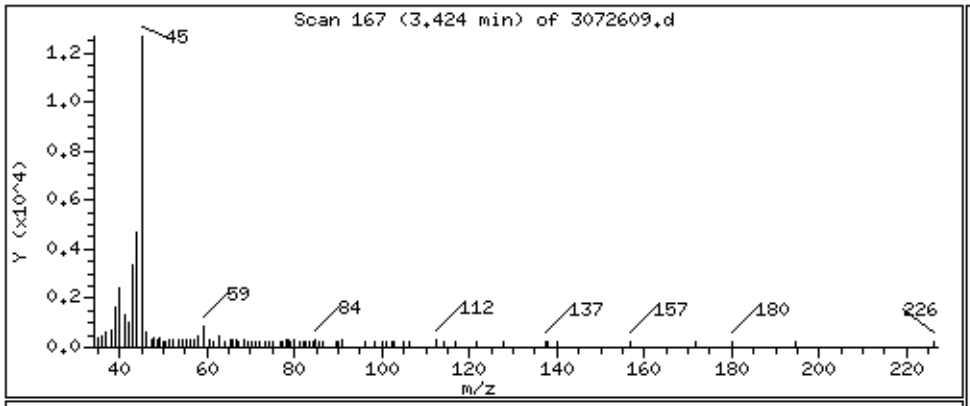
Operator: LD

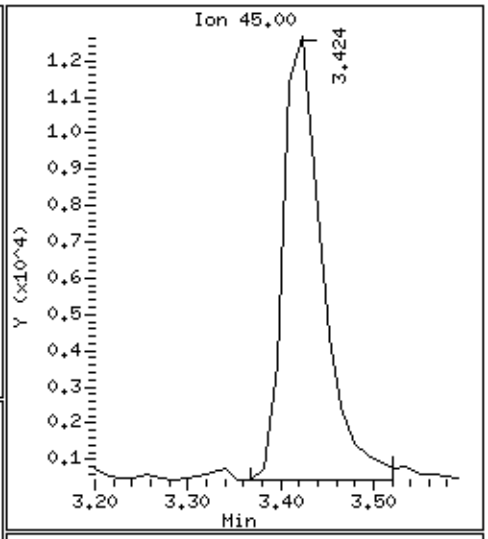
Column phase: RTX-624

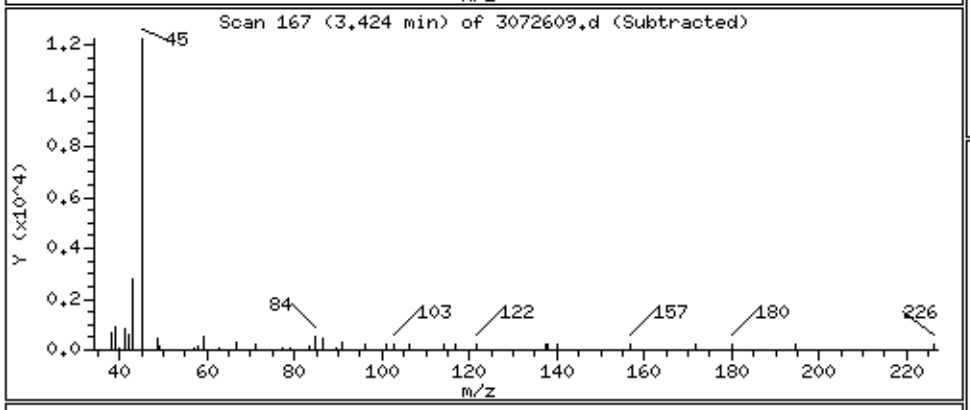
Column diameter: 0.25

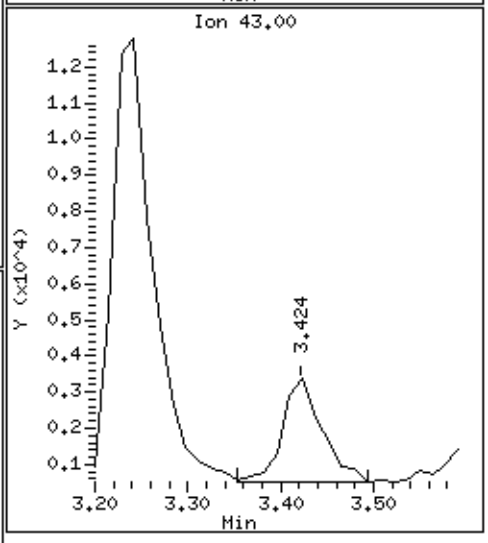
52 2-Propanol

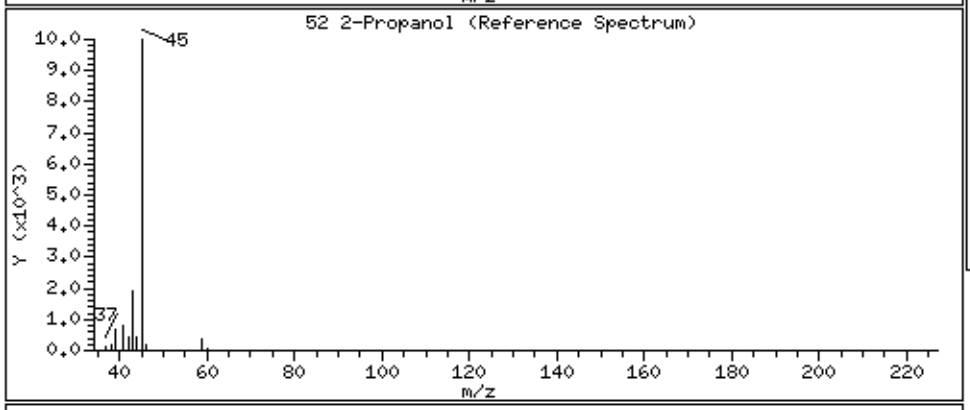
Concentration: 5.104 PPBV

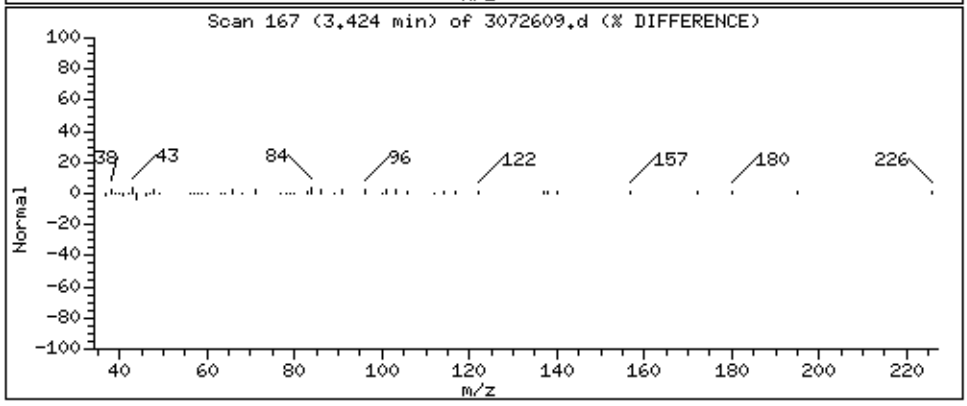












Data File: /chem/msd3.i/26JUL21.b/3072609.d

Date : 26-JUL-2021 15:16

Client ID:

Instrument: msd3.i

Sample Info: 200mL N5590

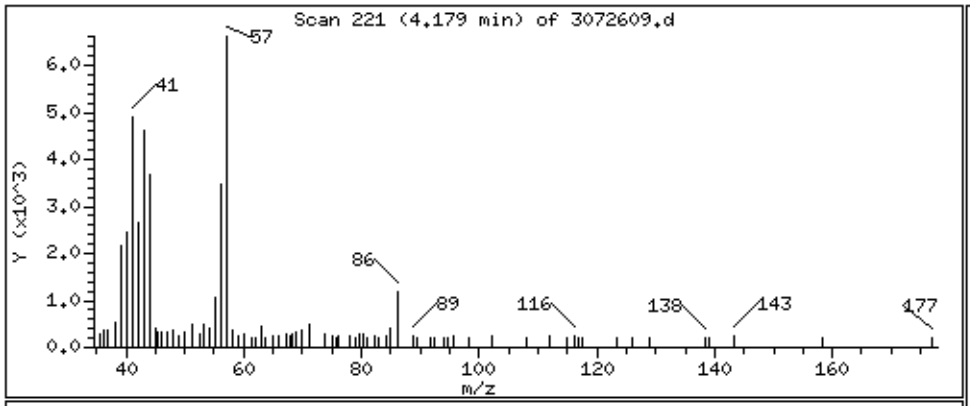
Operator: LD

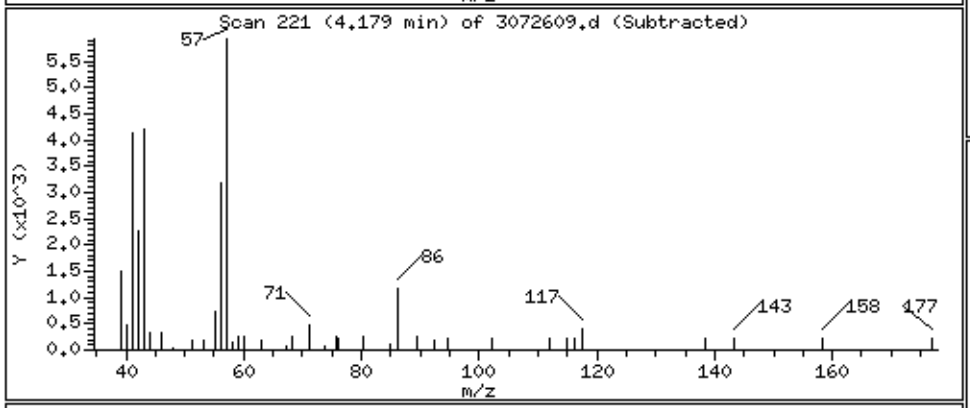
Column phase: RTX-624

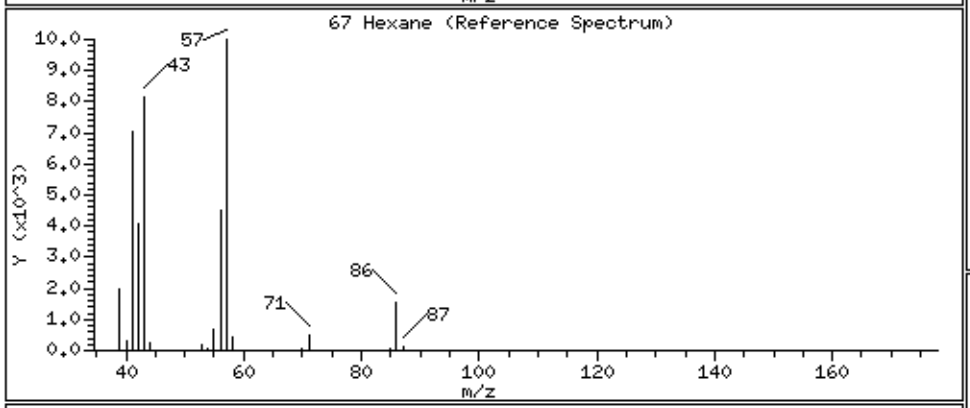
Column diameter: 0.25

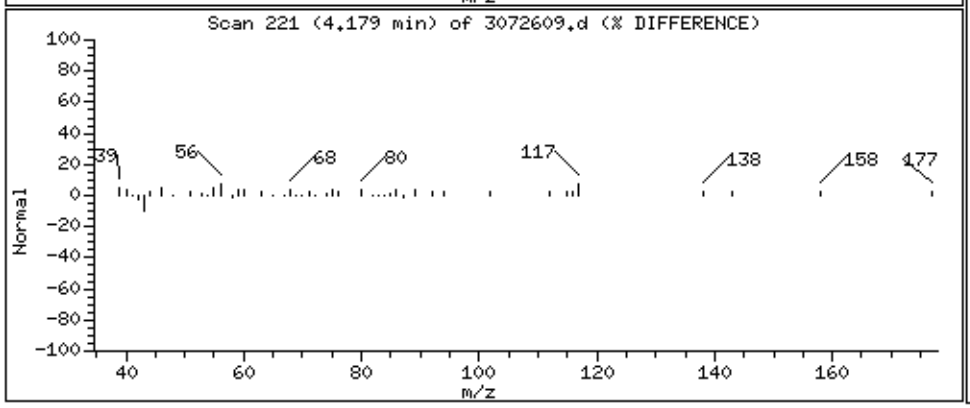
67 Hexane

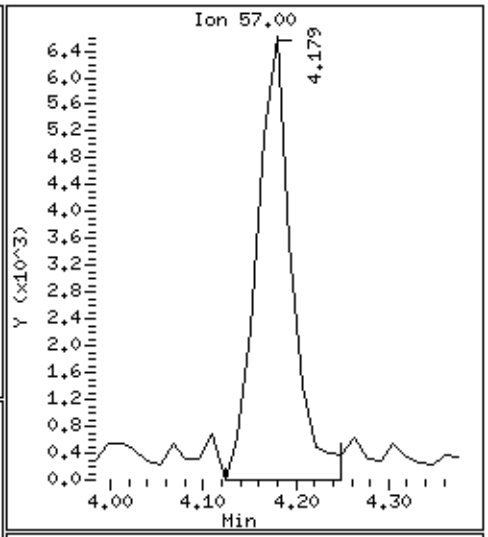
Concentration: 2.695 PPBV

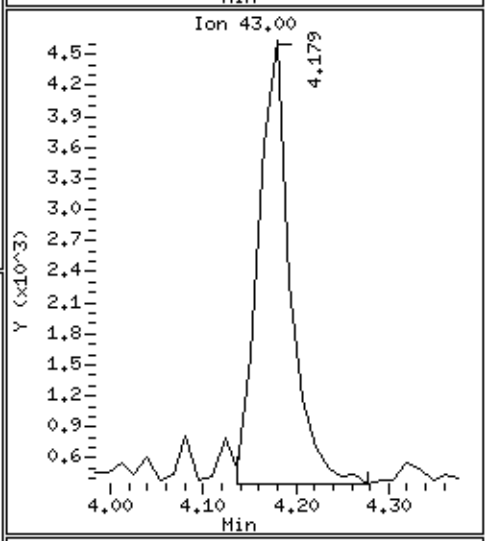


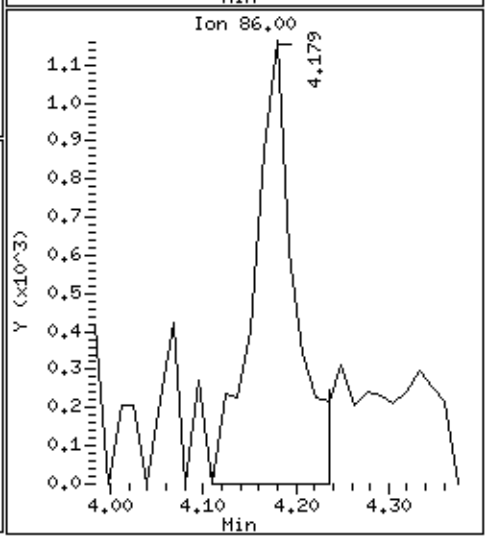












Data File: /chem/msd3.i/26JUL21.b/3072609.d

Date : 26-JUL-2021 15:16

Client ID:

Instrument: msd3.i

Sample Info: 200mL N5590

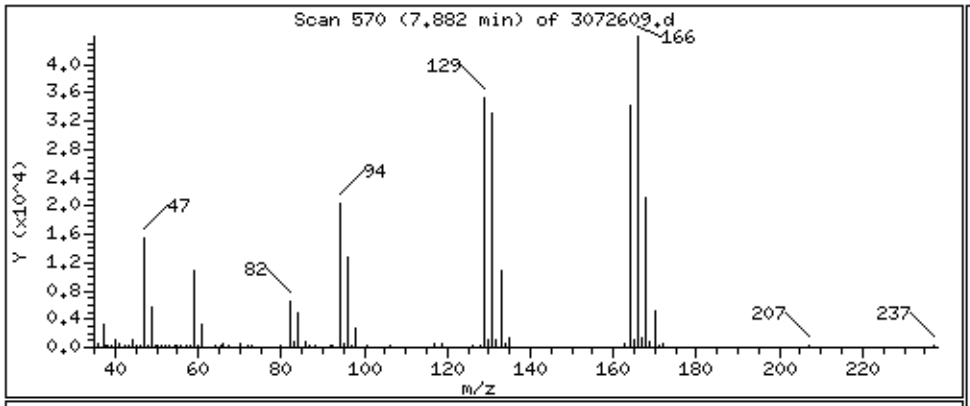
Operator: LD

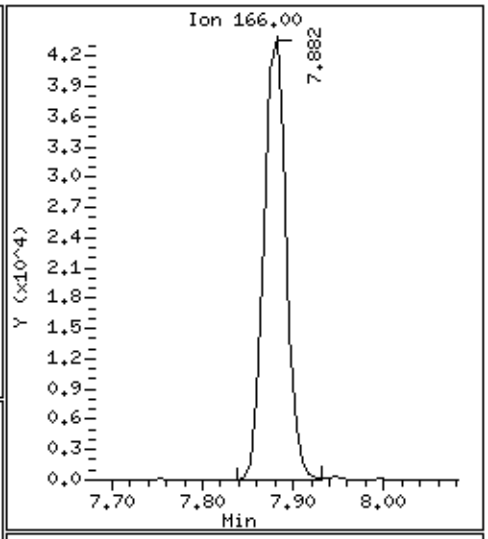
Column phase: RTX-624

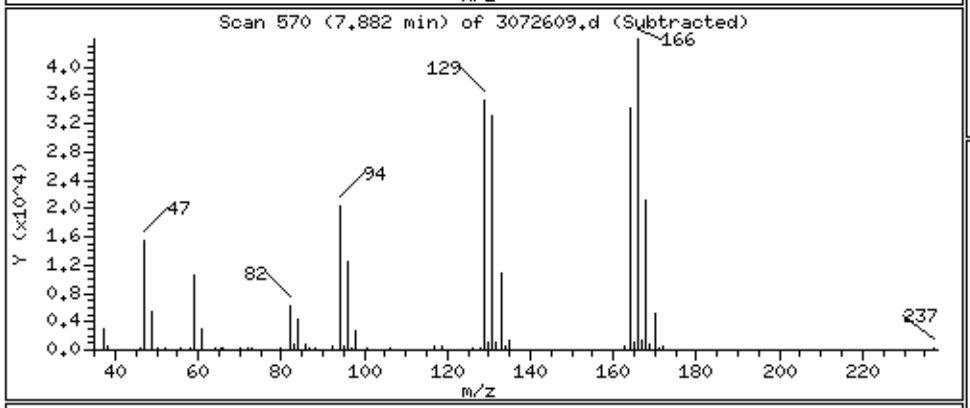
Column diameter: 0.25

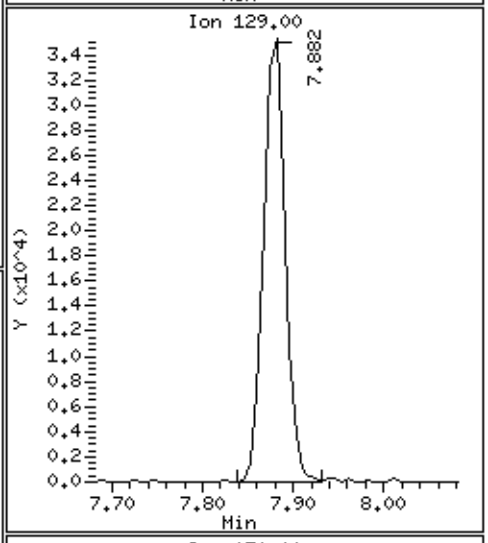
142 Tetrachloroethene

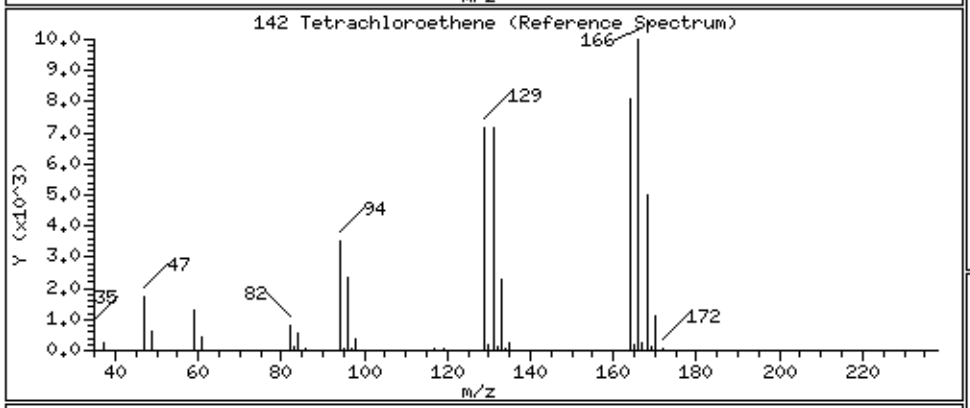
Concentration: 13.605 PPBV

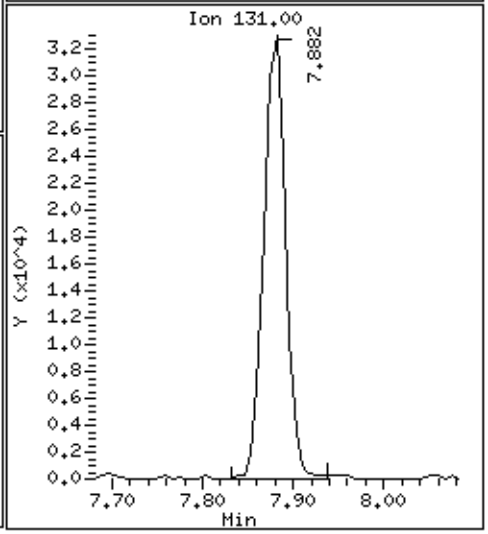


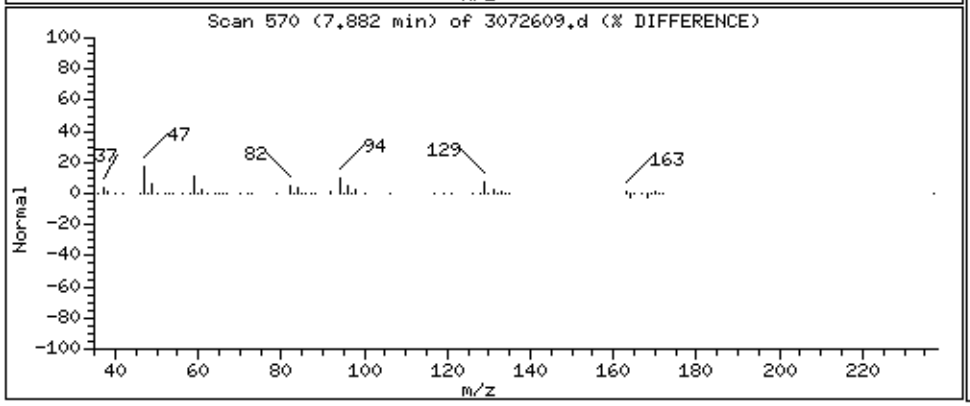












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Client Sample ID: SG-VW56B-02

Lab ID#: 2107284-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3072610**	**Date of Collection:**	**7/14/21 7:42:00 AM**
Dil. Factor:	**2.10**	**Date of Analysis:**	**7/26/21 03:45 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1,2-Tetrachloroethane	4.2	Not Detected	29	Not Detected
1,1,1-Trichloroethane	1.0	Not Detected	5.7	Not Detected
1,1,2,2-Tetrachloroethane	1.0	Not Detected	7.2	Not Detected
1,1,2-Trichloroethane	1.0	Not Detected	5.7	Not Detected
1,1-Dichloroethane	1.0	Not Detected	4.2	Not Detected
1,1-Dichloroethene	1.0	Not Detected	4.2	Not Detected
1,1-Difluoroethane	4.2	Not Detected	11	Not Detected
1,2,3-Trichloropropane	4.2	Not Detected	25	Not Detected
1,2,4-Trichlorobenzene	4.2	Not Detected	31	Not Detected
1,2,4-Trimethylbenzene	1.0	2.5	5.2	12
1,2-Dibromo-3-chloropropane	4.2	Not Detected	40	Not Detected
1,2-Dibromoethane (EDB)	1.0	Not Detected	8.1	Not Detected
1,2-Dichlorobenzene	1.0	Not Detected	6.3	Not Detected
1,2-Dichloroethane	1.0	Not Detected	4.2	Not Detected
1,2-Dichloropropane	1.0	Not Detected	4.8	Not Detected
1,3,5-Trimethylbenzene	1.0	1.3	5.2	6.2
1,3-Butadiene	1.0	Not Detected	2.3	Not Detected
1,3-Dichlorobenzene	1.0	Not Detected	6.3	Not Detected
1,4-Dichlorobenzene	1.0	Not Detected	6.3	Not Detected
1,4-Dioxane	4.2	Not Detected	15	Not Detected
2,2,4-Trimethylpentane	1.0	Not Detected	4.9	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.2	Not Detected	12	Not Detected
2-Hexanone	4.2	Not Detected	17	Not Detected
2-Propanol	4.2	Not Detected	10	Not Detected
3-Chloropropene	4.2	Not Detected	13	Not Detected
4-Ethyltoluene	1.0	1.5	5.2	7.2
4-Methyl-2-pentanone	1.0	Not Detected	4.3	Not Detected
Acetone	10	Not Detected	25	Not Detected
Acrolein	4.2	Not Detected	9.6	Not Detected
Acrylonitrile	4.2	Not Detected	9.1	Not Detected
alpha-Chlorotoluene	1.0	Not Detected	5.4	Not Detected
Benzene	1.0	Not Detected	3.4	Not Detected
Bromodichloromethane	1.0	Not Detected	7.0	Not Detected
Bromoform	1.0	Not Detected	11	Not Detected
Bromomethane	10	Not Detected	41	Not Detected
Carbon Disulfide	4.2	Not Detected	13	Not Detected
Carbon Tetrachloride	1.0	Not Detected	6.6	Not Detected
Chlorobenzene	1.0	Not Detected	4.8	Not Detected
Chloroethane	4.2	Not Detected	11	Not Detected
Chloroform	1.0	Not Detected	5.1	Not Detected
Chloromethane	10	Not Detected	22	Not Detected
cis-1,2-Dichloroethene	1.0	Not Detected	4.2	Not Detected

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Client Sample ID: SG-VW56B-02

Lab ID#: 2107284-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3072610**	**Date of Collection:**	**7/14/21 7:42:00 AM**
Dil. Factor:	**2.10**	**Date of Analysis:**	**7/26/21 03:45 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,3-Dichloropropene	1.0	Not Detected	4.8	Not Detected
Cumene	1.0	Not Detected	5.2	Not Detected
Cyclohexane	1.0	Not Detected	3.6	Not Detected
Dibromochloromethane	1.0	Not Detected	8.9	Not Detected
Dibromomethane	4.2	Not Detected	30	Not Detected
Ethanol	10	Not Detected	20	Not Detected
Ethyl Acetate	4.2	Not Detected	15	Not Detected
Ethyl Benzene	1.0	Not Detected	4.6	Not Detected
Ethyl-tert-butyl ether	4.2	Not Detected	18	Not Detected
Freon 11	1.0	Not Detected	5.9	Not Detected
Freon 12	1.0	Not Detected	5.2	Not Detected
Freon 113	1.0	Not Detected	8.0	Not Detected
Freon 114	1.0	Not Detected	7.3	Not Detected
Freon 134a	4.2	Not Detected	18	Not Detected
Heptane	1.0	Not Detected	4.3	Not Detected
Hexachlorobutadiene	4.2	Not Detected	45	Not Detected
Hexachloroethane	4.2	Not Detected	41	Not Detected
Hexane	1.0	Not Detected	3.7	Not Detected
Iodomethane	10	Not Detected	61	Not Detected
Isopropyl ether	4.2	Not Detected	18	Not Detected
m,p-Xylene	1.0	2.0	4.6	8.6
Methyl tert-butyl ether	4.2	Not Detected	15	Not Detected
Methylene Chloride	10	Not Detected	36	Not Detected
Naphthalene	2.1	2.2	11	11
o-Xylene	1.0	Not Detected	4.6	Not Detected
Propylbenzene	1.0	Not Detected	5.2	Not Detected
Propylene	4.2	Not Detected	7.2	Not Detected
Styrene	1.0	Not Detected	4.5	Not Detected
tert-Amyl methyl ether	4.2	Not Detected	18	Not Detected
tert-Butyl alcohol	4.2	Not Detected	13	Not Detected
Tetrachloroethene	1.0	2.9	7.1	20
Tetrahydrofuran	1.0	Not Detected	3.1	Not Detected
Toluene	1.0	Not Detected	4.0	Not Detected
TPH ref. to Gasoline (MW=100)	100	Not Detected	430	Not Detected
trans-1,2-Dichloroethene	1.0	Not Detected	4.2	Not Detected
trans-1,3-Dichloropropene	1.0	Not Detected	4.8	Not Detected
Trichloroethene	1.0	Not Detected	5.6	Not Detected
Vinyl Acetate	4.2	Not Detected	15	Not Detected
Vinyl Bromide	4.2	Not Detected	18	Not Detected
Vinyl Chloride	1.0	Not Detected	2.7	Not Detected

Container Type: 1 Liter Summa Canister

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Client Sample ID: SG-VW56B-02

Lab ID#: 2107284-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3072610**	**Date of Collection: 7/14/21 7:42:00 AM**	
Dil. Factor:	**2.10**	**Date of Analysis: 7/26/21 03:45 PM**	

Surrogates	%Recovery	Method Limits
Toluene-d8	95	70-130
1,2-Dichloroethane-d4	98	70-130
4-Bromofluorobenzene	95	70-130

US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msd3.i/26JUL21.b/3072610.d
Lab Smp Id: 2107284-02A
Inj Date : 26-JUL-2021 15:45
Operator : LD Inst ID: msd3.i
Smp Info : 200mL F1981
Misc Info : 5.9 Hg->10.1 psi
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msd3.i/26JUL21.b/321q0622a.m
Meth Date : 28-Jul-2021 12:16 uexa Quant Type: ISTD
Cal Date : 23-JUN-2021 00:09 Cal File: 3062223.d
Als bottle: 2
Dil Factor: 2.10000
Integrator: HP RTE Compound Sublist: AEC25677.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE		(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 90 Bromochloromethane							CAS #: 74-97-5	
5.285	5.284 (1.000)	130	253852	25.0000			80.00- 120.00	100.00
5.285	5.284 (1.000)	128	198050				48.46- 108.46	78.02
5.285	5.284 (1.000)	49	356869				120.39- 180.39	140.58
* 108 1,4-Difluorobenzene							CAS #: 540-36-3	
6.180	6.166 (1.000)	114	877954	25.0000			80.00- 120.00	100.00
6.180	6.166 (1.000)	88	129535				0.00- 45.52	14.75
* 153 Chlorobenzene-d5							CAS #: 3114-55-4	
8.612	8.612 (1.000)	117	760464	25.0000			80.00- 120.00	100.00
8.612	8.612 (1.000)	82	394533				25.46- 85.46	51.88
$ 104 1,2-Dichloroethane-d4							CAS #: 17060-07-0	
5.816	5.816 (1.101)	65	341847	24.4705	24.470		80.00- 120.00	100.00
5.816	5.816 (1.101)	67	164271				21.66- 81.66	48.05
$ 134 Toluene-d8							CAS #: 2037-26-5	
7.387	7.387 (1.195)	98	859332	23.7638	23.764		80.00- 120.00	100.00
7.387	7.387 (1.195)	70	97227				0.00- 41.47	11.31

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 134 Toluene-d8 (continued)							
7.387	7.387 (1.195)	100	569499			36.47- 96.47	66.27
$ 170 4-Bromofluorobenzene					CAS #: 460-00-4		
9.601	9.601 (1.115)	174	476080	23.6683	23.668	80.00- 120.00	100.00
9.601	9.601 (1.115)	95	539016			93.06- 153.06	113.22
9.601	9.601 (1.115)	176	444971			62.87- 122.87	93.47
142 Tetrachloroethene					CAS #: 127-18-4		
7.882	7.881 (0.915)	166	16413	1.37768	2.893	80.00- 120.00	100.00
7.882	7.881 (0.915)	129	12728			48.71- 108.71	77.54
7.882	7.881 (0.915)	131	12564			46.55- 106.55	76.55
158 m,p-Xylene					CAS #: 108-38-3		
8.784	8.784 (1.020)	106	12224	0.94542	1.985	80.00- 120.00	100.00
8.784	8.784 (1.020)	91	23335			171.36- 231.36	190.90
183 4-Ethyltoluene					CAS #: 622-96-8		
9.830	9.851 (1.141)	120	8217	0.70007	1.470	80.00- 120.00	100.00
9.830	9.851 (1.141)	105	27580			296.79- 356.79	335.64
185 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
9.902	9.901 (1.150)	120	9975	0.60507	1.271	80.00- 120.00	100.00
9.902	9.901 (1.150)	105	19637			176.40- 236.40	196.86
190 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
10.224	10.224 (1.187)	105	38904	1.19676	2.513	80.00- 120.00	100.00
10.224	10.224 (1.187)	120	18502			16.58- 76.58	47.56
216 Naphthalene					CAS #: 91-20-3		
12.552	12.559 (1.457)	128	47809	1.03283	2.169	80.00- 120.00	100.00
12.552	12.559 (1.457)	127	6104			0.00- 43.10	12.77

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd3.i
Lab File ID: 3072610.d
Lab Smp Id: 2107284-02A
Analysis Type: VOA
Quant Type: ISTD
Operator: LD
Method File: /chem/msd3.i/26JUL21.b/321q0622a.m
Misc Info: 5.9 Hg->10.1 psi

Calibration Date: 26-JUL-2021
Calibration Time: 10:10
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	263983	158390	369576	253852	-3.84
108 1,4-Difluorobenze	833448	500069	1166827	877954	5.34
153 Chlorobenzene-d5	741338	444803	1037873	760464	2.58

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.28	4.95	5.61	5.28	0.00
108 1,4-Difluorobenze	6.17	5.84	6.50	6.18	0.23
153 Chlorobenzene-d5	8.61	8.28	8.94	8.61	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 28-Jul-2021 12:22

US32TAR1

RECOVERY REPORT

Client Name: Client SDG: 26JUL21
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 2107284-02A
Level: LOW Operator: LD
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT20_new.spk Quant Type: ISTD
Sublist File: AEC25677.sub
Method File: /chem/msd3.i/26JUL21.b/321q0622a.m
Misc Info: 5.9 Hg->10.1 psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 104 1,2-Dichloroethan	25.000	24.470	97.88	70-130
$ 134 Toluene-d8	25.000	23.764	95.06	70-130
$ 170 4-Bromofluorobenz	25.000	23.668	94.67	70-130

Data File: /chem/msd3.i/26JUL21.b/3072610.d

Date : 26-JUL-2021 15:45

Client ID:

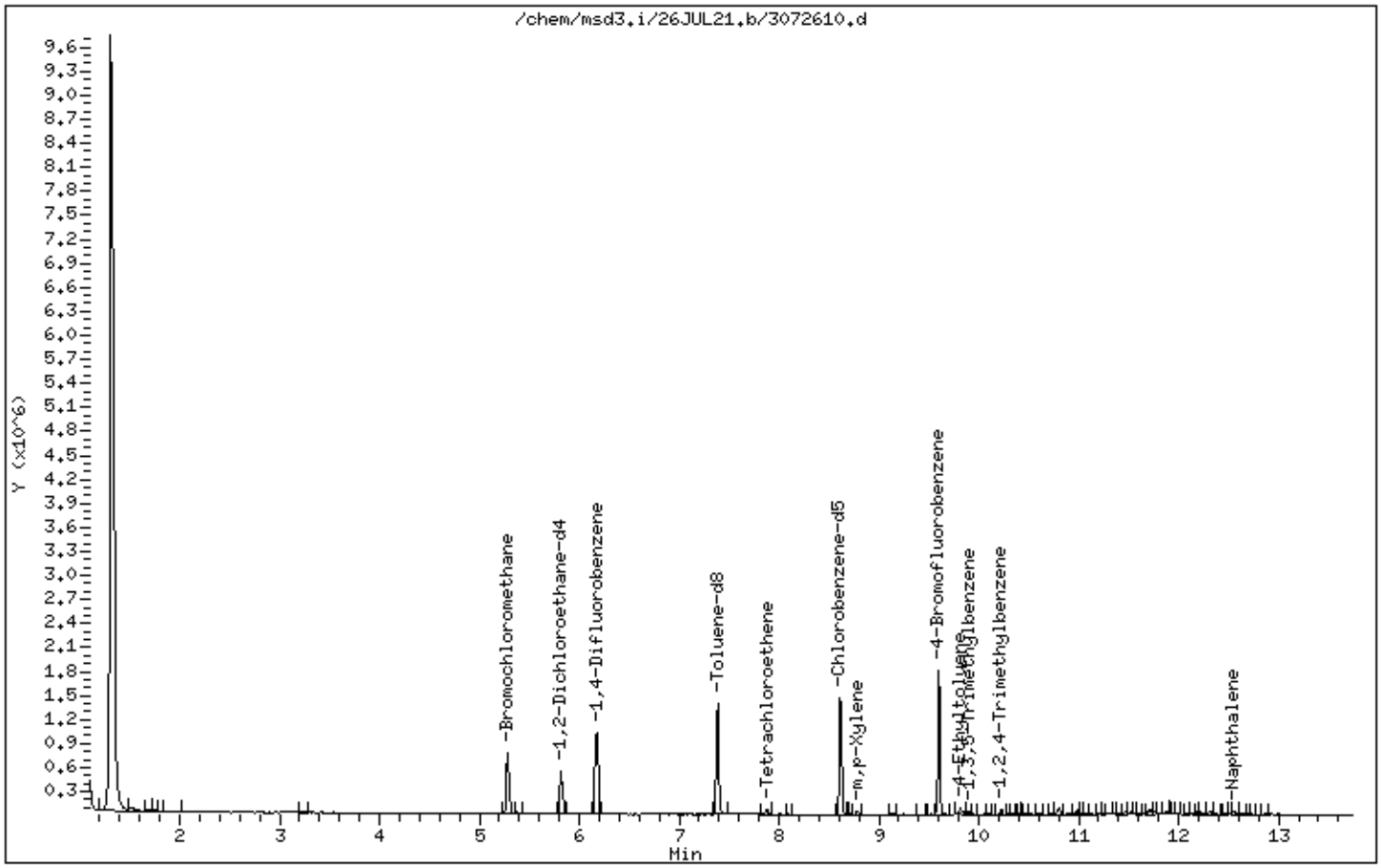
Instrument: msd3.i

Sample Info: 200mL F1981

Operator: LD

Column phase: RTX-624

Column diameter: 0.25



Data File: /chem/msd3.i/26JUL21.b/3072610.d

Date : 26-JUL-2021 15:45

Client ID:

Instrument: msd3.i

Sample Info: 200mL F1981

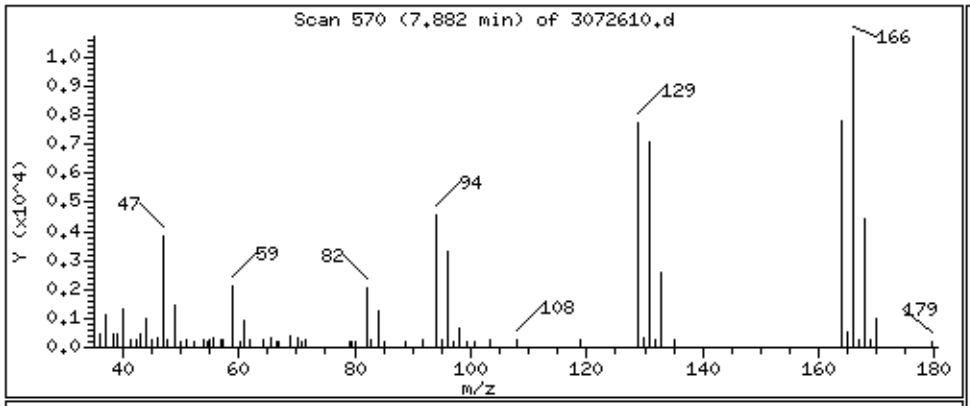
Operator: LD

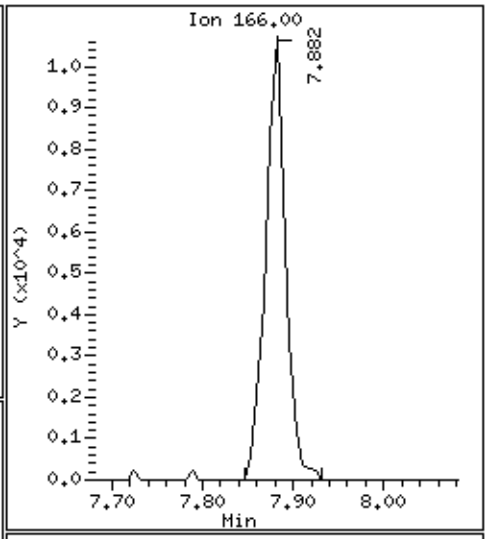
Column phase: RTX-624

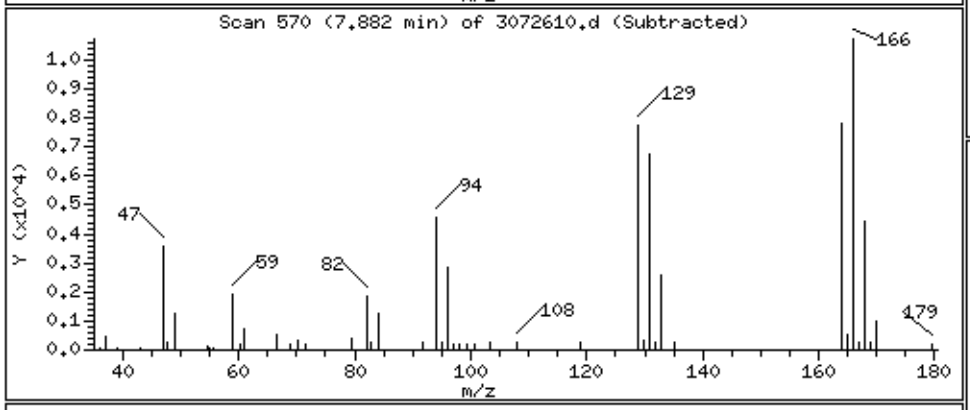
Column diameter: 0.25

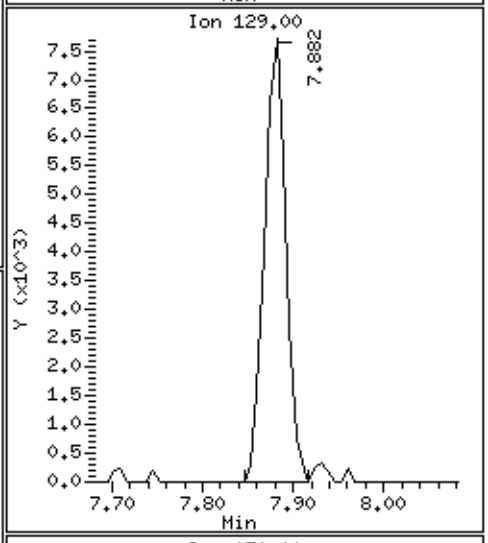
142 Tetrachloroethene

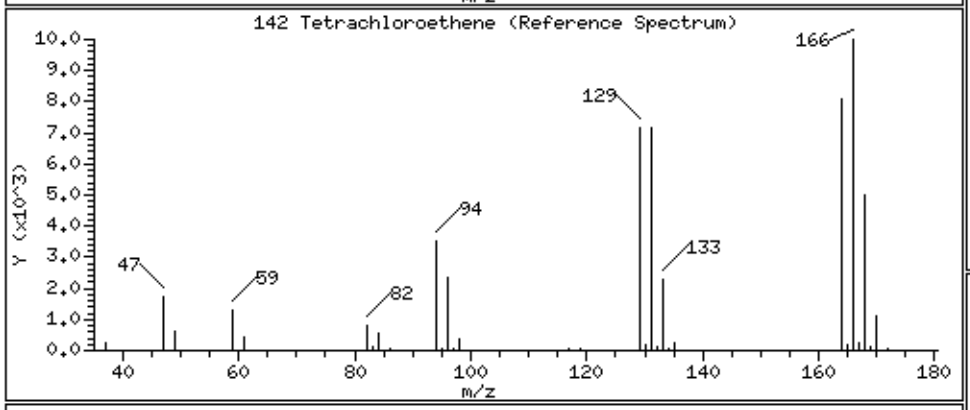
Concentration: 2.893 PPBV

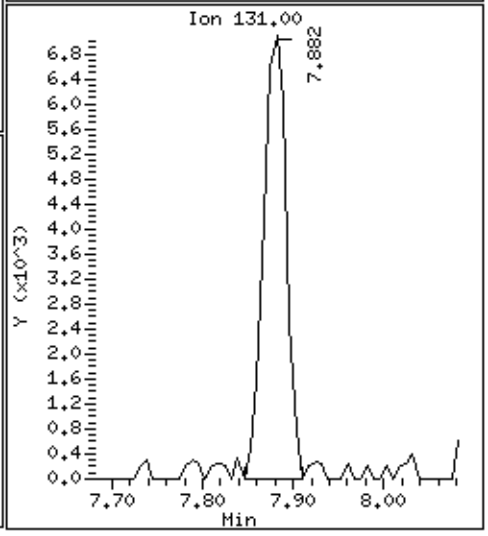


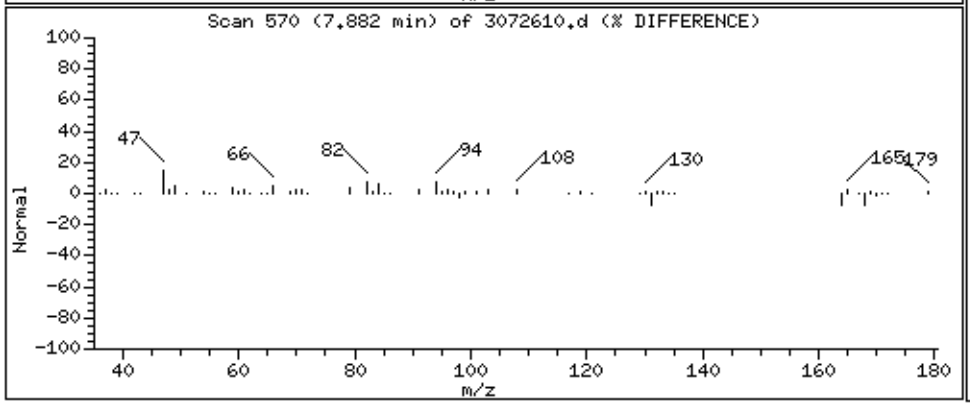












Data File: /chem/msd3.i/26JUL21.b/3072610.d

Date : 26-JUL-2021 15:45

Client ID:

Instrument: msd3.i

Sample Info: 200mL F1981

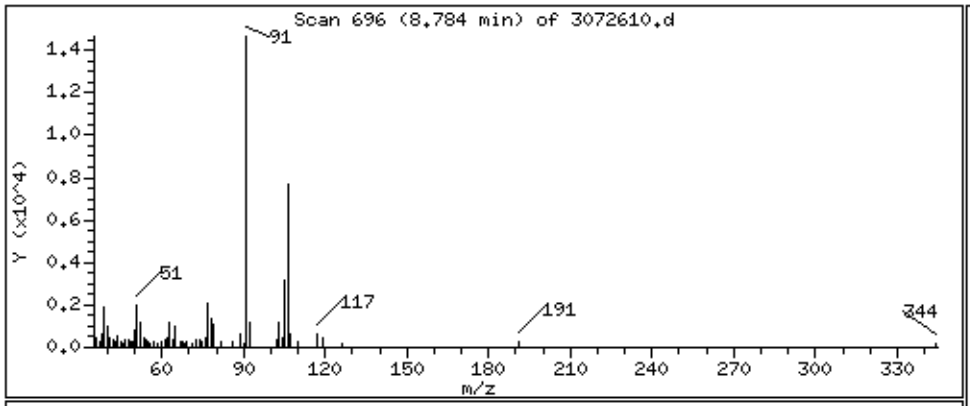
Operator: LD

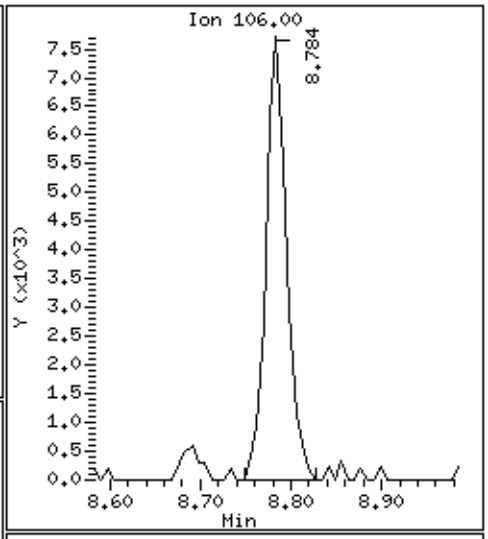
Column phase: RTX-624

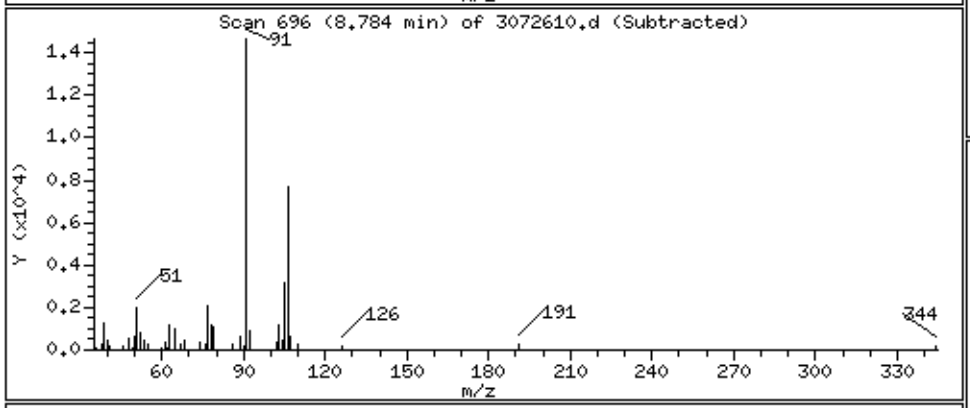
Column diameter: 0.25

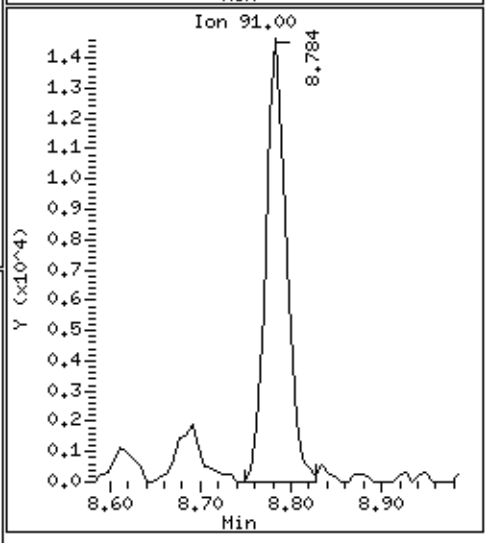
158 m,p-Xylene

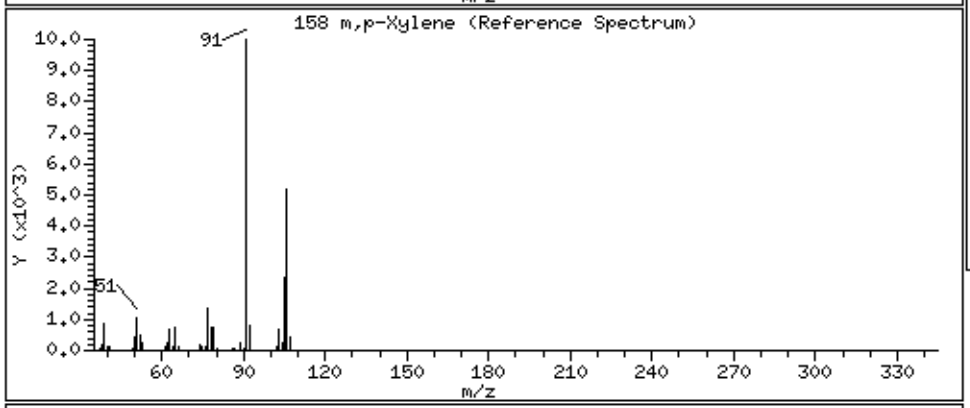
Concentration: 1.985 PPBV

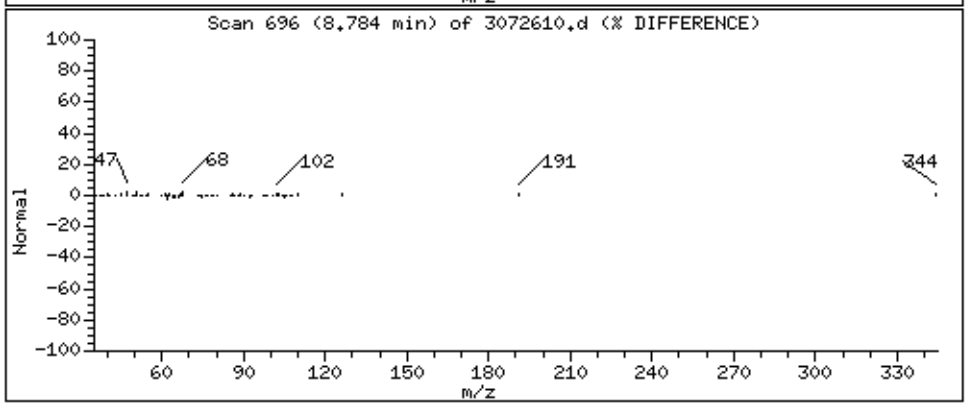












Data File: /chem/msd3.i/26JUL21.b/3072610.d

Date : 26-JUL-2021 15:45

Client ID:

Instrument: msd3.i

Sample Info: 200mL F1981

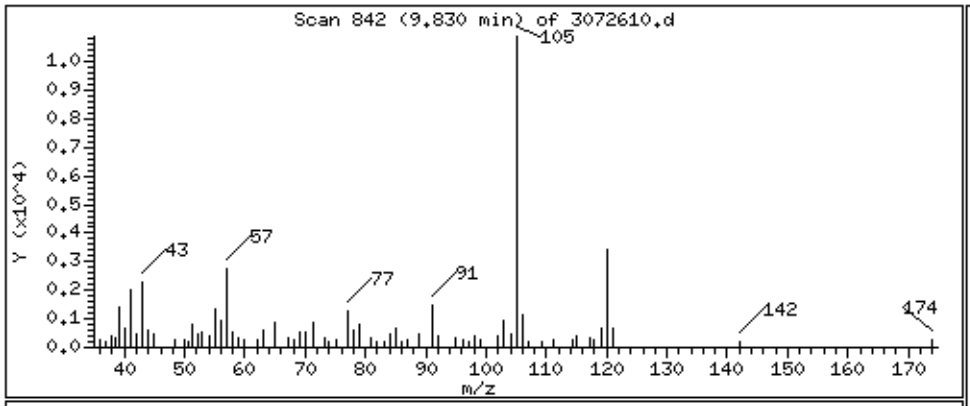
Operator: LD

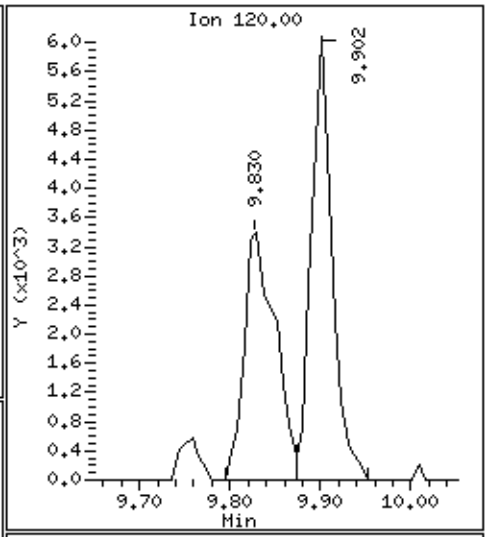
Column phase: RTX-624

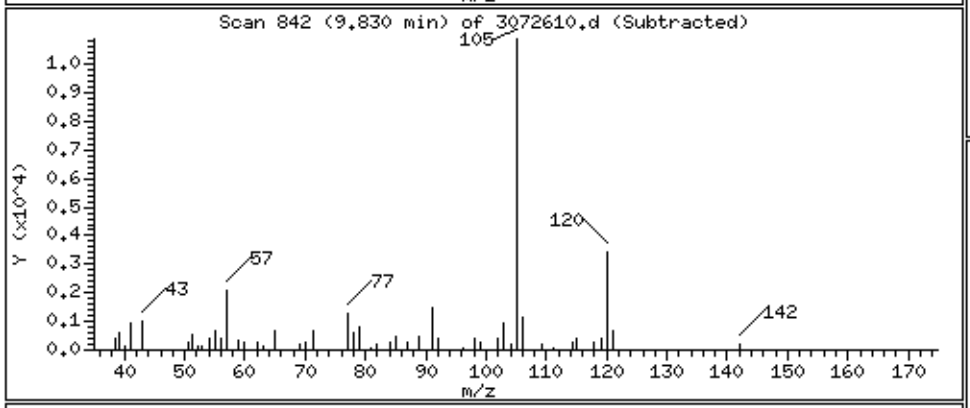
Column diameter: 0.25

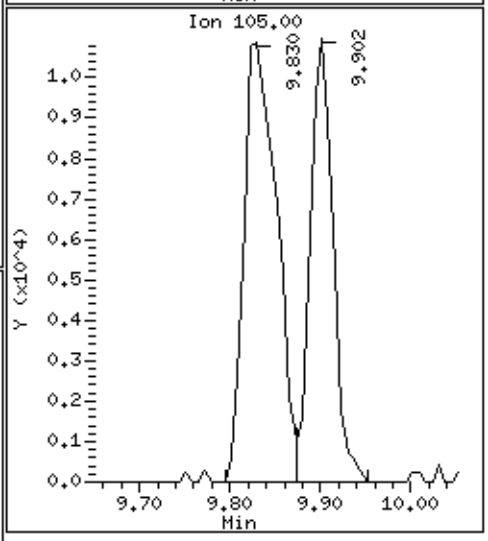
183 4-Ethyltoluene

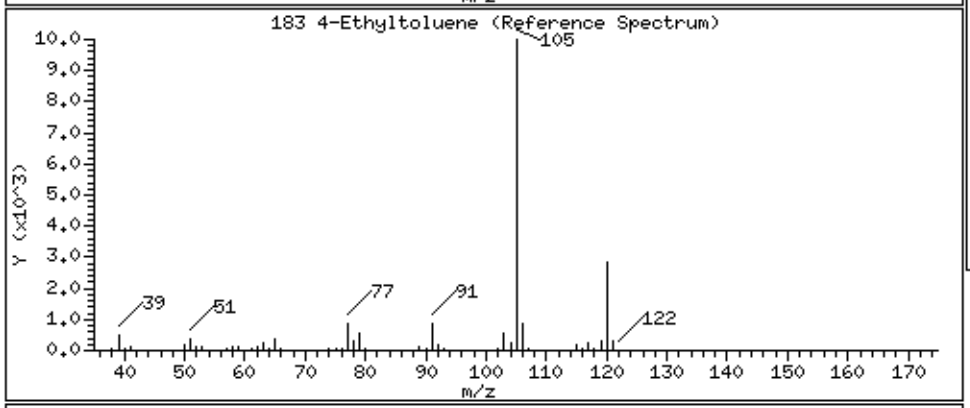
Concentration: 1.470 PPBV

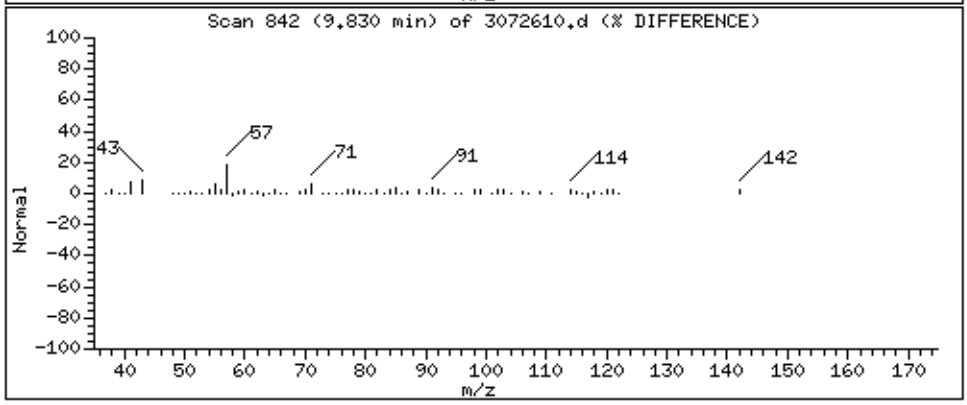












Data File: /chem/msd3.i/26JUL21.b/3072610.d

Date : 26-JUL-2021 15:45

Client ID:

Instrument: msd3.i

Sample Info: 200mL F1981

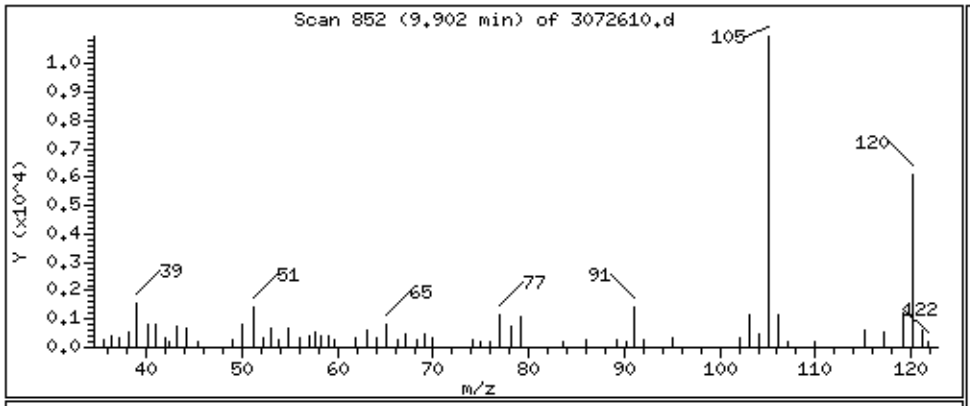
Operator: LD

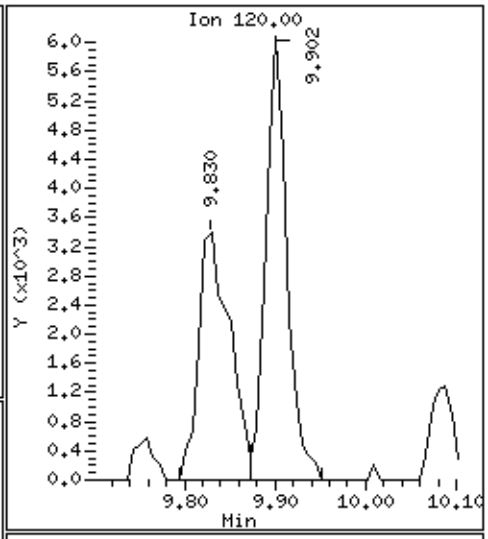
Column phase: RTX-624

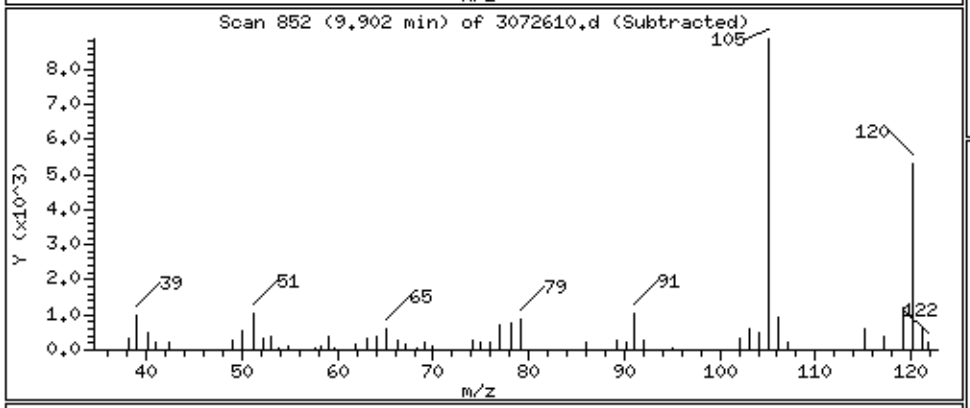
Column diameter: 0.25

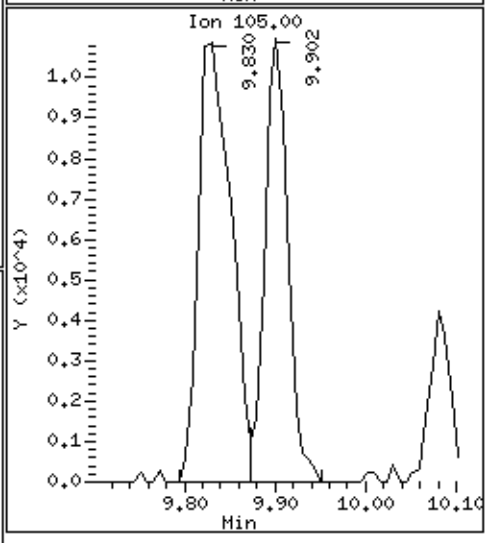
185 1,3,5-Trimethylbenzene

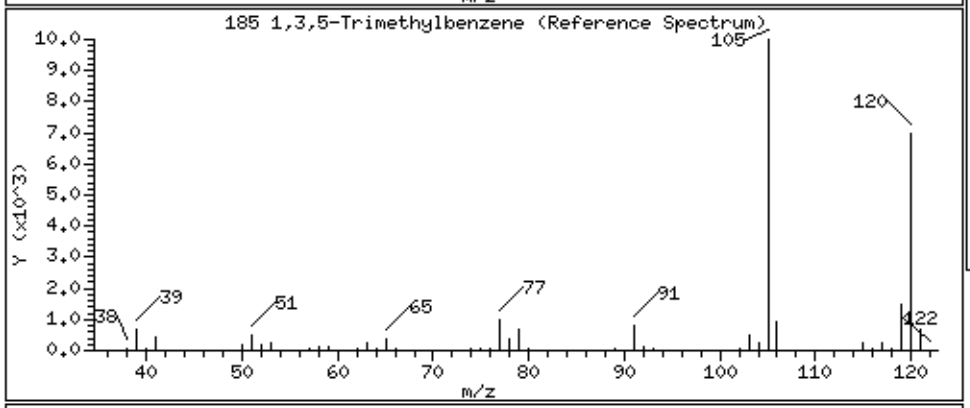
Concentration: 1.271 PPBV

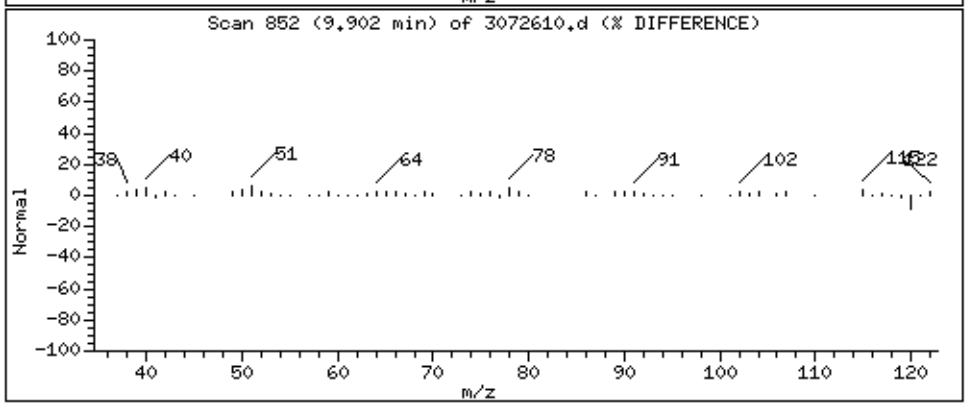












Data File: /chem/msd3.i/26JUL21.b/3072610.d

Date : 26-JUL-2021 15:45

Client ID:

Instrument: msd3.i

Sample Info: 200mL F1981

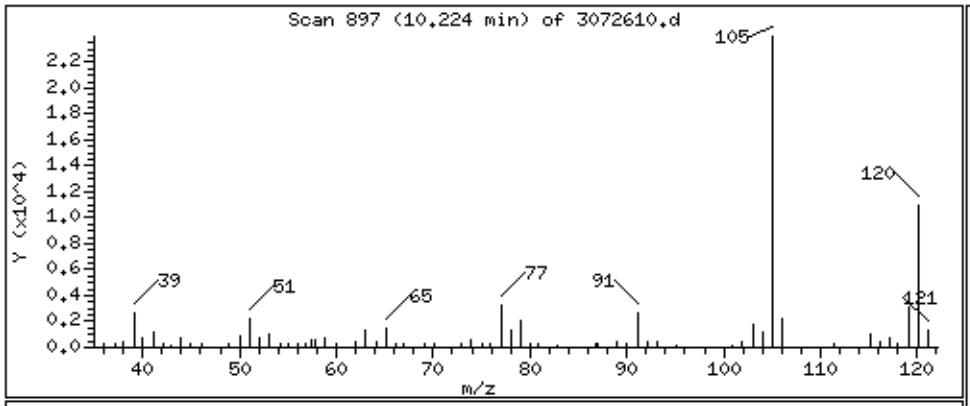
Operator: LD

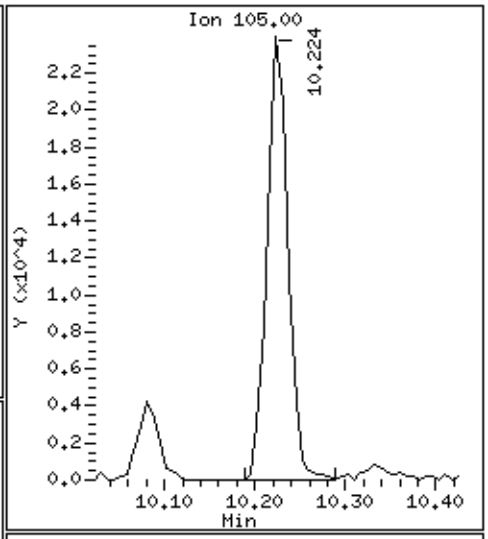
Column phase: RTX-624

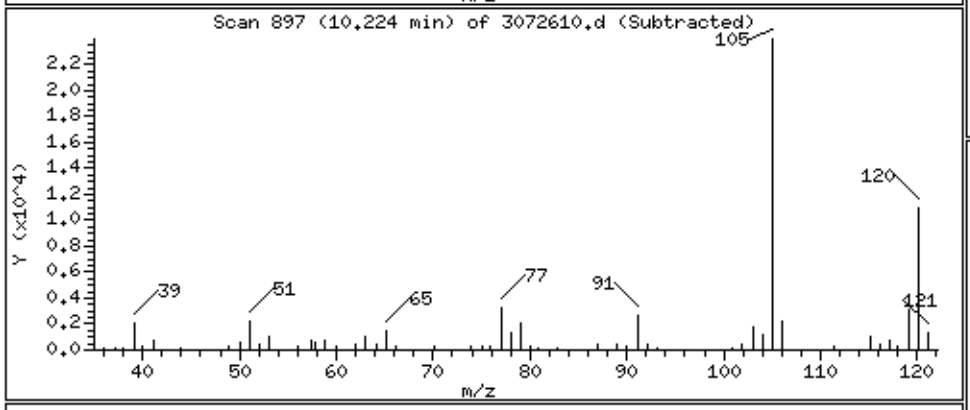
Column diameter: 0.25

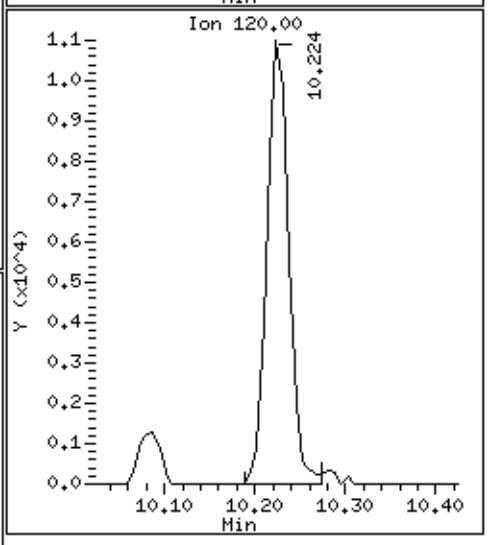
190 1,2,4-Trimethylbenzene

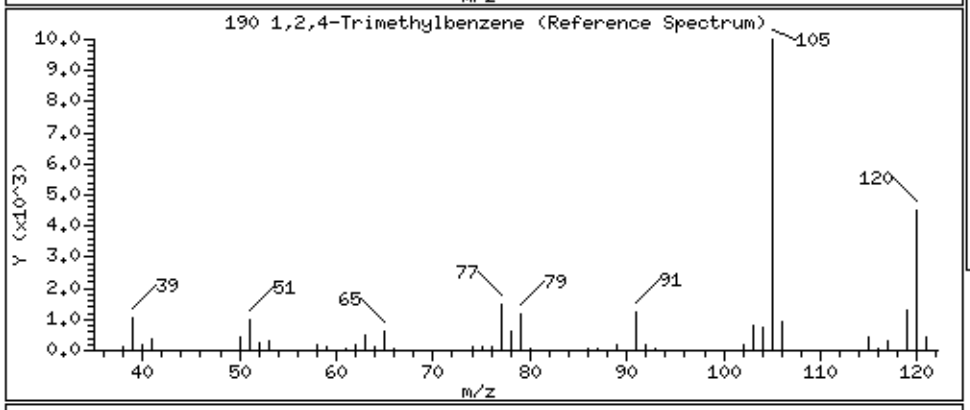
Concentration: 2.513 PPBV

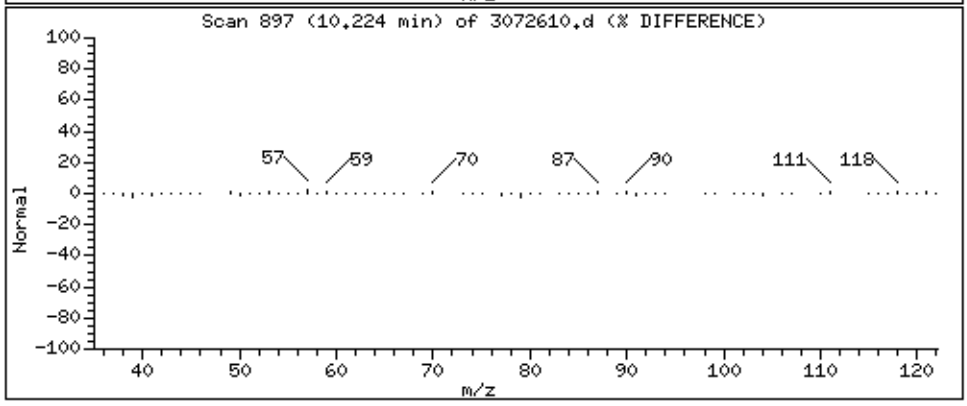












Data File: /chem/msd3.i/26JUL21.b/3072610.d

Date : 26-JUL-2021 15:45

Client ID:

Instrument: msd3.i

Sample Info: 200mL F1981

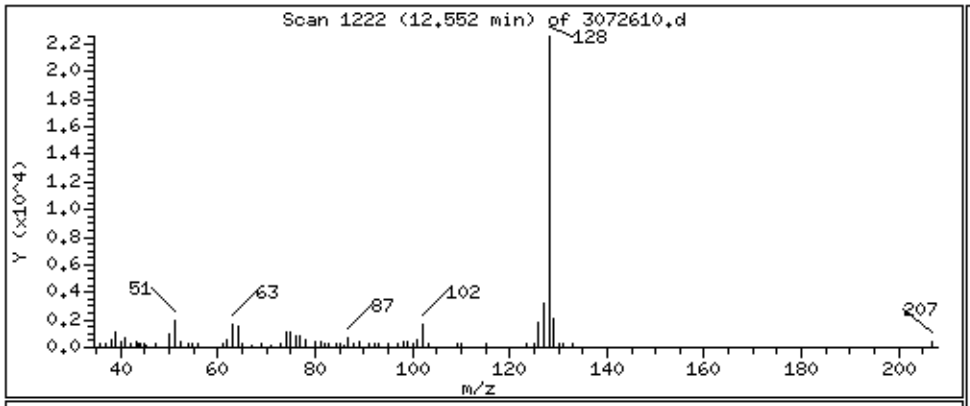
Operator: LD

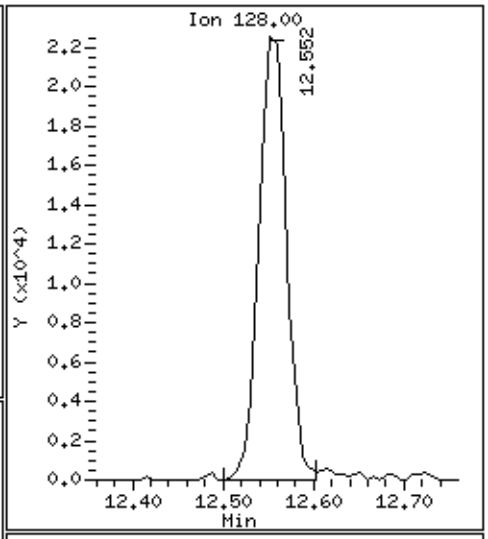
Column phase: RTX-624

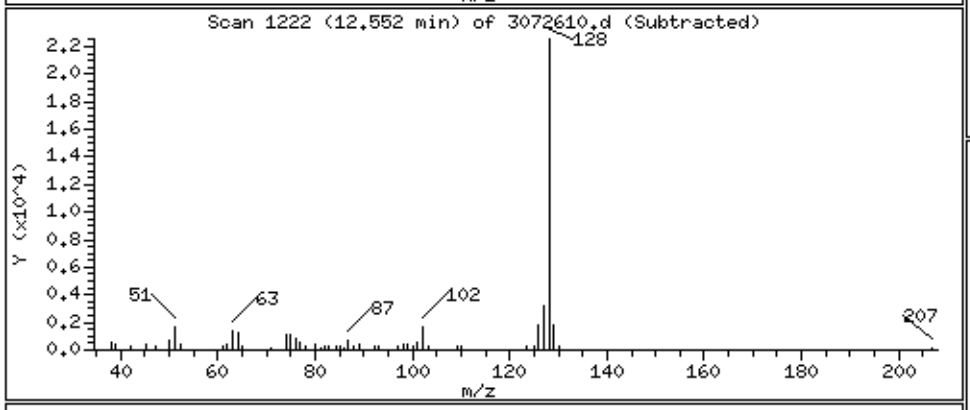
Column diameter: 0.25

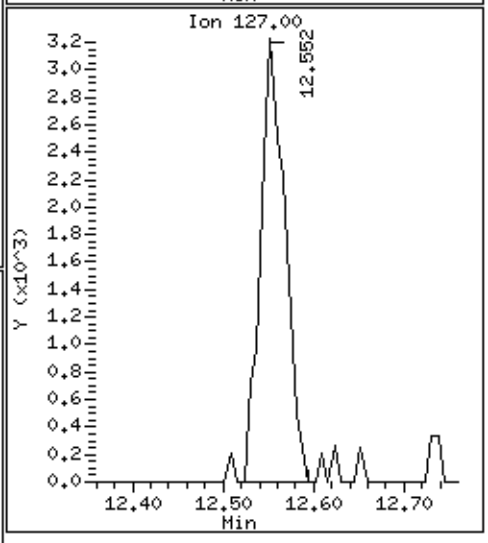
216 Naphthalene

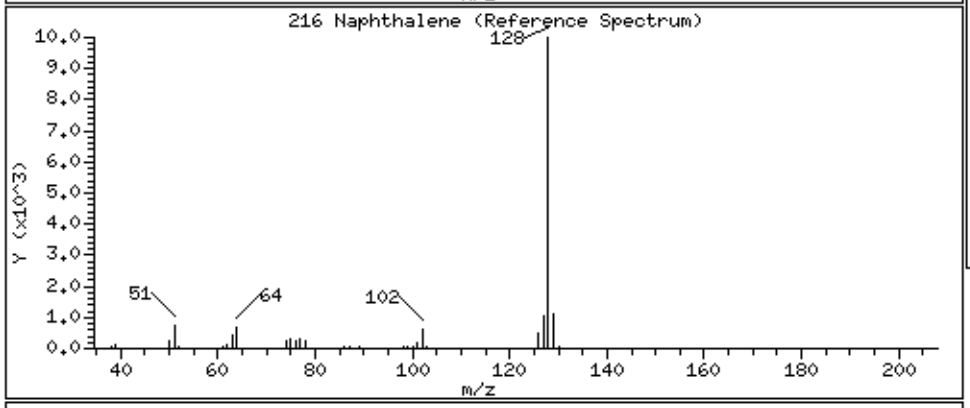
Concentration: 2.169 PPBV

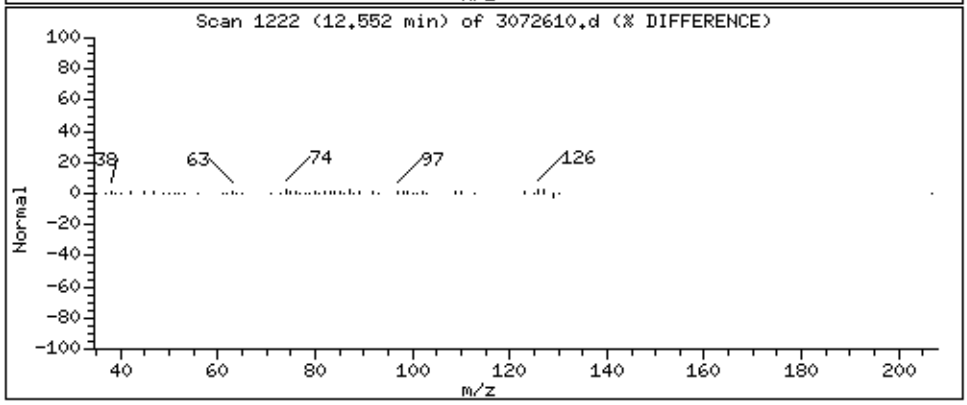












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Client Sample ID: SG-VW56A-02

Lab ID#: 2107284-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3072611**	**Date of Collection: 7/14/21 8:13:00 AM**	
Dil. Factor:	**2.11**	**Date of Analysis: 7/26/21 04:14 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1,2-Tetrachloroethane	4.2	Not Detected	29	Not Detected
1,1,1-Trichloroethane	1.0	Not Detected	5.8	Not Detected
1,1,2,2-Tetrachloroethane	1.0	Not Detected	7.2	Not Detected
1,1,2-Trichloroethane	1.0	Not Detected	5.8	Not Detected
1,1-Dichloroethane	1.0	Not Detected	4.3	Not Detected
1,1-Dichloroethene	1.0	Not Detected	4.2	Not Detected
1,1-Difluoroethane	4.2	Not Detected	11	Not Detected
1,2,3-Trichloropropane	4.2	Not Detected	25	Not Detected
1,2,4-Trichlorobenzene	4.2	Not Detected	31	Not Detected
1,2,4-Trimethylbenzene	1.0	Not Detected	5.2	Not Detected
1,2-Dibromo-3-chloropropane	4.2	Not Detected	41	Not Detected
1,2-Dibromoethane (EDB)	1.0	Not Detected	8.1	Not Detected
1,2-Dichlorobenzene	1.0	Not Detected	6.3	Not Detected
1,2-Dichloroethane	1.0	Not Detected	4.3	Not Detected
1,2-Dichloropropane	1.0	Not Detected	4.9	Not Detected
1,3,5-Trimethylbenzene	1.0	Not Detected	5.2	Not Detected
1,3-Butadiene	1.0	Not Detected	2.3	Not Detected
1,3-Dichlorobenzene	1.0	Not Detected	6.3	Not Detected
1,4-Dichlorobenzene	1.0	Not Detected	6.3	Not Detected
1,4-Dioxane	4.2	Not Detected	15	Not Detected
2,2,4-Trimethylpentane	1.0	Not Detected	4.9	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.2	Not Detected	12	Not Detected
2-Hexanone	4.2	Not Detected	17	Not Detected
2-Propanol	4.2	Not Detected	10	Not Detected
3-Chloropropene	4.2	Not Detected	13	Not Detected
4-Ethyltoluene	1.0	Not Detected	5.2	Not Detected
4-Methyl-2-pentanone	1.0	Not Detected	4.3	Not Detected
Acetone	10	Not Detected	25	Not Detected
Acrolein	4.2	Not Detected	9.7	Not Detected
Acrylonitrile	4.2	Not Detected	9.2	Not Detected
alpha-Chlorotoluene	1.0	Not Detected	5.5	Not Detected
Benzene	1.0	Not Detected	3.4	Not Detected
Bromodichloromethane	1.0	Not Detected	7.1	Not Detected
Bromoform	1.0	Not Detected	11	Not Detected
Bromomethane	10	Not Detected	41	Not Detected
Carbon Disulfide	4.2	Not Detected	13	Not Detected
Carbon Tetrachloride	1.0	Not Detected	6.6	Not Detected
Chlorobenzene	1.0	Not Detected	4.8	Not Detected
Chloroethane	4.2	Not Detected	11	Not Detected
Chloroform	1.0	Not Detected	5.2	Not Detected
Chloromethane	10	Not Detected	22	Not Detected
cis-1,2-Dichloroethene	1.0	Not Detected	4.2	Not Detected

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Client Sample ID: SG-VW56A-02

Lab ID#: 2107284-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3072611**	**Date of Collection:**	**7/14/21 8:13:00 AM**
Dil. Factor:	**2.11**	**Date of Analysis:**	**7/26/21 04:14 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,3-Dichloropropene	1.0	Not Detected	4.8	Not Detected
Cumene	1.0	Not Detected	5.2	Not Detected
Cyclohexane	1.0	Not Detected	3.6	Not Detected
Dibromochloromethane	1.0	Not Detected	9.0	Not Detected
Dibromomethane	4.2	Not Detected	30	Not Detected
Ethanol	10	Not Detected	20	Not Detected
Ethyl Acetate	4.2	Not Detected	15	Not Detected
Ethyl Benzene	1.0	Not Detected	4.6	Not Detected
Ethyl-tert-butyl ether	4.2	Not Detected	18	Not Detected
Freon 11	1.0	Not Detected	5.9	Not Detected
Freon 12	1.0	Not Detected	5.2	Not Detected
Freon 113	1.0	Not Detected	8.1	Not Detected
Freon 114	1.0	Not Detected	7.4	Not Detected
Freon 134a	4.2	Not Detected	18	Not Detected
Heptane	1.0	Not Detected	4.3	Not Detected
Hexachlorobutadiene	4.2	Not Detected	45	Not Detected
Hexachloroethane	4.2	Not Detected	41	Not Detected
Hexane	1.0	Not Detected	3.7	Not Detected
Iodomethane	10	Not Detected	61	Not Detected
Isopropyl ether	4.2	Not Detected	18	Not Detected
m,p-Xylene	1.0	Not Detected	4.6	Not Detected
Methyl tert-butyl ether	4.2	Not Detected	15	Not Detected
Methylene Chloride	10	Not Detected	37	Not Detected
Naphthalene	2.1	Not Detected	11	Not Detected
o-Xylene	1.0	Not Detected	4.6	Not Detected
Propylbenzene	1.0	Not Detected	5.2	Not Detected
Propylene	4.2	Not Detected	7.3	Not Detected
Styrene	1.0	Not Detected	4.5	Not Detected
tert-Amyl methyl ether	4.2	Not Detected	18	Not Detected
tert-Butyl alcohol	4.2	Not Detected	13	Not Detected
Tetrachloroethene	1.0	4.5	7.2	31
Tetrahydrofuran	1.0	Not Detected	3.1	Not Detected
Toluene	1.0	Not Detected	4.0	Not Detected
TPH ref. to Gasoline (MW=100)	100	Not Detected	430	Not Detected
trans-1,2-Dichloroethene	1.0	Not Detected	4.2	Not Detected
trans-1,3-Dichloropropene	1.0	Not Detected	4.8	Not Detected
Trichloroethene	1.0	Not Detected	5.7	Not Detected
Vinyl Acetate	4.2	Not Detected	15	Not Detected
Vinyl Bromide	4.2	Not Detected	18	Not Detected
Vinyl Chloride	1.0	Not Detected	2.7	Not Detected

Container Type: 1 Liter Summa Canister

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Client Sample ID: SG-VW56A-02

Lab ID#: 2107284-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3072611**	**Date of Collection:**	**7/14/21 8:13:00 AM**
Dil. Factor:	**2.11**	**Date of Analysis:**	**7/26/21 04:14 PM**

Surrogates	%Recovery	Method Limits
Toluene-d8	95	70-130
1,2-Dichloroethane-d4	91	70-130
4-Bromofluorobenzene	95	70-130

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EPA TO-15/MODIFIED TO14A

Data file : /chem/msd3.i/26JUL21.b/3072611.d
Lab Smp Id: 2107284-03A
Inj Date : 26-JUL-2021 16:14
Operator : LD Inst ID: msd3.i
Smp Info : 200mL N3412
Misc Info : 6.3 Hg->9.8 psi
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msd3.i/26JUL21.b/321q0622a.m
Meth Date : 28-Jul-2021 12:16 uexa Quant Type: ISTD
Cal Date : 23-JUN-2021 00:09 Cal File: 3062223.d
Als bottle: 3
Dil Factor: 2.11000
Integrator: HP RTE Compound Sublist: AEC25677.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE		(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 90 Bromochloromethane							CAS #: 74-97-5	
5.284	5.284 (1.000)	130	263761	25.0000			80.00- 120.00	100.00
5.284	5.284 (1.000)	128	202740				48.46- 108.46	76.86
5.284	5.284 (1.000)	49	360829				120.39- 180.39	136.80
* 108 1,4-Difluorobenzene							CAS #: 540-36-3	
6.180	6.166 (1.000)	114	826121	25.0000			80.00- 120.00	100.00
6.180	6.166 (1.000)	88	121439				0.00- 45.52	14.70
* 153 Chlorobenzene-d5							CAS #: 3114-55-4	
8.619	8.612 (1.000)	117	736783	25.0000			80.00- 120.00	100.00
8.619	8.612 (1.000)	82	382952				25.46- 85.46	51.98
$ 104 1,2-Dichloroethane-d4							CAS #: 17060-07-0	
5.816	5.816 (1.101)	65	331649	22.8486	22.849		80.00- 120.00	100.00
5.816	5.816 (1.101)	67	161385				21.66- 81.66	48.66
$ 134 Toluene-d8							CAS #: 2037-26-5	
7.387	7.387 (1.195)	98	810195	23.8107	23.811		80.00- 120.00	100.00
7.387	7.387 (1.195)	70	90083				0.00- 41.47	11.12

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 134 Toluene-d8 (continued)							
7.387	7.387 (1.195)	100	532264			36.47- 96.47	65.70
$ 170 4-Bromofluorobenzene					CAS #: 460-00-4		
9.601	9.601 (1.114)	174	461930	23.7030	23.703	80.00- 120.00	100.00
9.601	9.601 (1.114)	95	517023			93.06- 153.06	111.93
9.601	9.601 (1.114)	176	423584			62.87- 122.87	91.70
142 Tetrachloroethene					CAS #: 127-18-4		
7.881	7.881 (0.914)	166	24745	2.14381	4.523	80.00- 120.00	100.00
7.881	7.881 (0.914)	129	19791			48.71- 108.71	79.98
7.881	7.881 (0.914)	131	19111			46.55- 106.55	77.23

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd3.i
Lab File ID: 3072611.d
Lab Smp Id: 2107284-03A
Analysis Type: VOA
Quant Type: ISTD
Operator: LD
Method File: /chem/msd3.i/26JUL21.b/321q0622a.m
Misc Info: 6.3 Hg->9.8 psi

Calibration Date: 26-JUL-2021
Calibration Time: 10:10
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	263983	158390	369576	263761	-0.08
108 1,4-Difluorobenze	833448	500069	1166827	826121	-0.88
153 Chlorobenzene-d5	741338	444803	1037873	736783	-0.61

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.28	4.95	5.61	5.28	-0.00
108 1,4-Difluorobenze	6.17	5.84	6.50	6.18	0.23
153 Chlorobenzene-d5	8.61	8.28	8.94	8.62	0.08

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 28-Jul-2021 12:22

US32TAR1

RECOVERY REPORT

Client Name: Client SDG: 26JUL21
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 2107284-03A
Level: LOW Operator: LD
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT20_new.spk Quant Type: ISTD
Sublist File: AEC25677.sub
Method File: /chem/msd3.i/26JUL21.b/321q0622a.m
Misc Info: 6.3 Hg->9.8 psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 104 1,2-Dichloroethan	25.000	22.849	91.39	70-130
$ 134 Toluene-d8	25.000	23.811	95.24	70-130
$ 170 4-Bromofluorobenz	25.000	23.703	94.81	70-130

Data File: /chem/msd3.i/26JUL21.b/3072611.d

Date : 26-JUL-2021 16:14

Client ID:

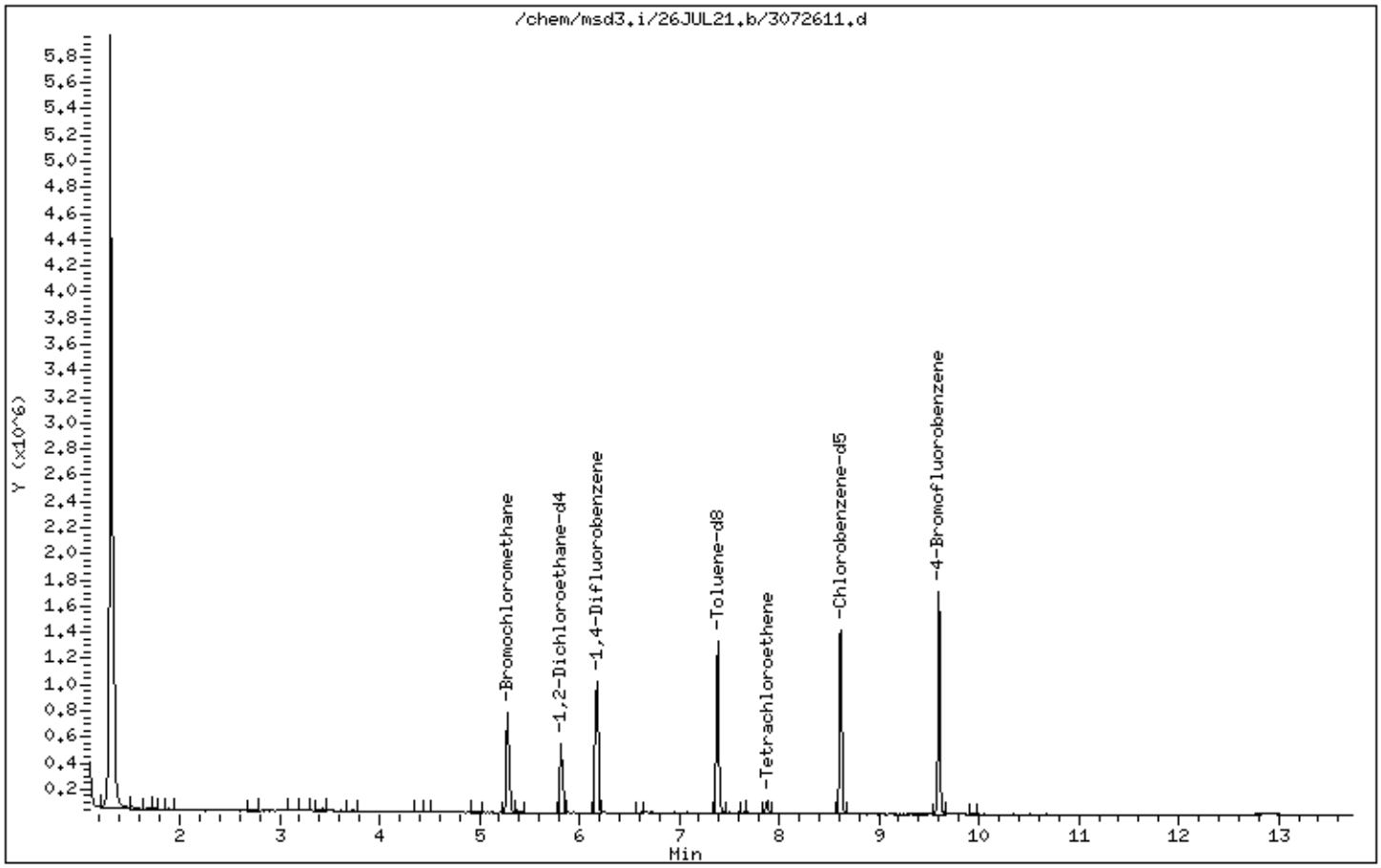
Instrument: msd3.i

Sample Info: 200mL N3412

Operator: LD

Column phase: RTX-624

Column diameter: 0.25



Data File: /chem/msd3.i/26JUL21.b/3072611.d

Date : 26-JUL-2021 16:14

Client ID:

Instrument: msd3.i

Sample Info: 200mL N3412

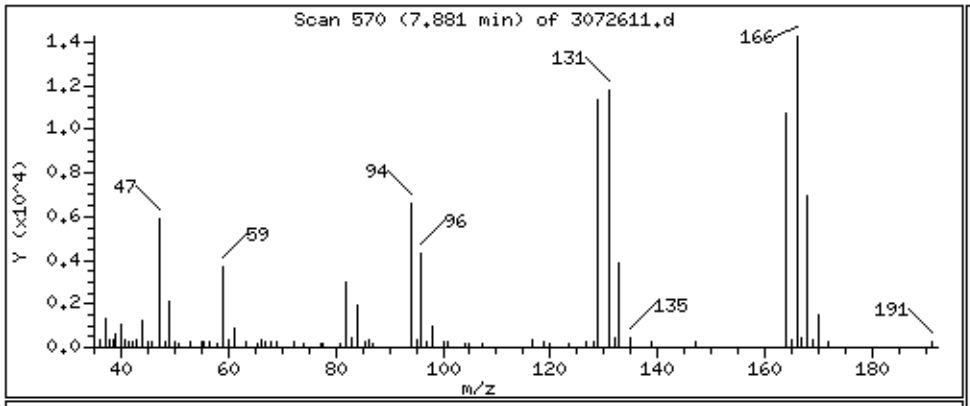
Operator: LD

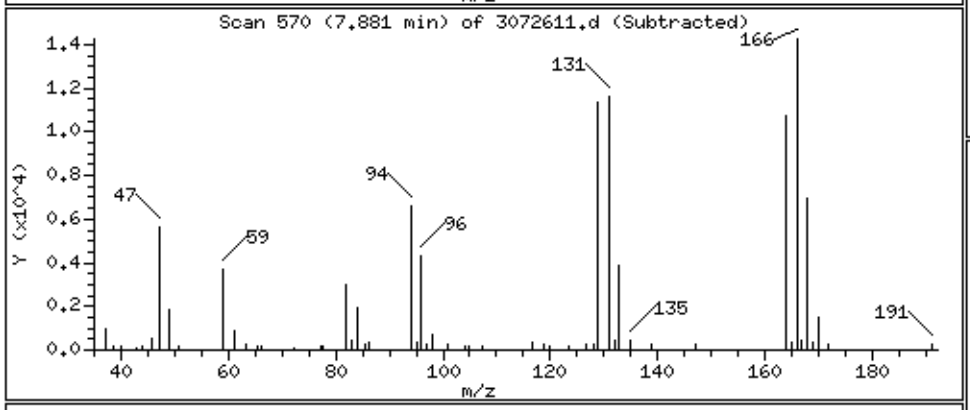
Column phase: RTX-624

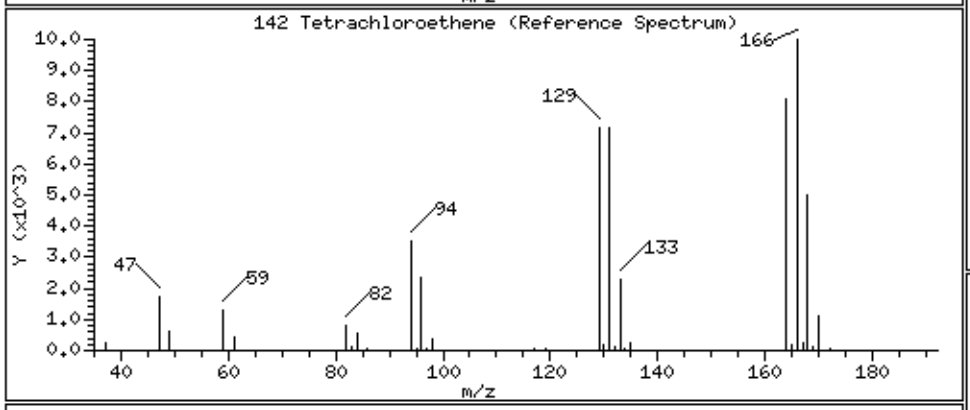
Column diameter: 0.25

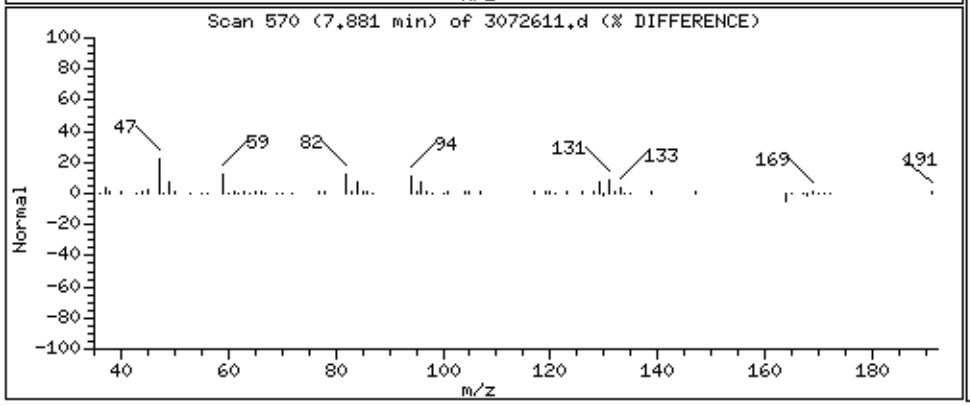
142 Tetrachloroethene

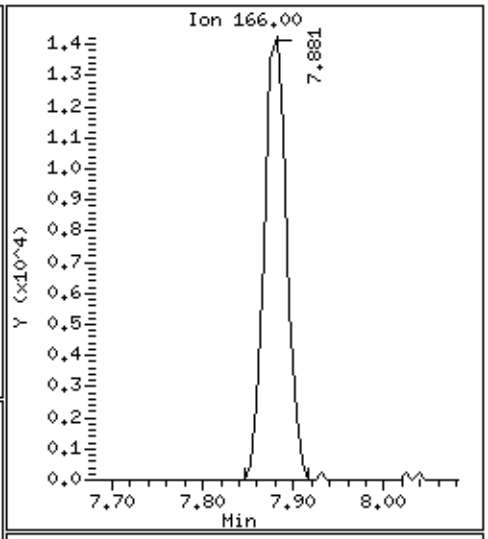
Concentration: 4.523 PPBV

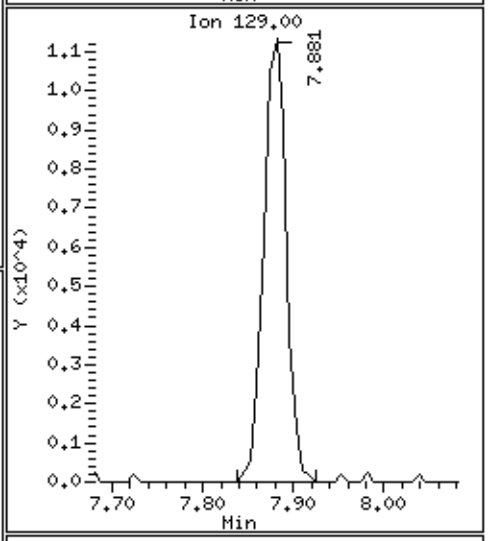


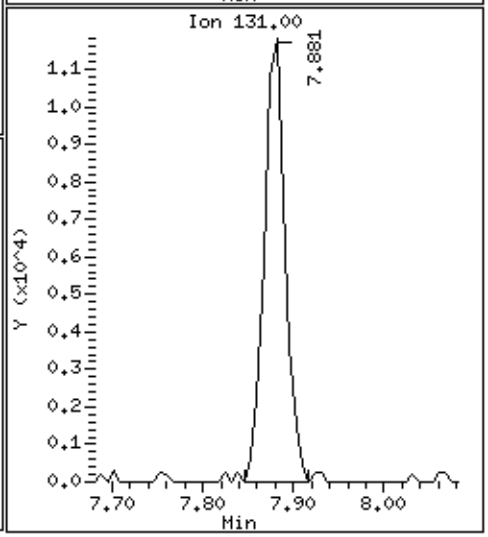












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Client Sample ID: SG-VW39B-02

Lab ID#: 2107284-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3072612**	**Date of Collection:**	**7/14/21 8:41:00 AM**
Dil. Factor:	**2.27**	**Date of Analysis:**	**7/26/21 04:43 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1,2-Tetrachloroethane	4.5	Not Detected	31	Not Detected
1,1,1-Trichloroethane	1.1	Not Detected	6.2	Not Detected
1,1,2,2-Tetrachloroethane	1.1	Not Detected	7.8	Not Detected
1,1,2-Trichloroethane	1.1	Not Detected	6.2	Not Detected
1,1-Dichloroethane	1.1	Not Detected	4.6	Not Detected
1,1-Dichloroethene	1.1	Not Detected	4.5	Not Detected
1,1-Difluoroethane	4.5	Not Detected	12	Not Detected
1,2,3-Trichloropropane	4.5	Not Detected	27	Not Detected
1,2,4-Trichlorobenzene	4.5	Not Detected	34	Not Detected
1,2,4-Trimethylbenzene	1.1	Not Detected	5.6	Not Detected
1,2-Dibromo-3-chloropropane	4.5	Not Detected	44	Not Detected
1,2-Dibromoethane (EDB)	1.1	Not Detected	8.7	Not Detected
1,2-Dichlorobenzene	1.1	Not Detected	6.8	Not Detected
1,2-Dichloroethane	1.1	Not Detected	4.6	Not Detected
1,2-Dichloropropane	1.1	Not Detected	5.2	Not Detected
1,3,5-Trimethylbenzene	1.1	Not Detected	5.6	Not Detected
1,3-Butadiene	1.1	Not Detected	2.5	Not Detected
1,3-Dichlorobenzene	1.1	Not Detected	6.8	Not Detected
1,4-Dichlorobenzene	1.1	Not Detected	6.8	Not Detected
1,4-Dioxane	4.5	Not Detected	16	Not Detected
2,2,4-Trimethylpentane	1.1	Not Detected	5.3	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.5	Not Detected	13	Not Detected
2-Hexanone	4.5	Not Detected	18	Not Detected
2-Propanol	4.5	Not Detected	11	Not Detected
3-Chloropropene	4.5	Not Detected	14	Not Detected
4-Ethyltoluene	1.1	Not Detected	5.6	Not Detected
4-Methyl-2-pentanone	1.1	Not Detected	4.6	Not Detected
Acetone	11	Not Detected	27	Not Detected
Acrolein	4.5	Not Detected	10	Not Detected
Acrylonitrile	4.5	Not Detected	9.8	Not Detected
alpha-Chlorotoluene	1.1	Not Detected	5.9	Not Detected
Benzene	1.1	Not Detected	3.6	Not Detected
Bromodichloromethane	1.1	Not Detected	7.6	Not Detected
Bromoform	1.1	Not Detected	12	Not Detected
Bromomethane	11	Not Detected	44	Not Detected
Carbon Disulfide	4.5	Not Detected	14	Not Detected
Carbon Tetrachloride	1.1	Not Detected	7.1	Not Detected
Chlorobenzene	1.1	Not Detected	5.2	Not Detected
Chloroethane	4.5	Not Detected	12	Not Detected
Chloroform	1.1	Not Detected	5.5	Not Detected
Chloromethane	11	Not Detected	23	Not Detected
cis-1,2-Dichloroethene	1.1	Not Detected	4.5	Not Detected

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Client Sample ID: SG-VW39B-02

Lab ID#: 2107284-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3072612**	**Date of Collection:**	**7/14/21 8:41:00 AM**
Dil. Factor:	**2.27**	**Date of Analysis:**	**7/26/21 04:43 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,3-Dichloropropene	1.1	Not Detected	5.2	Not Detected
Cumene	1.1	Not Detected	5.6	Not Detected
Cyclohexane	1.1	Not Detected	3.9	Not Detected
Dibromochloromethane	1.1	Not Detected	9.7	Not Detected
Dibromomethane	4.5	Not Detected	32	Not Detected
Ethanol	11	Not Detected	21	Not Detected
Ethyl Acetate	4.5	Not Detected	16	Not Detected
Ethyl Benzene	1.1	Not Detected	4.9	Not Detected
Ethyl-tert-butyl ether	4.5	Not Detected	19	Not Detected
Freon 11	1.1	Not Detected	6.4	Not Detected
Freon 12	1.1	Not Detected	5.6	Not Detected
Freon 113	1.1	Not Detected	8.7	Not Detected
Freon 114	1.1	Not Detected	7.9	Not Detected
Freon 134a	4.5	Not Detected	19	Not Detected
Heptane	1.1	Not Detected	4.6	Not Detected
Hexachlorobutadiene	4.5	Not Detected	48	Not Detected
Hexachloroethane	4.5	Not Detected	44	Not Detected
Hexane	1.1	Not Detected	4.0	Not Detected
Iodomethane	11	Not Detected	66	Not Detected
Isopropyl ether	4.5	Not Detected	19	Not Detected
m,p-Xylene	1.1	Not Detected	4.9	Not Detected
Methyl tert-butyl ether	4.5	Not Detected	16	Not Detected
Methylene Chloride	11	Not Detected	39	Not Detected
Naphthalene	2.3	Not Detected	12	Not Detected
o-Xylene	1.1	Not Detected	4.9	Not Detected
Propylbenzene	1.1	Not Detected	5.6	Not Detected
Propylene	4.5	Not Detected	7.8	Not Detected
Styrene	1.1	Not Detected	4.8	Not Detected
tert-Amyl methyl ether	4.5	Not Detected	19	Not Detected
tert-Butyl alcohol	4.5	Not Detected	14	Not Detected
Tetrachloroethene	1.1	2.3	7.7	16
Tetrahydrofuran	1.1	Not Detected	3.3	Not Detected
Toluene	1.1	3.2	4.3	12
TPH ref. to Gasoline (MW=100)	110	Not Detected	460	Not Detected
trans-1,2-Dichloroethene	1.1	Not Detected	4.5	Not Detected
trans-1,3-Dichloropropene	1.1	Not Detected	5.2	Not Detected
Trichloroethene	1.1	Not Detected	6.1	Not Detected
Vinyl Acetate	4.5	Not Detected	16	Not Detected
Vinyl Bromide	4.5	Not Detected	20	Not Detected
Vinyl Chloride	1.1	Not Detected	2.9	Not Detected

Container Type: 1 Liter Summa Canister

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Client Sample ID: SG-VW39B-02

Lab ID#: 2107284-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3072612**	**Date of Collection: 7/14/21 8:41:00 AM**	
Dil. Factor:	**2.27**	**Date of Analysis: 7/26/21 04:43 PM**	

Surrogates	%Recovery	Method Limits
Toluene-d8	96	70-130
1,2-Dichloroethane-d4	98	70-130
4-Bromofluorobenzene	95	70-130

US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msd3.i/26JUL21.b/3072612.d
Lab Smp Id: 2107284-04A
Inj Date : 26-JUL-2021 16:43
Operator : LD Inst ID: msd3.i
Smp Info : 200mL O1060
Misc Info : 7.8 Hg->10 psi
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msd3.i/26JUL21.b/321q0622a.m
Meth Date : 28-Jul-2021 12:16 uexa Quant Type: ISTD
Cal Date : 23-JUN-2021 00:09 Cal File: 3062223.d
Als bottle: 4
Dil Factor: 2.27000
Integrator: HP RTE Compound Sublist: AEC25677.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE		(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 90 Bromochloromethane							CAS #: 74-97-5	
5.284	5.284 (1.000)	130	291710	25.0000			80.00- 120.00	100.00
5.284	5.284 (1.000)	128	227616				48.46- 108.46	78.03
5.284	5.284 (1.000)	49	405114				120.39- 180.39	138.88
* 108 1,4-Difluorobenzene							CAS #: 540-36-3	
6.166	6.166 (1.000)	114	967521	25.0000			80.00- 120.00	100.00
6.166	6.166 (1.000)	88	143133				0.00- 45.52	14.79
* 153 Chlorobenzene-d5							CAS #: 3114-55-4	
8.612	8.612 (1.000)	117	866593	25.0000			80.00- 120.00	100.00
8.612	8.612 (1.000)	82	452733				25.46- 85.46	52.24
$ 104 1,2-Dichloroethane-d4							CAS #: 17060-07-0	
5.816	5.816 (1.101)	65	394254	24.5594		24.559	80.00- 120.00	100.00
5.816	5.816 (1.101)	67	185617				21.66- 81.66	47.08
$ 134 Toluene-d8							CAS #: 2037-26-5	
7.387	7.387 (1.198)	98	952998	23.9143		23.914	80.00- 120.00	100.00
7.380	7.387 (1.197)	70	107430				0.00- 41.47	11.27

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 134 Toluene-d8 (continued)							
7.387	7.387 (1.198)	100	623314			36.47- 96.47	65.41
$ 170 4-Bromofluorobenzene					CAS #: 460-00-4		
9.600	9.601 (1.115)	174	544505	23.7549	23.755	80.00- 120.00	100.00
9.600	9.601 (1.115)	95	617388			93.06- 153.06	113.39
9.600	9.601 (1.115)	176	508687			62.87- 122.87	93.42
137 Toluene					CAS #: 108-88-3		
7.437	7.437 (1.206)	91	41174	1.38985	3.155	80.00- 120.00	100.00
7.444	7.437 (1.207)	92	24255			28.30- 88.30	58.91
142 Tetrachloroethene					CAS #: 127-18-4		
7.874	7.881 (0.914)	166	14022	1.03284	2.344	80.00- 120.00	100.00
7.874	7.881 (0.914)	129	10600			48.71- 108.71	75.60
7.874	7.881 (0.914)	131	11132			46.55- 106.55	79.39

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd3.i
Lab File ID: 3072612.d
Lab Smp Id: 2107284-04A
Analysis Type: VOA
Quant Type: ISTD
Operator: LD
Method File: /chem/msd3.i/26JUL21.b/321q0622a.m
Misc Info: 7.8 Hg->10 psi

Calibration Date: 26-JUL-2021
Calibration Time: 10:10
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	263983	158390	369576	291710	10.50
108 1,4-Difluorobenze	833448	500069	1166827	967521	16.09
153 Chlorobenzene-d5	741338	444803	1037873	866593	16.90

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.28	4.95	5.61	5.28	-0.00
108 1,4-Difluorobenze	6.17	5.84	6.50	6.17	-0.00
153 Chlorobenzene-d5	8.61	8.28	8.94	8.61	-0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 28-Jul-2021 12:22

US32TAR1

RECOVERY REPORT

Client Name: Client SDG: 26JUL21
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 2107284-04A
Level: LOW Operator: LD
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT20_new.spk Quant Type: ISTD
Sublist File: AEC25677.sub
Method File: /chem/msd3.i/26JUL21.b/321q0622a.m
Misc Info: 7.8 Hg->10 psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 104 1,2-Dichloroethan	25.000	24.559	98.24	70-130
$ 134 Toluene-d8	25.000	23.914	95.66	70-130
$ 170 4-Bromofluorobenz	25.000	23.755	95.02	70-130

Data File: /chem/msd3.i/26JUL21.b/3072612.d

Date : 26-JUL-2021 16:43

Client ID:

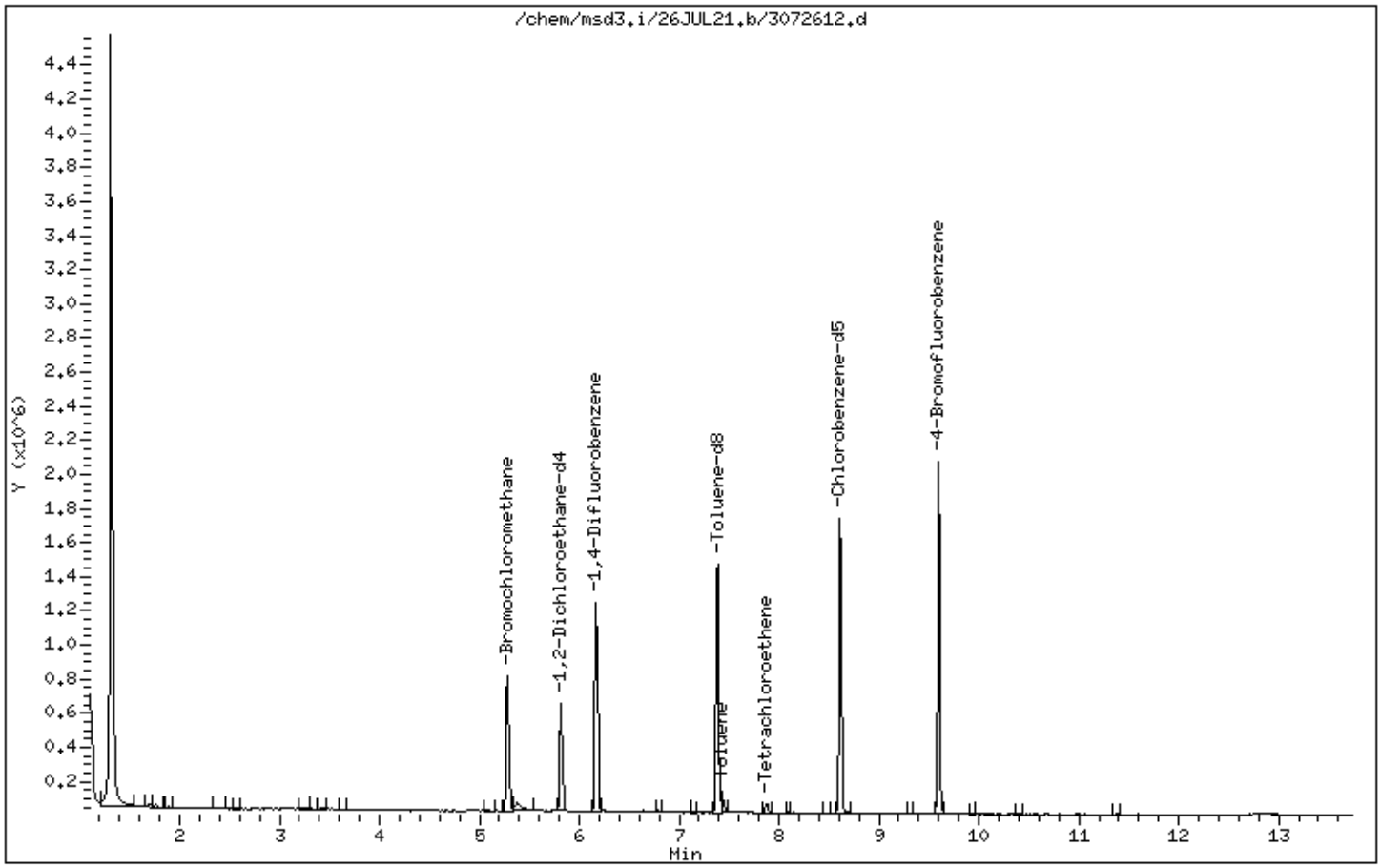
Instrument: msd3.i

Sample Info: 200mL 01060

Operator: LD

Column phase: RTX-624

Column diameter: 0.25



Data File: /chem/msd3.i/26JUL21.b/3072612.d

Date : 26-JUL-2021 16:43

Client ID:

Instrument: msd3.i

Sample Info: 200mL 01060

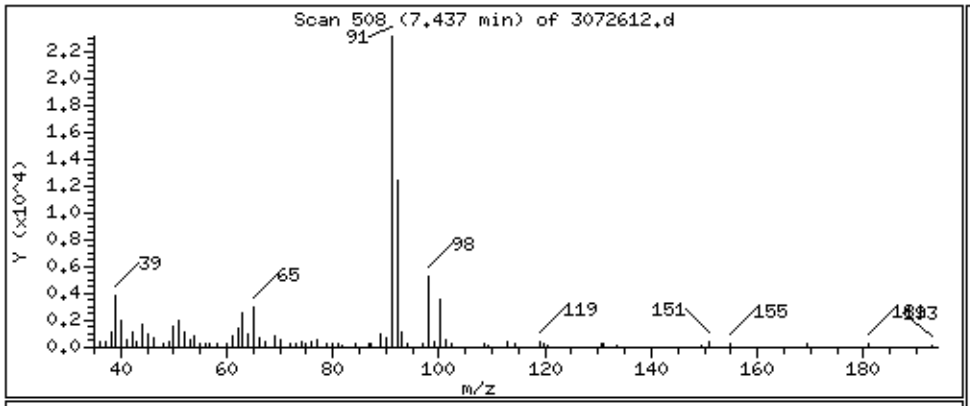
Operator: LD

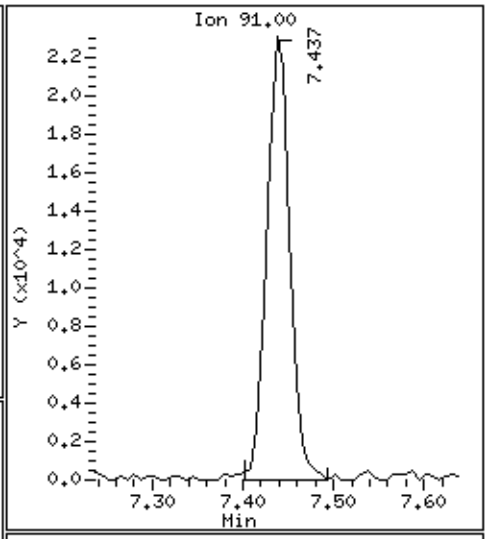
Column phase: RTX-624

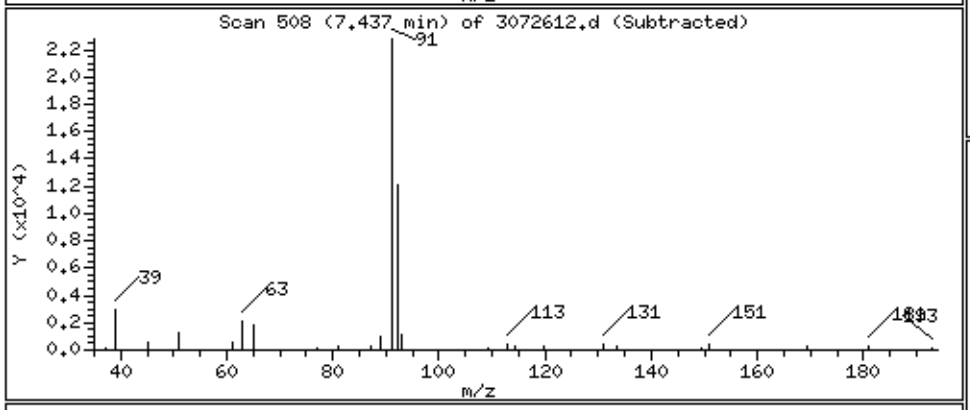
Column diameter: 0.25

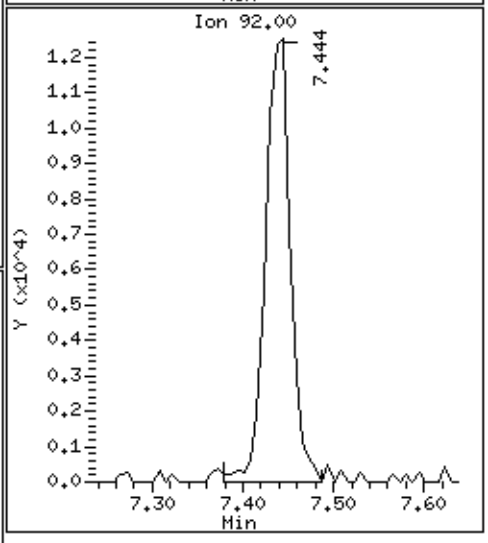
137 Toluene

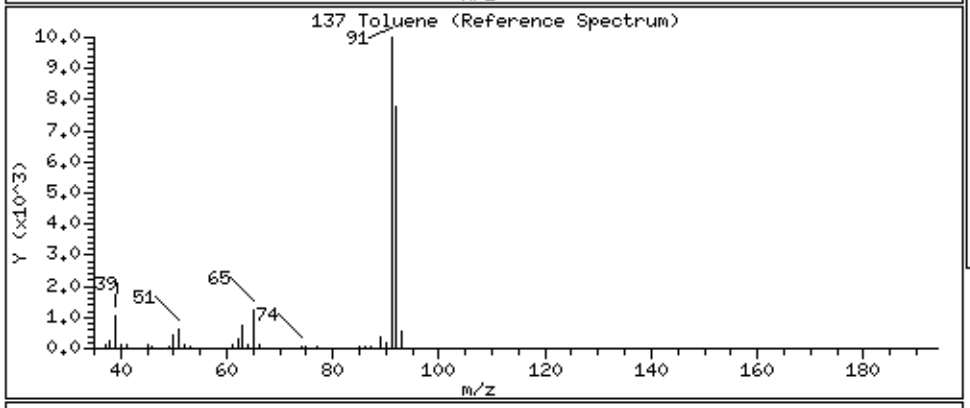
Concentration: 3.155 PPBV

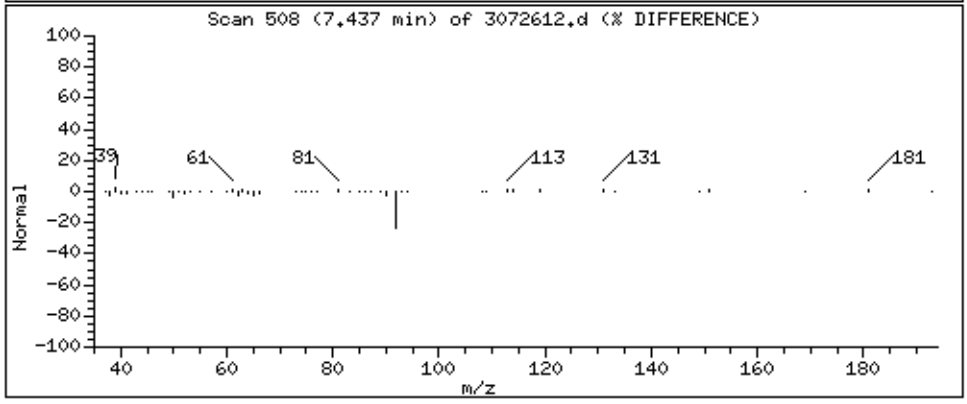












Data File: /chem/msd3.i/26JUL21.b/3072612.d

Date : 26-JUL-2021 16:43

Client ID:

Instrument: msd3.i

Sample Info: 200mL 01060

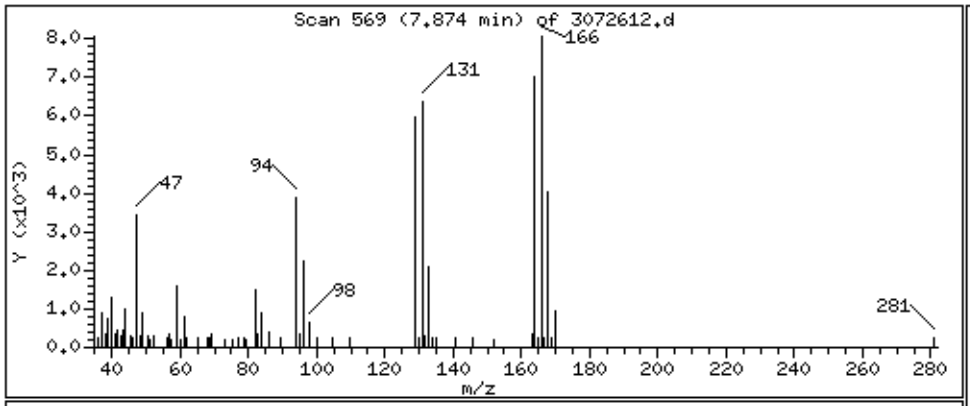
Operator: LD

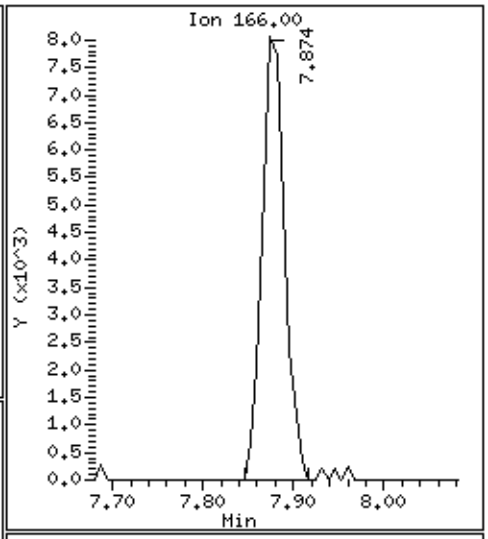
Column phase: RTX-624

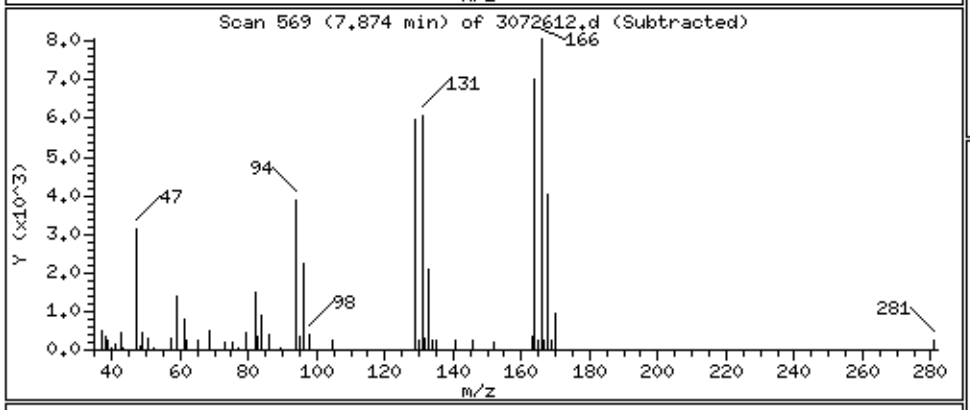
Column diameter: 0.25

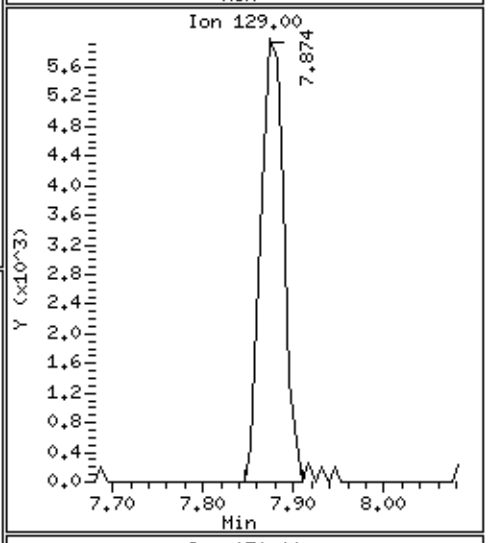
142 Tetrachloroethene

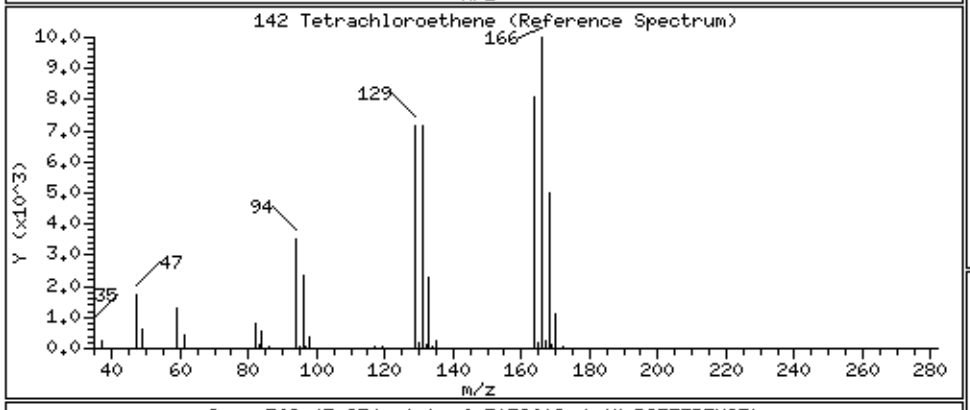
Concentration: 2.344 PPBV

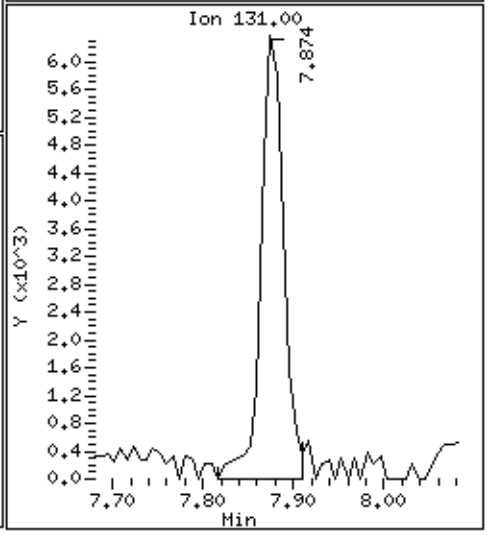


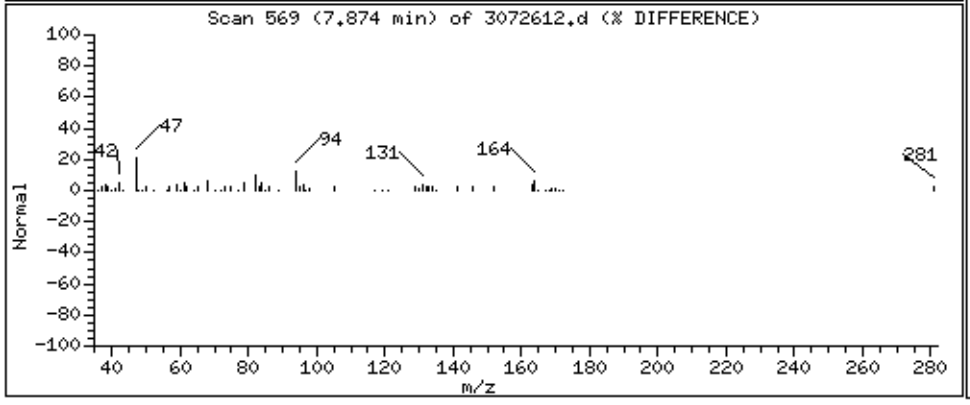












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Client Sample ID: SG-VW39A-02

Lab ID#: 2107284-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3072613**	**Date of Collection:**	**7/14/21 9:16:00 AM**
Dil. Factor:	**2.06**	**Date of Analysis:**	**7/26/21 05:13 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1,2-Tetrachloroethane	4.1	Not Detected	28	Not Detected
1,1,1-Trichloroethane	1.0	Not Detected	5.6	Not Detected
1,1,2,2-Tetrachloroethane	1.0	Not Detected	7.1	Not Detected
1,1,2-Trichloroethane	1.0	Not Detected	5.6	Not Detected
1,1-Dichloroethane	1.0	Not Detected	4.2	Not Detected
1,1-Dichloroethene	1.0	Not Detected	4.1	Not Detected
1,1-Difluoroethane	4.1	Not Detected	11	Not Detected
1,2,3-Trichloropropane	4.1	Not Detected	25	Not Detected
1,2,4-Trichlorobenzene	4.1	Not Detected	30	Not Detected
1,2,4-Trimethylbenzene	1.0	Not Detected	5.1	Not Detected
1,2-Dibromo-3-chloropropane	4.1	Not Detected	40	Not Detected
1,2-Dibromoethane (EDB)	1.0	Not Detected	7.9	Not Detected
1,2-Dichlorobenzene	1.0	Not Detected	6.2	Not Detected
1,2-Dichloroethane	1.0	Not Detected	4.2	Not Detected
1,2-Dichloropropane	1.0	Not Detected	4.8	Not Detected
1,3,5-Trimethylbenzene	1.0	Not Detected	5.1	Not Detected
1,3-Butadiene	1.0	Not Detected	2.3	Not Detected
1,3-Dichlorobenzene	1.0	Not Detected	6.2	Not Detected
1,4-Dichlorobenzene	1.0	Not Detected	6.2	Not Detected
1,4-Dioxane	4.1	Not Detected	15	Not Detected
2,2,4-Trimethylpentane	1.0	Not Detected	4.8	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.1	Not Detected	12	Not Detected
2-Hexanone	4.1	Not Detected	17	Not Detected
2-Propanol	4.1	Not Detected	10	Not Detected
3-Chloropropene	4.1	Not Detected	13	Not Detected
4-Ethyltoluene	1.0	Not Detected	5.1	Not Detected
4-Methyl-2-pentanone	1.0	Not Detected	4.2	Not Detected
Acetone	10	Not Detected	24	Not Detected
Acrolein	4.1	Not Detected	9.4	Not Detected
Acrylonitrile	4.1	Not Detected	8.9	Not Detected
alpha-Chlorotoluene	1.0	Not Detected	5.3	Not Detected
Benzene	1.0	Not Detected	3.3	Not Detected
Bromodichloromethane	1.0	Not Detected	6.9	Not Detected
Bromoform	1.0	Not Detected	11	Not Detected
Bromomethane	10	Not Detected	40	Not Detected
Carbon Disulfide	4.1	Not Detected	13	Not Detected
Carbon Tetrachloride	1.0	Not Detected	6.5	Not Detected
Chlorobenzene	1.0	Not Detected	4.7	Not Detected
Chloroethane	4.1	Not Detected	11	Not Detected
Chloroform	1.0	Not Detected	5.0	Not Detected
Chloromethane	10	Not Detected	21	Not Detected
cis-1,2-Dichloroethene	1.0	Not Detected	4.1	Not Detected

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Client Sample ID: SG-VW39A-02

Lab ID#: 2107284-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3072613**	**Date of Collection:**	**7/14/21 9:16:00 AM**
Dil. Factor:	**2.06**	**Date of Analysis:**	**7/26/21 05:13 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,3-Dichloropropene	1.0	Not Detected	4.7	Not Detected
Cumene	1.0	Not Detected	5.1	Not Detected
Cyclohexane	1.0	Not Detected	3.5	Not Detected
Dibromochloromethane	1.0	Not Detected	8.8	Not Detected
Dibromomethane	4.1	Not Detected	29	Not Detected
Ethanol	10	Not Detected	19	Not Detected
Ethyl Acetate	4.1	Not Detected	15	Not Detected
Ethyl Benzene	1.0	Not Detected	4.5	Not Detected
Ethyl-tert-butyl ether	4.1	Not Detected	17	Not Detected
Freon 11	1.0	Not Detected	5.8	Not Detected
Freon 12	1.0	Not Detected	5.1	Not Detected
Freon 113	1.0	Not Detected	7.9	Not Detected
Freon 114	1.0	Not Detected	7.2	Not Detected
Freon 134a	4.1	Not Detected	17	Not Detected
Heptane	1.0	Not Detected	4.2	Not Detected
Hexachlorobutadiene	4.1	Not Detected	44	Not Detected
Hexachloroethane	4.1	Not Detected	40	Not Detected
Hexane	1.0	Not Detected	3.6	Not Detected
Iodomethane	10	Not Detected	60	Not Detected
Isopropyl ether	4.1	Not Detected	17	Not Detected
m,p-Xylene	1.0	Not Detected	4.5	Not Detected
Methyl tert-butyl ether	4.1	Not Detected	15	Not Detected
Methylene Chloride	10	Not Detected	36	Not Detected
Naphthalene	2.1	Not Detected	11	Not Detected
o-Xylene	1.0	Not Detected	4.5	Not Detected
Propylbenzene	1.0	Not Detected	5.1	Not Detected
Propylene	4.1	Not Detected	7.1	Not Detected
Styrene	1.0	Not Detected	4.4	Not Detected
tert-Amyl methyl ether	4.1	Not Detected	17	Not Detected
tert-Butyl alcohol	4.1	Not Detected	12	Not Detected
Tetrachloroethene	1.0	3.2	7.0	22
Tetrahydrofuran	1.0	Not Detected	3.0	Not Detected
Toluene	1.0	Not Detected	3.9	Not Detected
TPH ref. to Gasoline (MW=100)	100	Not Detected	420	Not Detected
trans-1,2-Dichloroethene	1.0	Not Detected	4.1	Not Detected
trans-1,3-Dichloropropene	1.0	Not Detected	4.7	Not Detected
Trichloroethene	1.0	Not Detected	5.5	Not Detected
Vinyl Acetate	4.1	Not Detected	14	Not Detected
Vinyl Bromide	4.1	Not Detected	18	Not Detected
Vinyl Chloride	1.0	Not Detected	2.6	Not Detected

Container Type: 1 Liter Summa Canister

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Client Sample ID: SG-VW39A-02

Lab ID#: 2107284-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3072613**	**Date of Collection:**	**7/14/21 9:16:00 AM**
Dil. Factor:	**2.06**	**Date of Analysis:**	**7/26/21 05:13 PM**

Surrogates	%Recovery	Method Limits
Toluene-d8	89	70-130
1,2-Dichloroethane-d4	104	70-130
4-Bromofluorobenzene	94	70-130

US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msd3.i/26JUL21.b/3072613.d
Lab Smp Id: 2107284-05A
Inj Date : 26-JUL-2021 17:13
Operator : LD Inst ID: msd3.i
Smp Info : 200mL N3824
Misc Info : 5.7 Hg->9.8 psi
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msd3.i/26JUL21.b/321q0622a.m
Meth Date : 28-Jul-2021 12:16 uexa Quant Type: ISTD
Cal Date : 23-JUN-2021 00:09 Cal File: 3062223.d
Als bottle: 5
Dil Factor: 2.06000
Integrator: HP RTE Compound Sublist: AEC25677.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE		(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 90 Bromochloromethane						CAS #: 74-97-5		
5.284	5.284 (1.000)	130	229460	25.0000			80.00- 120.00	100.00
5.284	5.284 (1.000)	128	180233				48.46- 108.46	78.55
5.284	5.284 (1.000)	49	316441				120.39- 180.39	137.91
* 108 1,4-Difluorobenzene						CAS #: 540-36-3		
6.180	6.166 (1.000)	114	818801	25.0000			80.00- 120.00	100.00
6.180	6.166 (1.000)	88	118598				0.00- 45.52	14.48
* 153 Chlorobenzene-d5						CAS #: 3114-55-4		
8.619	8.612 (1.000)	117	677990	25.0000			80.00- 120.00	100.00
8.619	8.612 (1.000)	82	353174				25.46- 85.46	52.09
$ 104 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
5.816	5.816 (1.101)	65	329401	26.0862	26.086		80.00- 120.00	100.00
5.816	5.816 (1.101)	67	159162				21.66- 81.66	48.32
$ 134 Toluene-d8						CAS #: 2037-26-5		
7.387	7.387 (1.195)	98	750420	22.2511	22.251		80.00- 120.00	100.00
7.387	7.387 (1.195)	70	84622				0.00- 41.47	11.28

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 134 Toluene-d8 (continued)							
7.387	7.387 (1.195)	100	488169			36.47- 96.47	65.05
$ 170 4-Bromofluorobenzene					CAS #: 460-00-4		
9.601	9.601 (1.114)	174	421928	23.5278	23.528	80.00- 120.00	100.00
9.601	9.601 (1.114)	95	475028			93.06- 153.06	112.59
9.601	9.601 (1.114)	176	390386			62.87- 122.87	92.52
142 Tetrachloroethene					CAS #: 127-18-4		
7.882	7.881 (0.914)	166	16589	1.56183	3.217	80.00- 120.00	100.00
7.882	7.881 (0.914)	129	12731			48.71- 108.71	76.75
7.882	7.881 (0.914)	131	12396			46.55- 106.55	74.73

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd3.i
Lab File ID: 3072613.d
Lab Smp Id: 2107284-05A
Analysis Type: VOA
Quant Type: ISTD
Operator: LD
Method File: /chem/msd3.i/26JUL21.b/321q0622a.m
Misc Info: 5.7 Hg->9.8 psi

Calibration Date: 26-JUL-2021
Calibration Time: 10:10
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	263983	158390	369576	229460	-13.08
108 1,4-Difluorobenze	833448	500069	1166827	818801	-1.76
153 Chlorobenzene-d5	741338	444803	1037873	677990	-8.55

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.28	4.95	5.61	5.28	0.00
108 1,4-Difluorobenze	6.17	5.84	6.50	6.18	0.23
153 Chlorobenzene-d5	8.61	8.28	8.94	8.62	0.08

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 28-Jul-2021 12:39

US32TAR1

RECOVERY REPORT

Client Name: Client SDG: 26JUL21
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 2107284-05A
Level: LOW Operator: LD
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT20_new.spk Quant Type: ISTD
Sublist File: AEC25677.sub
Method File: /chem/msd3.i/26JUL21.b/321q0622a.m
Misc Info: 5.7 Hg->9.8 psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 104 1,2-Dichloroethan	25.000	26.086	104.34	70-130
$ 134 Toluene-d8	25.000	22.251	89.00	70-130
$ 170 4-Bromofluorobenz	25.000	23.528	94.11	70-130

Data File: /chem/msd3.i/26JUL21.b/3072613.d

Date : 26-JUL-2021 17:13

Client ID:

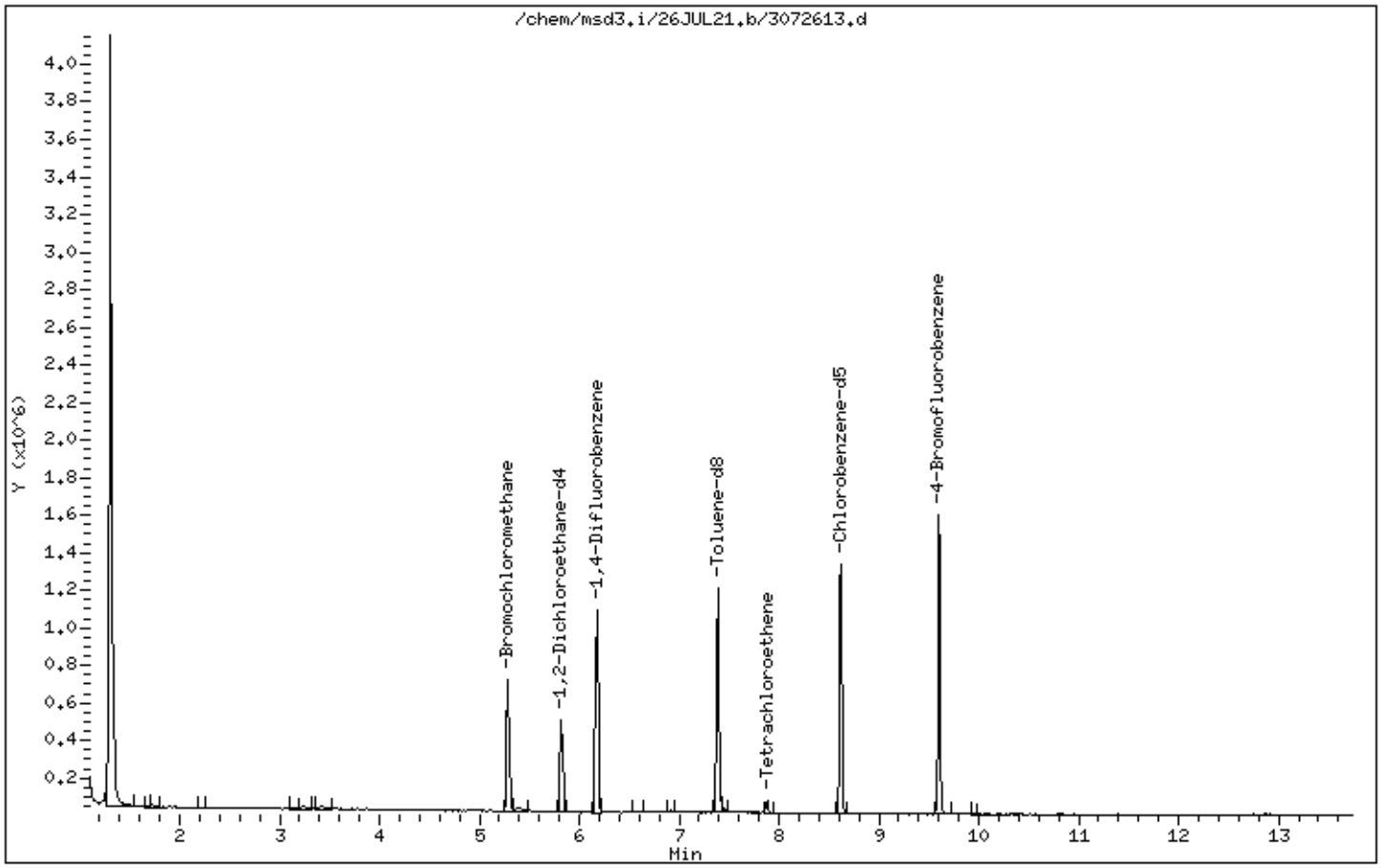
Instrument: msd3.i

Sample Info: 200mL N3824

Operator: LD

Column phase: RTX-624

Column diameter: 0.25



Data File: /chem/msd3.i/26JUL21.b/3072613.d

Date : 26-JUL-2021 17:13

Client ID:

Instrument: msd3.i

Sample Info: 200mL N3824

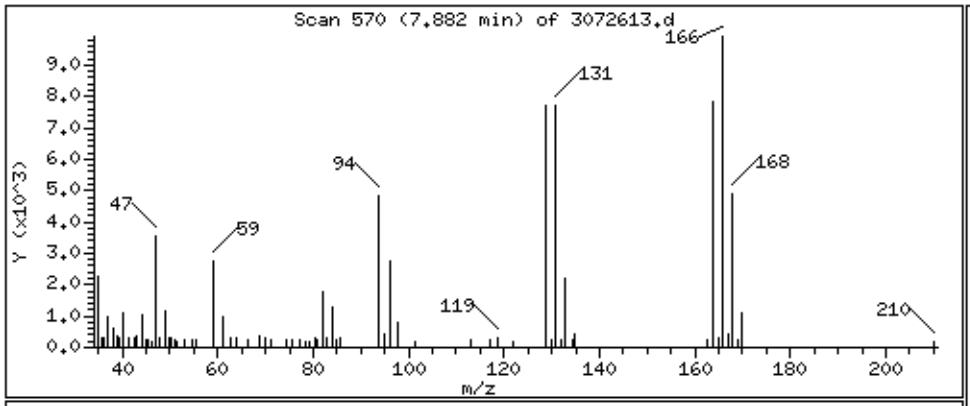
Operator: LD

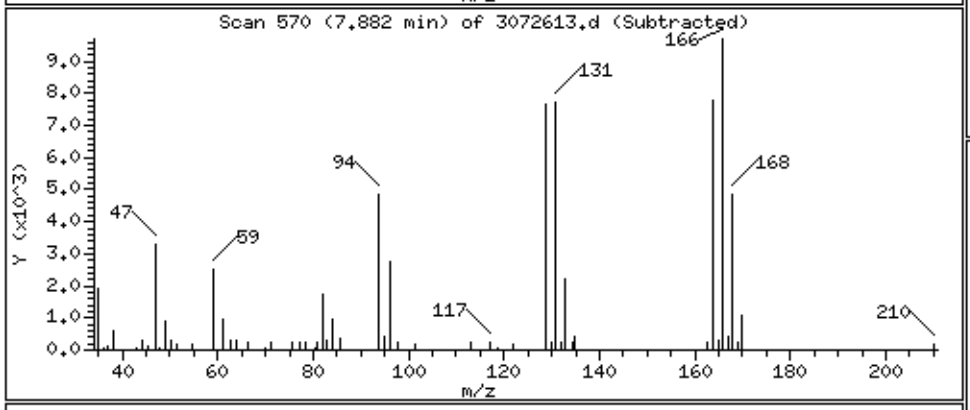
Column phase: RTX-624

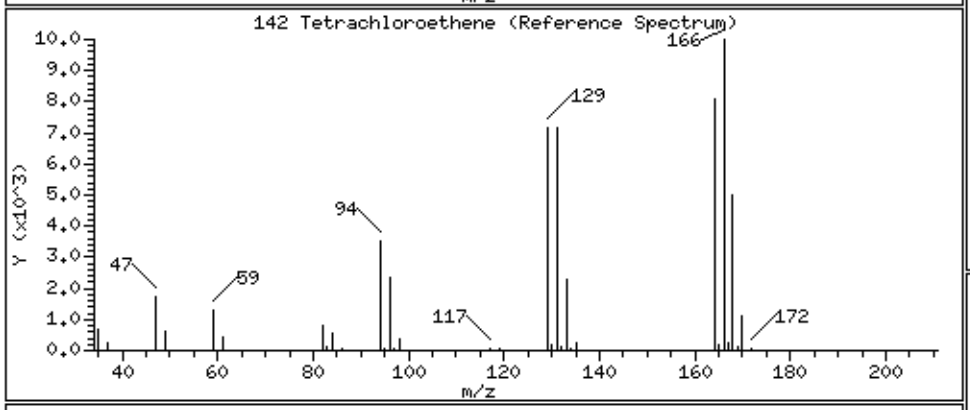
Column diameter: 0.25

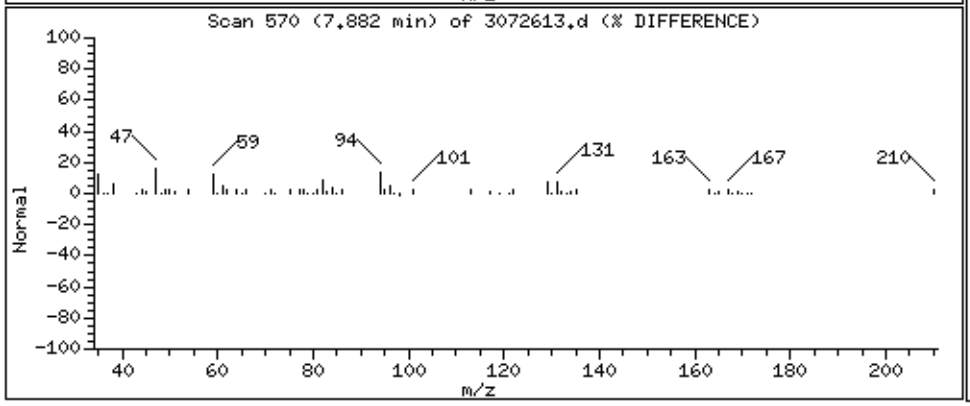
142 Tetrachloroethene

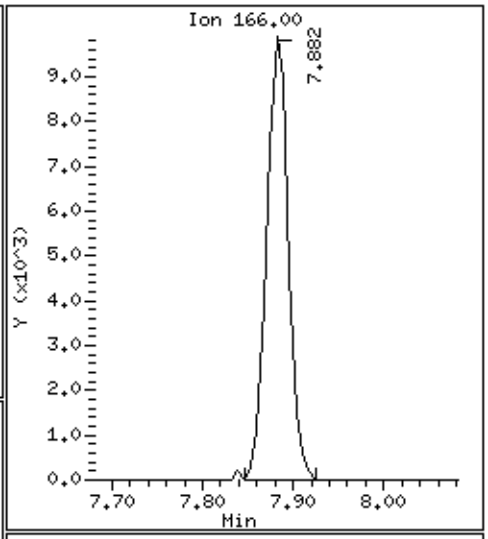
Concentration: 3.217 PPBV

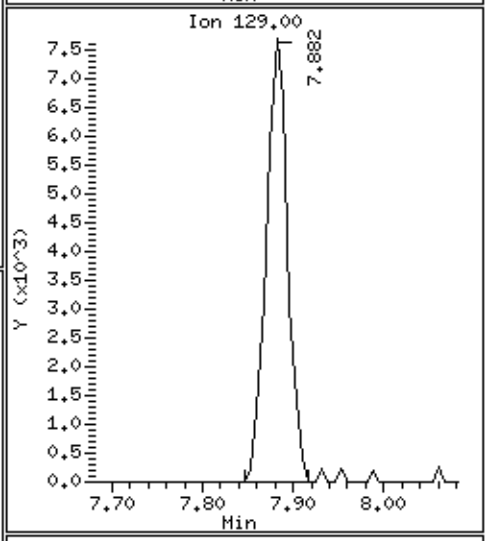


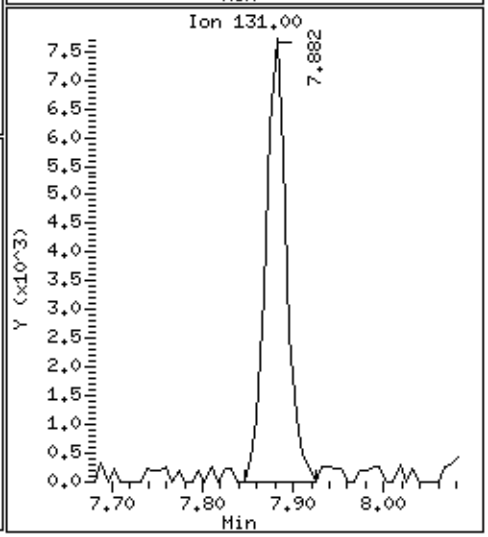












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Client Sample ID: SG-VW38B-03

Lab ID#: 2107284-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3072614**	**Date of Collection:**	**7/14/21 9:42:00 AM**
Dil. Factor:	**2.09**	**Date of Analysis:**	**7/26/21 05:42 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1,2-Tetrachloroethane	4.2	Not Detected	29	Not Detected
1,1,1-Trichloroethane	1.0	Not Detected	5.7	Not Detected
1,1,2,2-Tetrachloroethane	1.0	Not Detected	7.2	Not Detected
1,1,2-Trichloroethane	1.0	Not Detected	5.7	Not Detected
1,1-Dichloroethane	1.0	Not Detected	4.2	Not Detected
1,1-Dichloroethene	1.0	Not Detected	4.1	Not Detected
1,1-Difluoroethane	4.2	Not Detected	11	Not Detected
1,2,3-Trichloropropane	4.2	Not Detected	25	Not Detected
1,2,4-Trichlorobenzene	4.2	Not Detected	31	Not Detected
1,2,4-Trimethylbenzene	1.0	Not Detected	5.1	Not Detected
1,2-Dibromo-3-chloropropane	4.2	Not Detected	40	Not Detected
1,2-Dibromoethane (EDB)	1.0	Not Detected	8.0	Not Detected
1,2-Dichlorobenzene	1.0	Not Detected	6.3	Not Detected
1,2-Dichloroethane	1.0	Not Detected	4.2	Not Detected
1,2-Dichloropropane	1.0	Not Detected	4.8	Not Detected
1,3,5-Trimethylbenzene	1.0	Not Detected	5.1	Not Detected
1,3-Butadiene	1.0	Not Detected	2.3	Not Detected
1,3-Dichlorobenzene	1.0	Not Detected	6.3	Not Detected
1,4-Dichlorobenzene	1.0	Not Detected	6.3	Not Detected
1,4-Dioxane	4.2	Not Detected	15	Not Detected
2,2,4-Trimethylpentane	1.0	Not Detected	4.9	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.2	Not Detected	12	Not Detected
2-Hexanone	4.2	Not Detected	17	Not Detected
2-Propanol	4.2	Not Detected	10	Not Detected
3-Chloropropene	4.2	Not Detected	13	Not Detected
4-Ethyltoluene	1.0	Not Detected	5.1	Not Detected
4-Methyl-2-pentanone	1.0	Not Detected	4.3	Not Detected
Acetone	10	Not Detected	25	Not Detected
Acrolein	4.2	Not Detected	9.6	Not Detected
Acrylonitrile	4.2	Not Detected	9.1	Not Detected
alpha-Chlorotoluene	1.0	Not Detected	5.4	Not Detected
Benzene	1.0	Not Detected	3.3	Not Detected
Bromodichloromethane	1.0	Not Detected	7.0	Not Detected
Bromoform	1.0	Not Detected	11	Not Detected
Bromomethane	10	Not Detected	40	Not Detected
Carbon Disulfide	4.2	Not Detected	13	Not Detected
Carbon Tetrachloride	1.0	Not Detected	6.6	Not Detected
Chlorobenzene	1.0	Not Detected	4.8	Not Detected
Chloroethane	4.2	Not Detected	11	Not Detected
Chloroform	1.0	1.5	5.1	7.2
Chloromethane	10	Not Detected	22	Not Detected
cis-1,2-Dichloroethene	1.0	Not Detected	4.1	Not Detected

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Client Sample ID: SG-VW38B-03

Lab ID#: 2107284-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3072614**	**Date of Collection:**	**7/14/21 9:42:00 AM**
Dil. Factor:	**2.09**	**Date of Analysis:**	**7/26/21 05:42 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,3-Dichloropropene	1.0	Not Detected	4.7	Not Detected
Cumene	1.0	Not Detected	5.1	Not Detected
Cyclohexane	1.0	Not Detected	3.6	Not Detected
Dibromochloromethane	1.0	Not Detected	8.9	Not Detected
Dibromomethane	4.2	Not Detected	30	Not Detected
Ethanol	10	Not Detected	20	Not Detected
Ethyl Acetate	4.2	Not Detected	15	Not Detected
Ethyl Benzene	1.0	Not Detected	4.5	Not Detected
Ethyl-tert-butyl ether	4.2	Not Detected	17	Not Detected
Freon 11	1.0	Not Detected	5.9	Not Detected
Freon 12	1.0	Not Detected	5.2	Not Detected
Freon 113	1.0	Not Detected	8.0	Not Detected
Freon 114	1.0	Not Detected	7.3	Not Detected
Freon 134a	4.2	Not Detected	17	Not Detected
Heptane	1.0	Not Detected	4.3	Not Detected
Hexachlorobutadiene	4.2	Not Detected	44	Not Detected
Hexachloroethane	4.2	Not Detected	40	Not Detected
Hexane	1.0	Not Detected	3.7	Not Detected
Iodomethane	10	Not Detected	61	Not Detected
Isopropyl ether	4.2	Not Detected	17	Not Detected
m,p-Xylene	1.0	Not Detected	4.5	Not Detected
Methyl tert-butyl ether	4.2	Not Detected	15	Not Detected
Methylene Chloride	10	Not Detected	36	Not Detected
Naphthalene	2.1	Not Detected	11	Not Detected
o-Xylene	1.0	Not Detected	4.5	Not Detected
Propylbenzene	1.0	Not Detected	5.1	Not Detected
Propylene	4.2	Not Detected	7.2	Not Detected
Styrene	1.0	Not Detected	4.4	Not Detected
tert-Amyl methyl ether	4.2	Not Detected	17	Not Detected
tert-Butyl alcohol	4.2	Not Detected	13	Not Detected
Tetrachloroethene	1.0	5.2	7.1	35
Tetrahydrofuran	1.0	Not Detected	3.1	Not Detected
Toluene	1.0	5.3	3.9	20
TPH ref. to Gasoline (MW=100)	100	Not Detected	430	Not Detected
trans-1,2-Dichloroethene	1.0	Not Detected	4.1	Not Detected
trans-1,3-Dichloropropene	1.0	Not Detected	4.7	Not Detected
Trichloroethene	1.0	Not Detected	5.6	Not Detected
Vinyl Acetate	4.2	Not Detected	15	Not Detected
Vinyl Bromide	4.2	Not Detected	18	Not Detected
Vinyl Chloride	1.0	Not Detected	2.7	Not Detected

Container Type: 1 Liter Summa Canister

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Client Sample ID: SG-VW38B-03

Lab ID#: 2107284-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3072614**	**Date of Collection:**	**7/14/21 9:42:00 AM**
Dil. Factor:	**2.09**	**Date of Analysis:**	**7/26/21 05:42 PM**

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	94	70-130
4-Bromofluorobenzene	94	70-130

US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msd3.i/26JUL21.b/3072614.d
Lab Smp Id: 2107284-06A
Inj Date : 26-JUL-2021 17:42
Operator : LD Inst ID: msd3.i
Smp Info : 200mL 34000754
Misc Info : 6.1 Hg->9.8 psi
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msd3.i/26JUL21.b/321q0622a.m
Meth Date : 28-Jul-2021 12:16 uexa Quant Type: ISTD
Cal Date : 23-JUN-2021 00:09 Cal File: 3062223.d
Als bottle: 6
Dil Factor: 2.09000
Integrator: HP RTE Compound Sublist: AEC25677.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE		(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 90 Bromochloromethane						CAS #: 74-97-5		
5.270	5.284 (1.000)	130	299708	25.0000			80.00- 120.00	100.00
5.270	5.284 (1.000)	128	229408				48.46- 108.46	76.54
5.270	5.284 (1.000)	49	418255				120.39- 180.39	139.55
* 108 1,4-Difluorobenzene						CAS #: 540-36-3		
6.166	6.166 (1.000)	114	972248	25.0000			80.00- 120.00	100.00
6.166	6.166 (1.000)	88	144819				0.00- 45.52	14.90
* 153 Chlorobenzene-d5						CAS #: 3114-55-4		
8.612	8.612 (1.000)	117	893423	25.0000			80.00- 120.00	100.00
8.612	8.612 (1.000)	82	477418				25.46- 85.46	53.44
$ 104 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
5.816	5.816 (1.104)	65	389768	23.6320	23.632		80.00- 120.00	100.00
5.816	5.816 (1.104)	67	188523				21.66- 81.66	48.37
$ 134 Toluene-d8						CAS #: 2037-26-5		
7.380	7.387 (1.197)	98	1009666	25.2131	25.213		80.00- 120.00	100.00
7.380	7.387 (1.197)	70	111941				0.00- 41.47	11.09

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 134 Toluene-d8 (continued)							
7.380	7.387 (1.197)	100	659550			36.47- 96.47	65.32
$ 170 4-Bromofluorobenzene					CAS #: 460-00-4		
9.600	9.601 (1.115)	174	554109	23.4479	23.448	80.00- 120.00	100.00
9.600	9.601 (1.115)	95	635283			93.06- 153.06	114.65
9.600	9.601 (1.115)	176	512541			62.87- 122.87	92.50
92 Chloroform					CAS #: 67-66-3		
5.340	5.340 (1.013)	83	13294	0.70747	1.479	80.00- 120.00	100.00
5.340	5.340 (1.013)	85	8831			34.71- 94.71	66.43
137 Toluene					CAS #: 108-88-3		
7.437	7.437 (1.206)	91	75161	2.52476	5.277	80.00- 120.00	100.00
7.437	7.437 (1.206)	92	42665			28.30- 88.30	56.76
142 Tetrachloroethene					CAS #: 127-18-4		
7.874	7.881 (0.914)	166	34834	2.48877	5.202	80.00- 120.00	100.00
7.874	7.881 (0.914)	129	27900			48.71- 108.71	80.09
7.874	7.881 (0.914)	131	26974			46.55- 106.55	77.43

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd3.i
Lab File ID: 3072614.d
Lab Smp Id: 2107284-06A
Analysis Type: VOA
Quant Type: ISTD
Operator: LD
Method File: /chem/msd3.i/26JUL21.b/321q0622a.m
Misc Info: 6.1 Hg->9.8 psi

Calibration Date: 26-JUL-2021
Calibration Time: 10:10
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	263983	158390	369576	299708	13.53
108 1,4-Difluorobenze	833448	500069	1166827	972248	16.65
153 Chlorobenzene-d5	741338	444803	1037873	893423	20.51

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.28	4.95	5.61	5.27	-0.27
108 1,4-Difluorobenze	6.17	5.84	6.50	6.17	-0.00
153 Chlorobenzene-d5	8.61	8.28	8.94	8.61	-0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 28-Jul-2021 12:39

US32TAR1

RECOVERY REPORT

Client Name: Client SDG: 26JUL21
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 2107284-06A
Level: LOW Operator: LD
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT20_new.spk Quant Type: ISTD
Sublist File: AEC25677.sub
Method File: /chem/msd3.i/26JUL21.b/321q0622a.m
Misc Info: 6.1 Hg->9.8 psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 104 1,2-Dichloroethan	25.000	23.632	94.53	70-130
$ 134 Toluene-d8	25.000	25.213	100.85	70-130
$ 170 4-Bromofluorobenz	25.000	23.448	93.79	70-130

Data File: /chem/msd3.i/26JUL21.b/3072614.d

Date : 26-JUL-2021 17:42

Client ID:

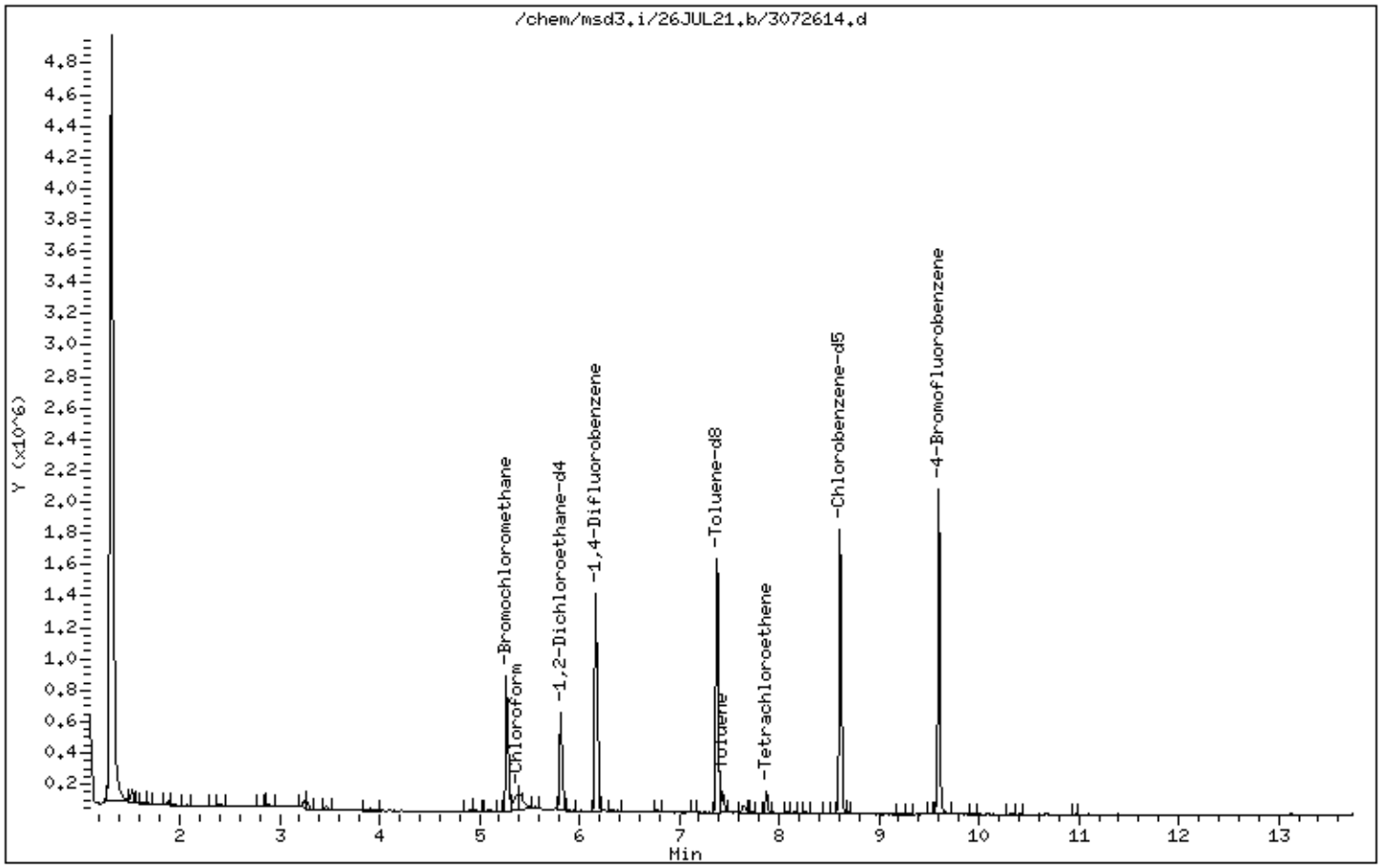
Instrument: msd3.i

Sample Info: 200mL 34000754

Operator: LD

Column phase: RTX-624

Column diameter: 0.25



Data File: /chem/msd3.i/26JUL21.b/3072614.d

Date : 26-JUL-2021 17:42

Client ID:

Instrument: msd3.i

Sample Info: 200mL 34000754

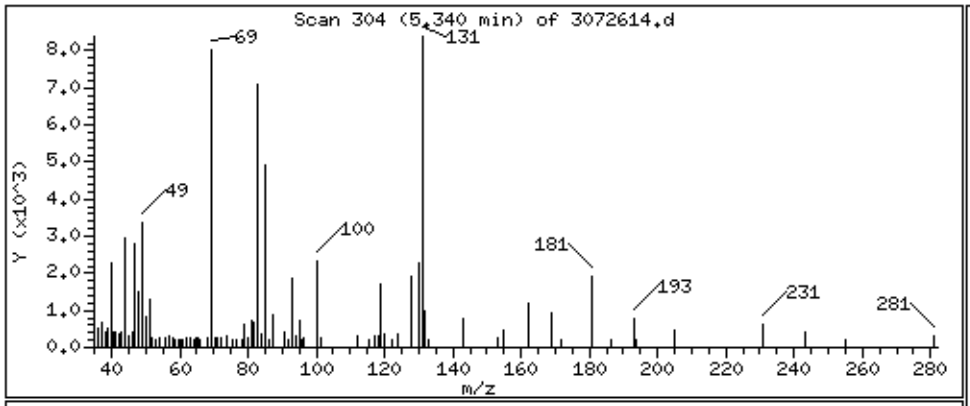
Operator: LD

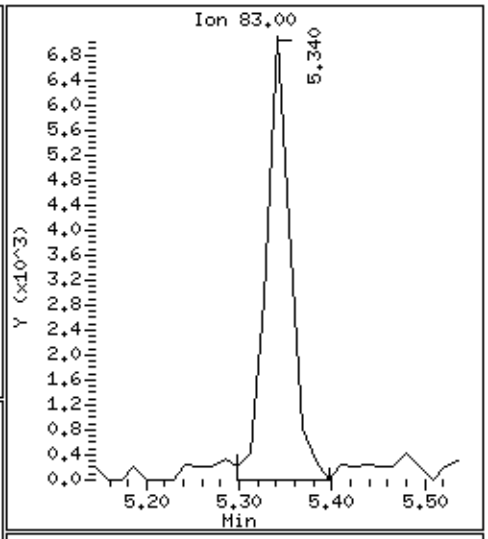
Column phase: RTX-624

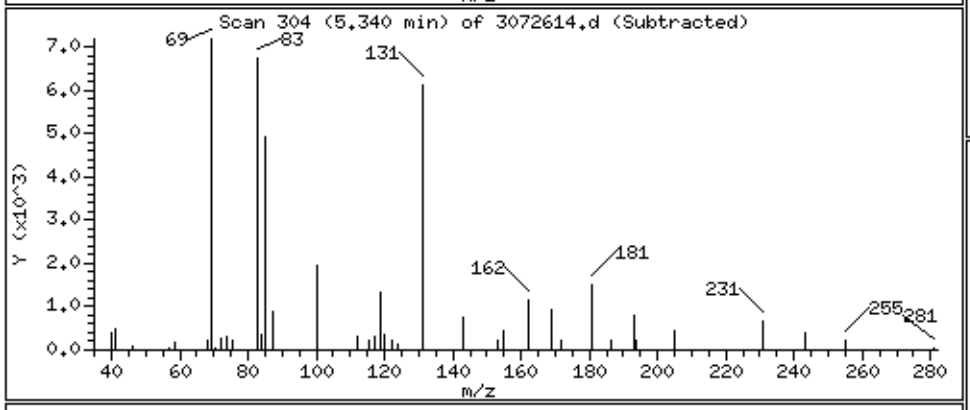
Column diameter: 0.25

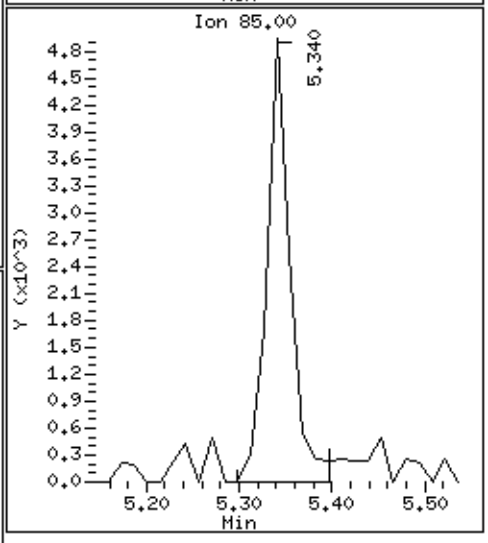
92 Chloroform

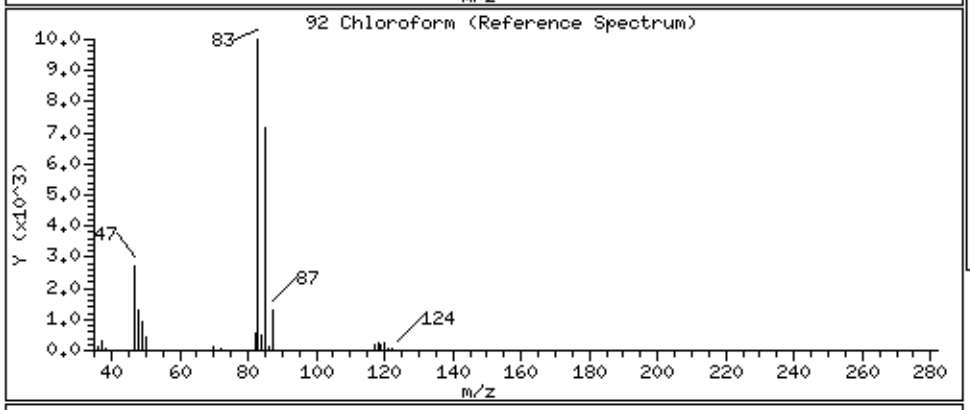
Concentration: 1.479 PPBV

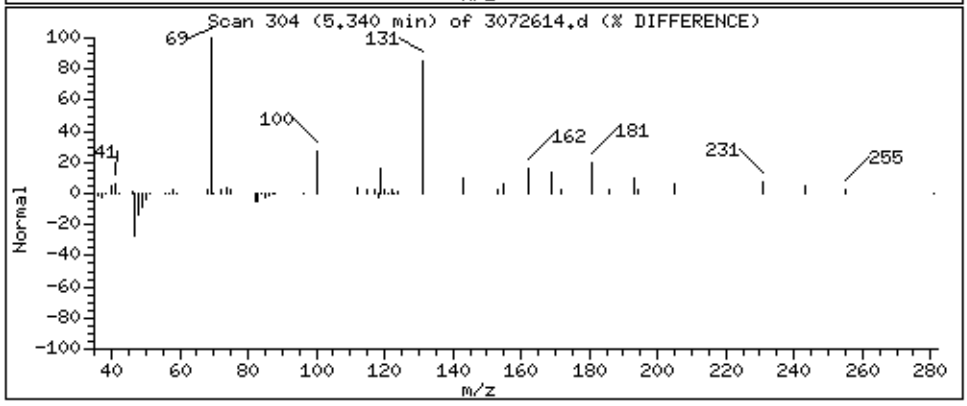












Data File: /chem/msd3.i/26JUL21.b/3072614.d

Date : 26-JUL-2021 17:42

Client ID:

Instrument: msd3.i

Sample Info: 200mL 34000754

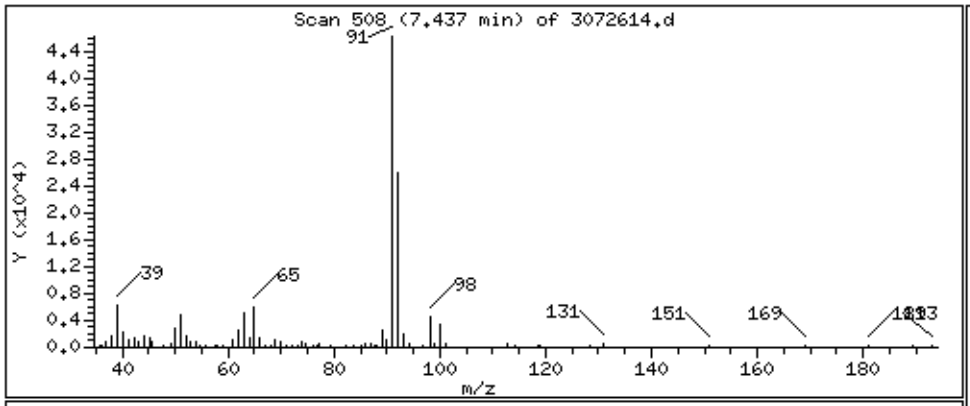
Operator: LD

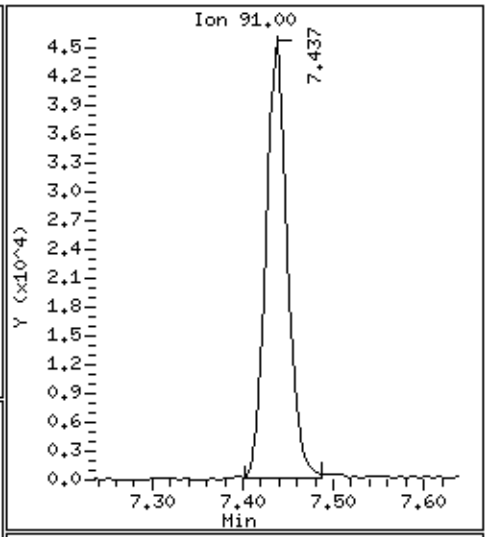
Column phase: RTX-624

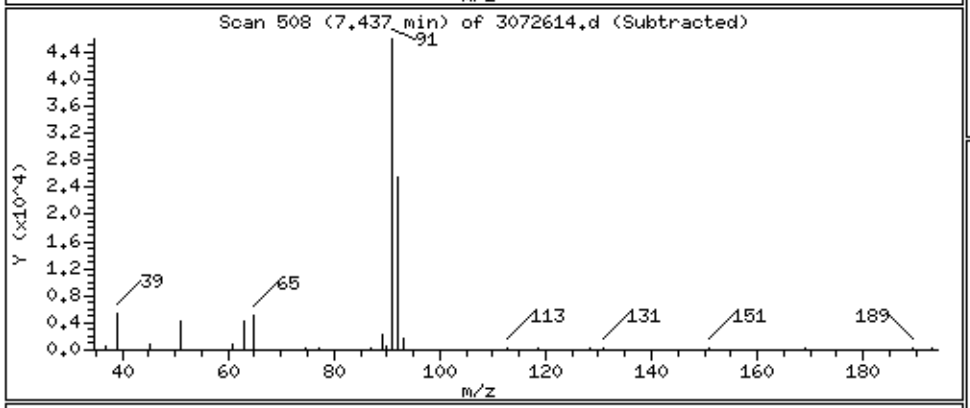
Column diameter: 0.25

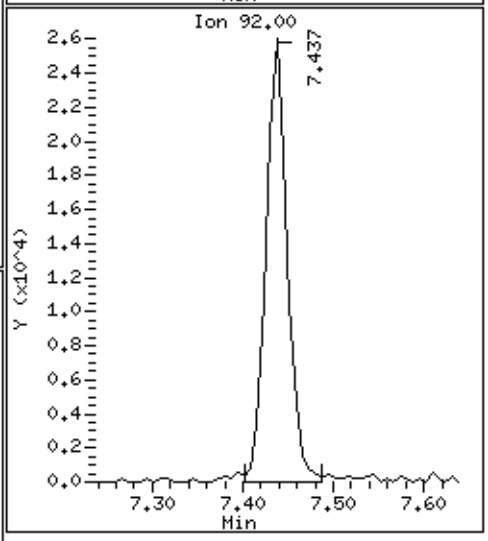
137 Toluene

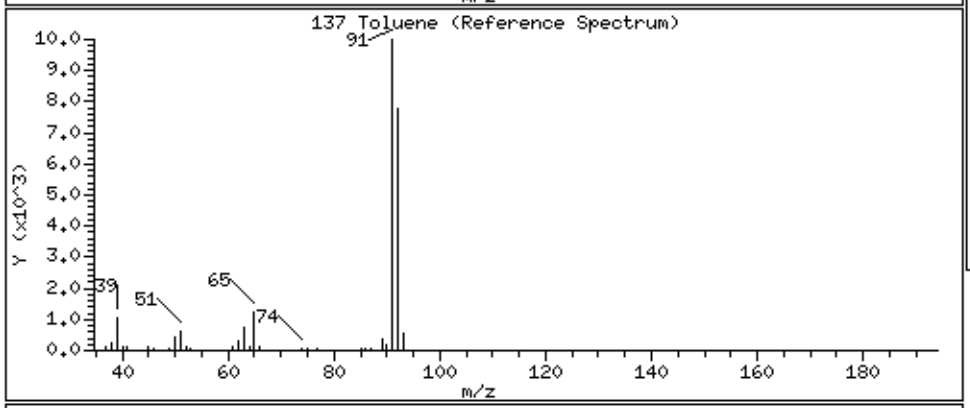
Concentration: 5.277 PPBV

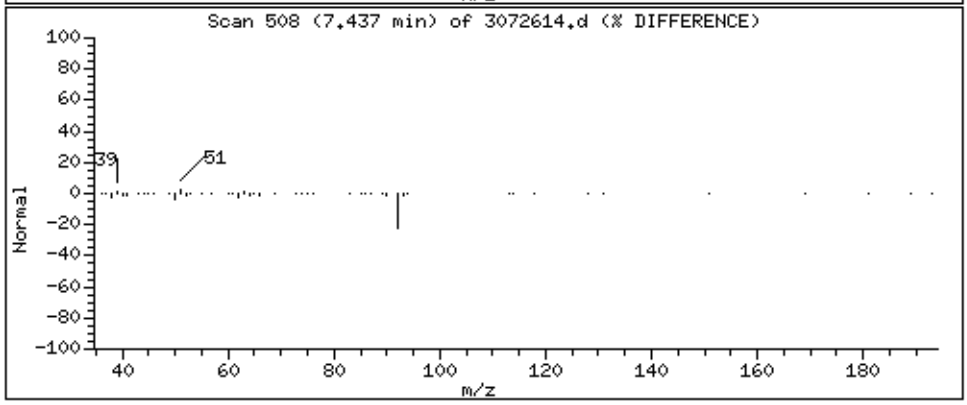












Data File: /chem/msd3.i/26JUL21.b/3072614.d

Date : 26-JUL-2021 17:42

Client ID:

Instrument: msd3.i

Sample Info: 200mL 34000754

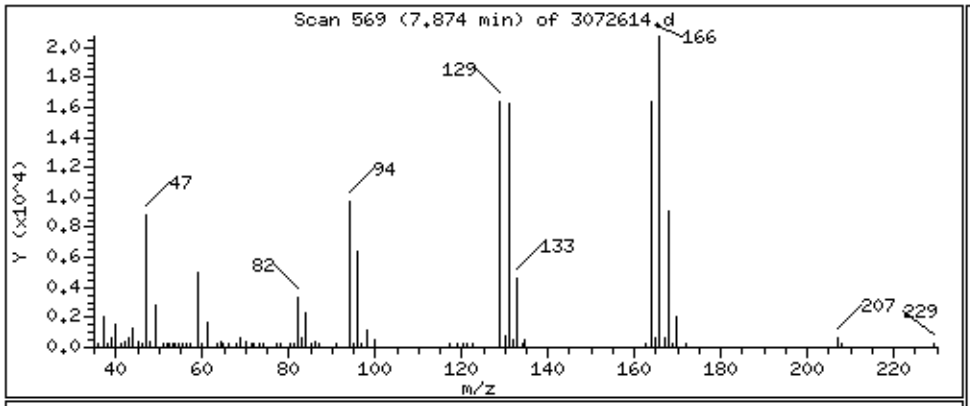
Operator: LD

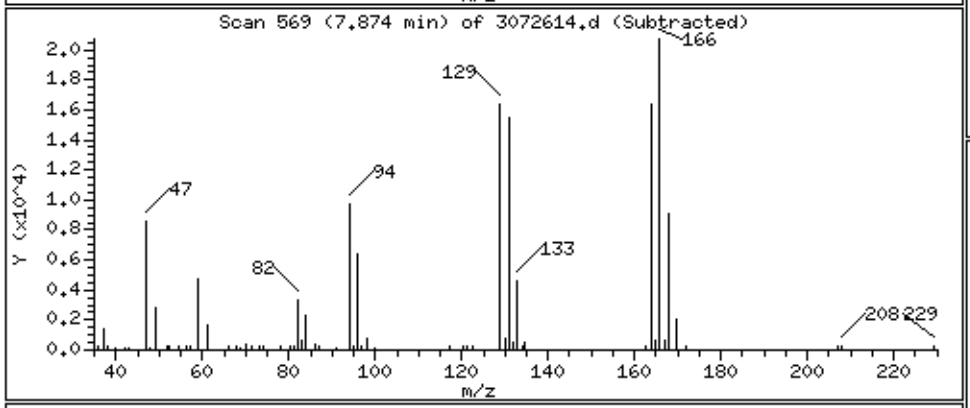
Column phase: RTX-624

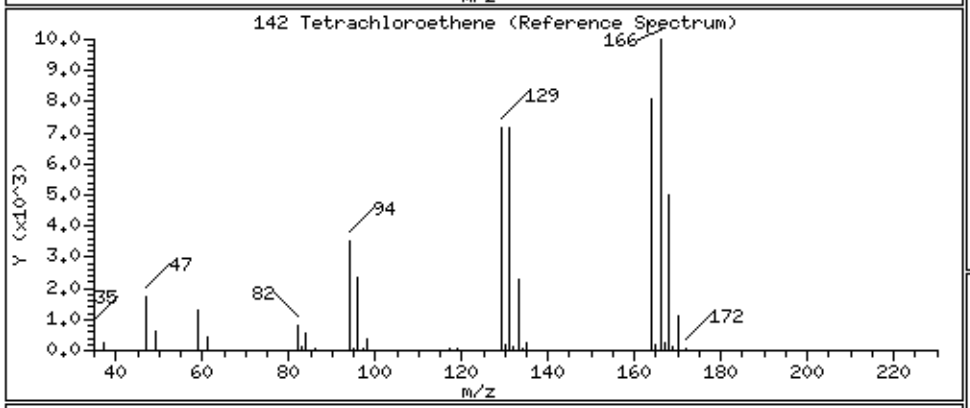
Column diameter: 0.25

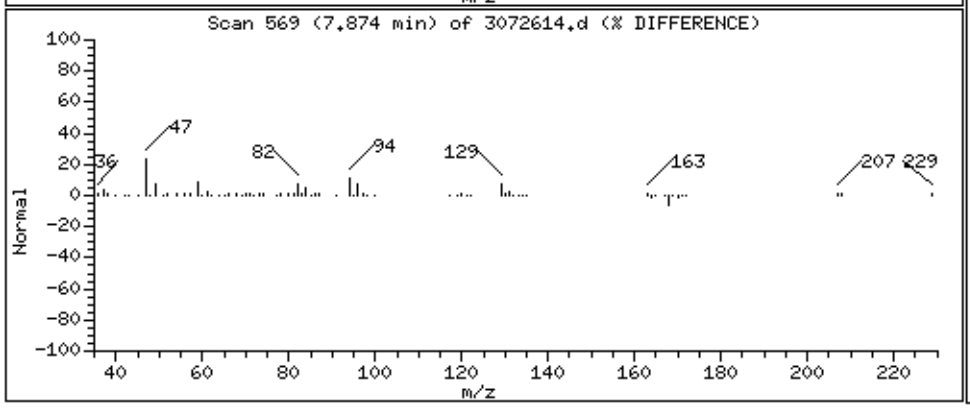
142 Tetrachloroethene

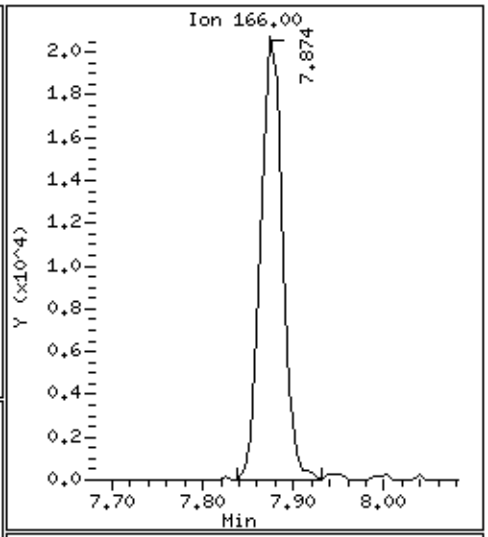
Concentration: 5.202 PPBV

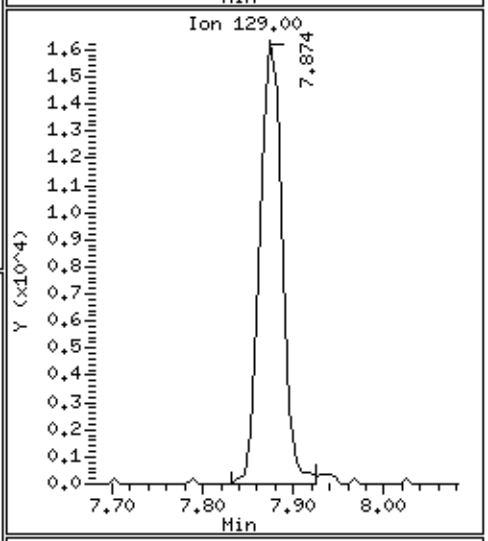


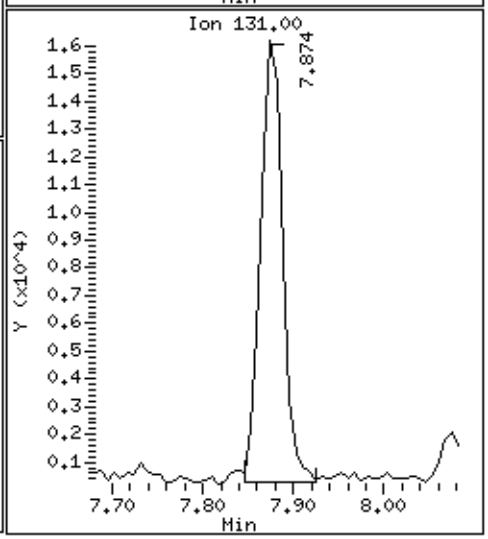












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Client Sample ID: SG-VW38A-02

Lab ID#: 2107284-07A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3072615**	**Date of Collection:**	**7/14/21 10:24:00 AM**
Dil. Factor:	**2.34**	**Date of Analysis:**	**7/26/21 06:11 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1,2-Tetrachloroethane	4.7	Not Detected	32	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.4	Not Detected
1,1,2,2-Tetrachloroethane	1.2	Not Detected	8.0	Not Detected
1,1,2-Trichloroethane	1.2	Not Detected	6.4	Not Detected
1,1-Dichloroethane	1.2	Not Detected	4.7	Not Detected
1,1-Dichloroethene	1.2	Not Detected	4.6	Not Detected
1,1-Difluoroethane	4.7	Not Detected	13	Not Detected
1,2,3-Trichloropropane	4.7	Not Detected	28	Not Detected
1,2,4-Trichlorobenzene	4.7	Not Detected	35	Not Detected
1,2,4-Trimethylbenzene	1.2	Not Detected	5.8	Not Detected
1,2-Dibromo-3-chloropropane	4.7	Not Detected	45	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.0	Not Detected
1,2-Dichlorobenzene	1.2	Not Detected	7.0	Not Detected
1,2-Dichloroethane	1.2	Not Detected	4.7	Not Detected
1,2-Dichloropropane	1.2	Not Detected	5.4	Not Detected
1,3,5-Trimethylbenzene	1.2	Not Detected	5.8	Not Detected
1,3-Butadiene	1.2	Not Detected	2.6	Not Detected
1,3-Dichlorobenzene	1.2	Not Detected	7.0	Not Detected
1,4-Dichlorobenzene	1.2	Not Detected	7.0	Not Detected
1,4-Dioxane	4.7	Not Detected	17	Not Detected
2,2,4-Trimethylpentane	1.2	Not Detected	5.5	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.7	Not Detected	14	Not Detected
2-Hexanone	4.7	Not Detected	19	Not Detected
2-Propanol	4.7	Not Detected	12	Not Detected
3-Chloropropene	4.7	Not Detected	15	Not Detected
4-Ethyltoluene	1.2	Not Detected	5.8	Not Detected
4-Methyl-2-pentanone	1.2	Not Detected	4.8	Not Detected
Acetone	12	Not Detected	28	Not Detected
Acrolein	4.7	Not Detected	11	Not Detected
Acrylonitrile	4.7	Not Detected	10	Not Detected
alpha-Chlorotoluene	1.2	Not Detected	6.0	Not Detected
Benzene	1.2	Not Detected	3.7	Not Detected
Bromodichloromethane	1.2	Not Detected	7.8	Not Detected
Bromoform	1.2	Not Detected	12	Not Detected
Bromomethane	12	Not Detected	45	Not Detected
Carbon Disulfide	4.7	Not Detected	14	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.4	Not Detected
Chlorobenzene	1.2	Not Detected	5.4	Not Detected
Chloroethane	4.7	Not Detected	12	Not Detected
Chloroform	1.2	Not Detected	5.7	Not Detected
Chloromethane	12	Not Detected	24	Not Detected
cis-1,2-Dichloroethene	1.2	Not Detected	4.6	Not Detected

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Client Sample ID: SG-VW38A-02

Lab ID#: 2107284-07A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3072615**	**Date of Collection:**	**7/14/21 10:24:00 AM**
Dil. Factor:	**2.34**	**Date of Analysis:**	**7/26/21 06:11 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,3-Dichloropropene	1.2	Not Detected	5.3	Not Detected
Cumene	1.2	Not Detected	5.8	Not Detected
Cyclohexane	1.2	Not Detected	4.0	Not Detected
Dibromochloromethane	1.2	Not Detected	10	Not Detected
Dibromomethane	4.7	Not Detected	33	Not Detected
Ethanol	12	Not Detected	22	Not Detected
Ethyl Acetate	4.7	Not Detected	17	Not Detected
Ethyl Benzene	1.2	Not Detected	5.1	Not Detected
Ethyl-tert-butyl ether	4.7	Not Detected	20	Not Detected
Freon 11	1.2	Not Detected	6.6	Not Detected
Freon 12	1.2	Not Detected	5.8	Not Detected
Freon 113	1.2	Not Detected	9.0	Not Detected
Freon 114	1.2	Not Detected	8.2	Not Detected
Freon 134a	4.7	Not Detected	20	Not Detected
Heptane	1.2	Not Detected	4.8	Not Detected
Hexachlorobutadiene	4.7	Not Detected	50	Not Detected
Hexachloroethane	4.7	Not Detected	45	Not Detected
Hexane	1.2	Not Detected	4.1	Not Detected
Iodomethane	12	Not Detected	68	Not Detected
Isopropyl ether	4.7	Not Detected	20	Not Detected
m,p-Xylene	1.2	Not Detected	5.1	Not Detected
Methyl tert-butyl ether	4.7	Not Detected	17	Not Detected
Methylene Chloride	12	Not Detected	41	Not Detected
Naphthalene	2.3	Not Detected	12	Not Detected
o-Xylene	1.2	Not Detected	5.1	Not Detected
Propylbenzene	1.2	Not Detected	5.8	Not Detected
Propylene	4.7	Not Detected	8.0	Not Detected
Styrene	1.2	Not Detected	5.0	Not Detected
tert-Amyl methyl ether	4.7	Not Detected	20	Not Detected
tert-Butyl alcohol	4.7	Not Detected	14	Not Detected
Tetrachloroethene	1.2	19	7.9	130
Tetrahydrofuran	1.2	Not Detected	3.4	Not Detected
Toluene	1.2	Not Detected	4.4	Not Detected
TPH ref. to Gasoline (MW=100)	120	Not Detected	480	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.6	Not Detected
trans-1,3-Dichloropropene	1.2	Not Detected	5.3	Not Detected
Trichloroethene	1.2	Not Detected	6.3	Not Detected
Vinyl Acetate	4.7	Not Detected	16	Not Detected
Vinyl Bromide	4.7	Not Detected	20	Not Detected
Vinyl Chloride	1.2	Not Detected	3.0	Not Detected

Container Type: 1 Liter Summa Canister

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Client Sample ID: SG-VW38A-02

Lab ID#: 2107284-07A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3072615**	**Date of Collection:**	**7/14/21 10:24:00 AM**
Dil. Factor:	**2.34**	**Date of Analysis:**	**7/26/21 06:11 PM**

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	96	70-130
4-Bromofluorobenzene	96	70-130

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EPA TO-15/MODIFIED TO14A

Data file : /chem/msd3.i/26JUL21.b/3072615.d
Lab Smp Id: 2107284-07A
Inj Date : 26-JUL-2021 18:11
Operator : LD Inst ID: msd3.i
Smp Info : 200mL 1L1747
Misc Info : 8.6 Hg->9.9 psi
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msd3.i/26JUL21.b/321q0622a.m
Meth Date : 28-Jul-2021 12:16 uexa Quant Type: ISTD
Cal Date : 23-JUN-2021 00:09 Cal File: 3062223.d
Als bottle: 7
Dil Factor: 2.34000
Integrator: HP RTE Compound Sublist: AEC25677.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE		(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 90 Bromochloromethane							CAS #: 74-97-5	
5.284	5.284 (1.000)	130	223936	25.0000			80.00- 120.00	100.00
5.284	5.284 (1.000)	128	178311				48.46- 108.46	79.63
5.270	5.284 (1.000)	49	311015				120.39- 180.39	138.89
* 108 1,4-Difluorobenzene							CAS #: 540-36-3	
6.180	6.166 (1.000)	114	721096	25.0000			80.00- 120.00	100.00
6.180	6.166 (1.000)	88	106008				0.00- 45.52	14.70
* 153 Chlorobenzene-d5							CAS #: 3114-55-4	
8.619	8.612 (1.000)	117	655650	25.0000			80.00- 120.00	100.00
8.619	8.612 (1.000)	82	349101				25.46- 85.46	53.25
$ 104 1,2-Dichloroethane-d4							CAS #: 17060-07-0	
5.816	5.816 (1.101)	65	295582	23.9854	23.985		80.00- 120.00	100.00
5.816	5.816 (1.101)	67	144429				21.66- 81.66	48.86
$ 134 Toluene-d8							CAS #: 2037-26-5	
7.387	7.387 (1.195)	98	749804	25.2453	25.245		80.00- 120.00	100.00
7.387	7.387 (1.195)	70	85465				0.00- 41.47	11.40

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 134 Toluene-d8 (continued)							
7.387	7.387 (1.195)	100	504128			36.47- 96.47	67.23
$ 170 4-Bromofluorobenzene					CAS #: 460-00-4		
9.600	9.601 (1.114)	174	415168	23.9397	23.940	80.00- 120.00	100.00
9.600	9.601 (1.114)	95	462577			93.06- 153.06	111.42
9.600	9.601 (1.114)	176	382768			62.87- 122.87	92.20
142 Tetrachloroethene					CAS #: 127-18-4		
7.881	7.881 (0.914)	166	84074	8.18517	19.153	80.00- 120.00	100.00
7.881	7.881 (0.914)	129	65707			48.71- 108.71	78.15
7.881	7.881 (0.914)	131	62025			46.55- 106.55	73.77

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INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd3.i
Lab File ID: 3072615.d
Lab Smp Id: 2107284-07A
Analysis Type: VOA
Quant Type: ISTD
Operator: LD
Method File: /chem/msd3.i/26JUL21.b/321q0622a.m
Misc Info: 8.6 Hg->9.9 psi

Calibration Date: 26-JUL-2021
Calibration Time: 10:10
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	263983	158390	369576	223936	-15.17
108 1,4-Difluorobenze	833448	500069	1166827	721096	-13.48
153 Chlorobenzene-d5	741338	444803	1037873	655650	-11.56

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.28	4.95	5.61	5.28	-0.00
108 1,4-Difluorobenze	6.17	5.84	6.50	6.18	0.23
153 Chlorobenzene-d5	8.61	8.28	8.94	8.62	0.08

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 28-Jul-2021 12:39

US32TAR1

RECOVERY REPORT

Client Name: Client SDG: 26JUL21
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 2107284-07A
Level: LOW Operator: LD
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT20_new.spk Quant Type: ISTD
Sublist File: AEC25677.sub
Method File: /chem/msd3.i/26JUL21.b/321q0622a.m
Misc Info: 8.6 Hg->9.9 psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 104 1,2-Dichloroethan	25.000	23.985	95.94	70-130
$ 134 Toluene-d8	25.000	25.245	100.98	70-130
$ 170 4-Bromofluorobenz	25.000	23.940	95.76	70-130

Data File: /chem/msd3.i/26JUL21.b/3072615.d

Date : 26-JUL-2021 18:11

Client ID:

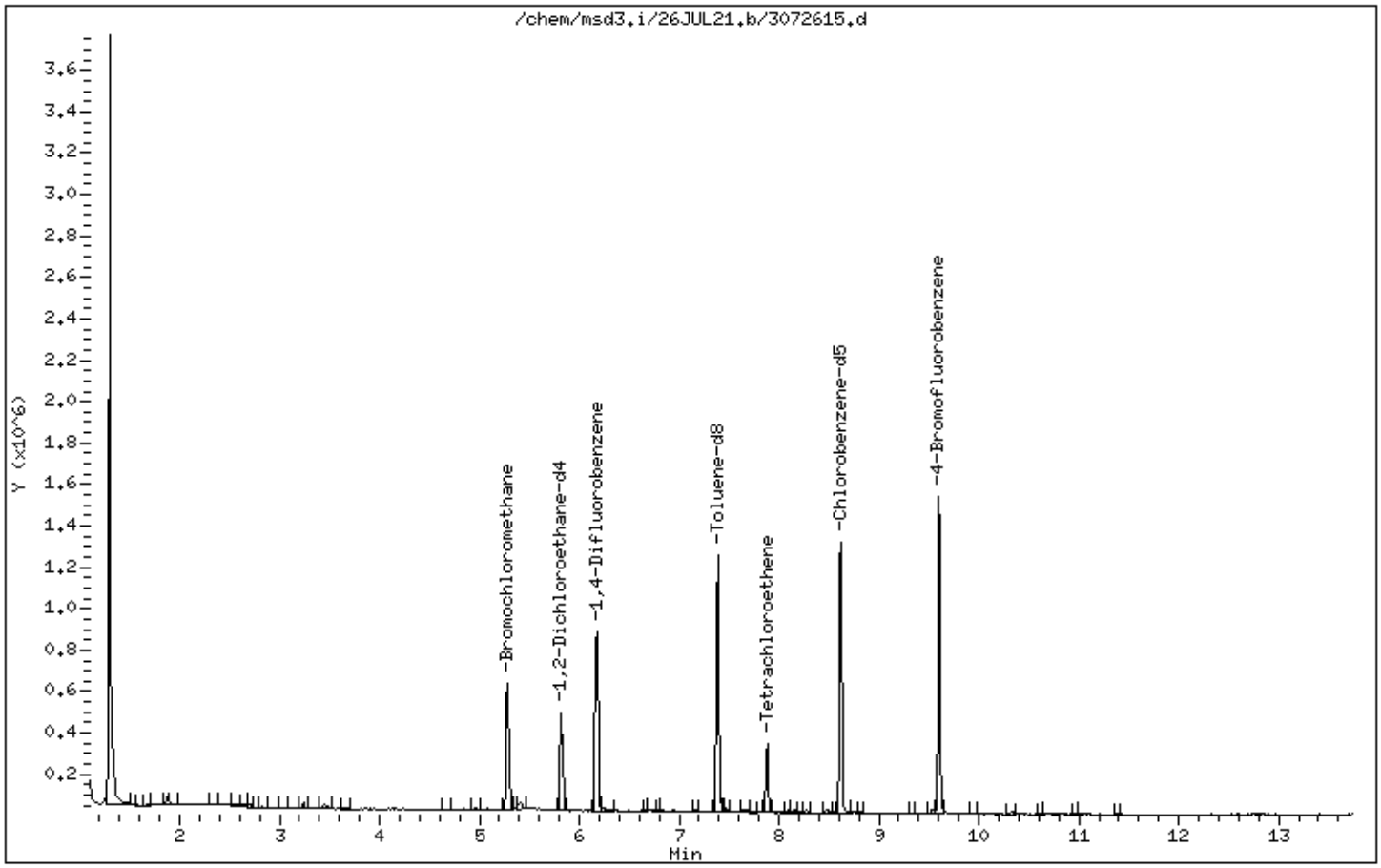
Instrument: msd3.i

Sample Info: 200mL 1L1747

Operator: LD

Column phase: RTX-624

Column diameter: 0.25



Data File: /chem/msd3.i/26JUL21.b/3072615.d

Date : 26-JUL-2021 18:11

Client ID:

Instrument: msd3.i

Sample Info: 200mL 1L1747

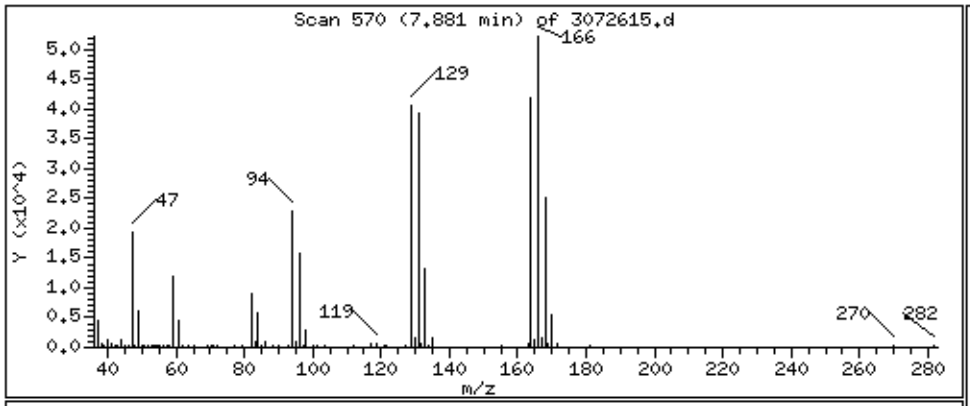
Operator: LD

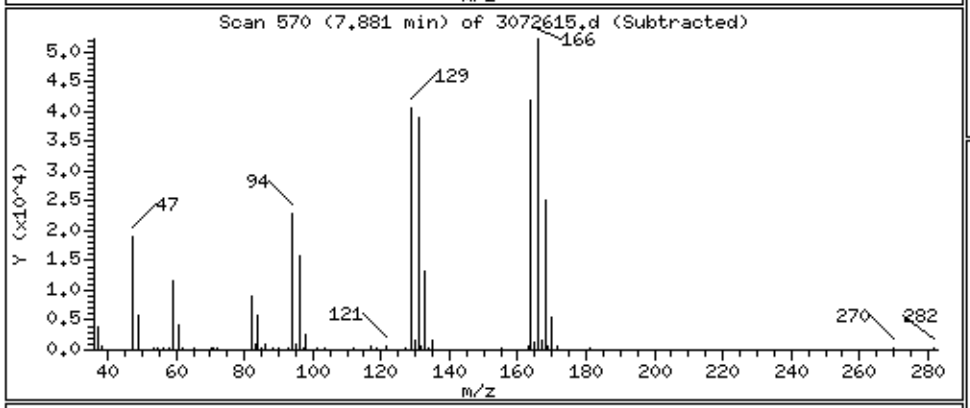
Column phase: RTX-624

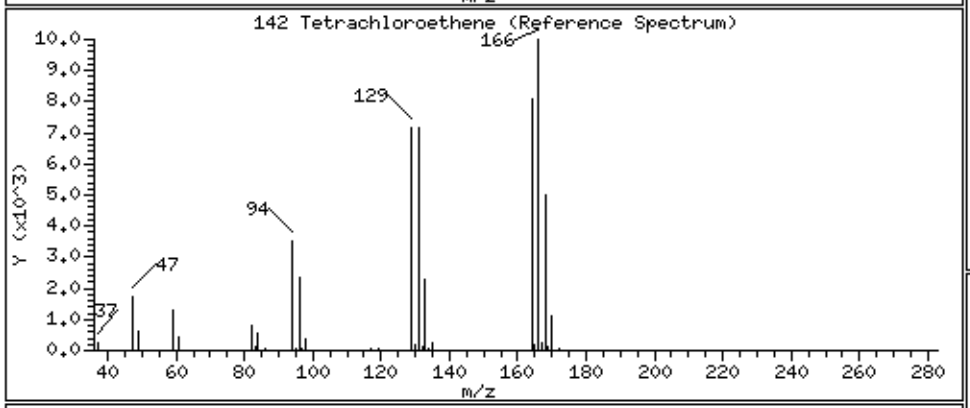
Column diameter: 0.25

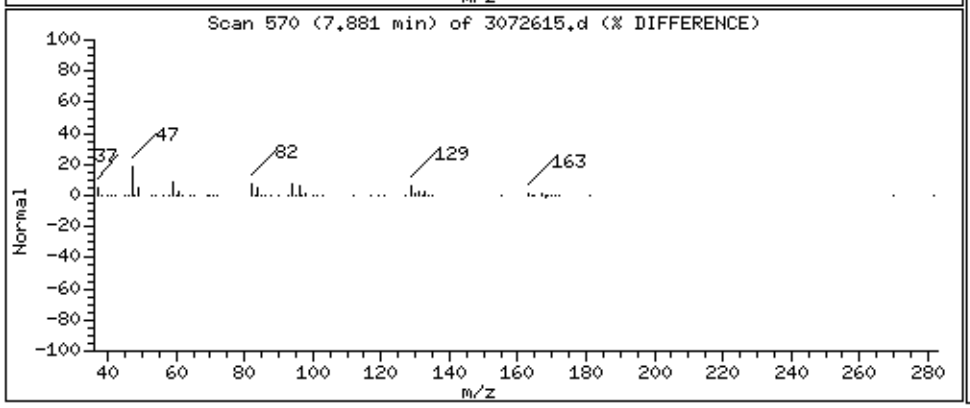
142 Tetrachloroethene

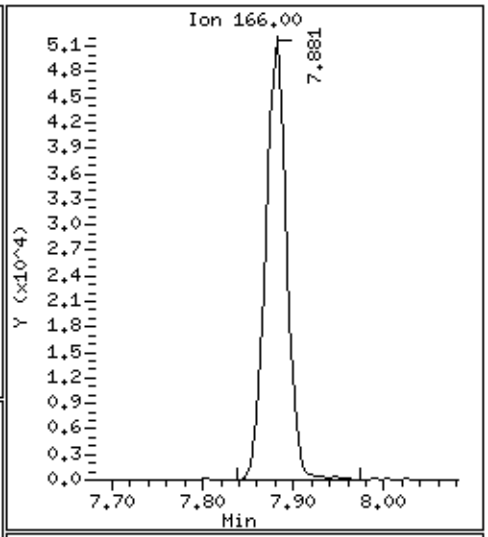
Concentration: 19.153 PPBV

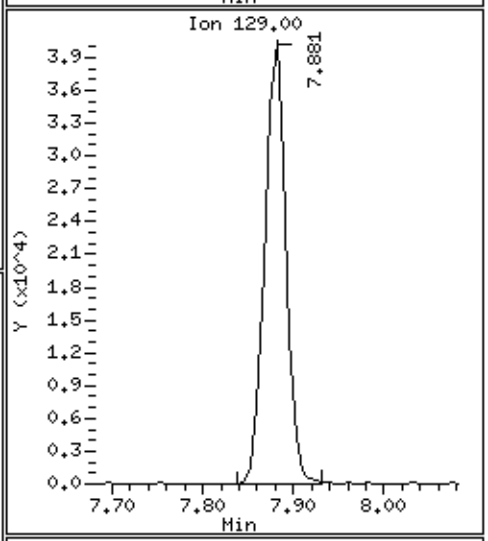


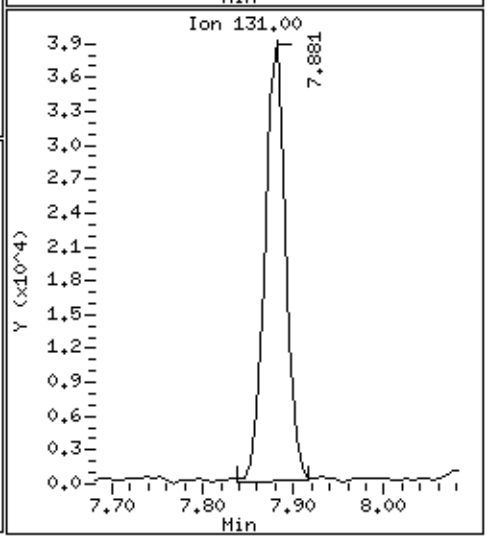












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Client Sample ID: SG-VW38A-03

Lab ID#: 2107284-08A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3072616**	**Date of Collection:**	**7/14/21 10:24:00 AM**
Dil. Factor:	**2.32**	**Date of Analysis:**	**7/26/21 06:40 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1,2-Tetrachloroethane	4.6	Not Detected	32	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.3	Not Detected
1,1,2,2-Tetrachloroethane	1.2	Not Detected	8.0	Not Detected
1,1,2-Trichloroethane	1.2	Not Detected	6.3	Not Detected
1,1-Dichloroethane	1.2	Not Detected	4.7	Not Detected
1,1-Dichloroethene	1.2	Not Detected	4.6	Not Detected
1,1-Difluoroethane	4.6	Not Detected	12	Not Detected
1,2,3-Trichloropropane	4.6	Not Detected	28	Not Detected
1,2,4-Trichlorobenzene	4.6	Not Detected	34	Not Detected
1,2,4-Trimethylbenzene	1.2	Not Detected	5.7	Not Detected
1,2-Dibromo-3-chloropropane	4.6	Not Detected	45	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	8.9	Not Detected
1,2-Dichlorobenzene	1.2	Not Detected	7.0	Not Detected
1,2-Dichloroethane	1.2	Not Detected	4.7	Not Detected
1,2-Dichloropropane	1.2	Not Detected	5.4	Not Detected
1,3,5-Trimethylbenzene	1.2	Not Detected	5.7	Not Detected
1,3-Butadiene	1.2	Not Detected	2.6	Not Detected
1,3-Dichlorobenzene	1.2	Not Detected	7.0	Not Detected
1,4-Dichlorobenzene	1.2	Not Detected	7.0	Not Detected
1,4-Dioxane	4.6	Not Detected	17	Not Detected
2,2,4-Trimethylpentane	1.2	Not Detected	5.4	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.6	Not Detected	14	Not Detected
2-Hexanone	4.6	Not Detected	19	Not Detected
2-Propanol	4.6	4.7	11	11
3-Chloropropene	4.6	Not Detected	14	Not Detected
4-Ethyltoluene	1.2	Not Detected	5.7	Not Detected
4-Methyl-2-pentanone	1.2	Not Detected	4.8	Not Detected
Acetone	12	13	28	31
Acrolein	4.6	Not Detected	11	Not Detected
Acrylonitrile	4.6	Not Detected	10	Not Detected
alpha-Chlorotoluene	1.2	Not Detected	6.0	Not Detected
Benzene	1.2	Not Detected	3.7	Not Detected
Bromodichloromethane	1.2	Not Detected	7.8	Not Detected
Bromoform	1.2	Not Detected	12	Not Detected
Bromomethane	12	Not Detected	45	Not Detected
Carbon Disulfide	4.6	Not Detected	14	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.3	Not Detected
Chlorobenzene	1.2	Not Detected	5.3	Not Detected
Chloroethane	4.6	Not Detected	12	Not Detected
Chloroform	1.2	Not Detected	5.7	Not Detected
Chloromethane	12	Not Detected	24	Not Detected
cis-1,2-Dichloroethene	1.2	Not Detected	4.6	Not Detected

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Client Sample ID: SG-VW38A-03

Lab ID#: 2107284-08A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3072616**	**Date of Collection:**	**7/14/21 10:24:00 AM**
Dil. Factor:	**2.32**	**Date of Analysis:**	**7/26/21 06:40 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,3-Dichloropropene	1.2	Not Detected	5.3	Not Detected
Cumene	1.2	Not Detected	5.7	Not Detected
Cyclohexane	1.2	Not Detected	4.0	Not Detected
Dibromochloromethane	1.2	Not Detected	9.9	Not Detected
Dibromomethane	4.6	Not Detected	33	Not Detected
Ethanol	12	Not Detected	22	Not Detected
Ethyl Acetate	4.6	Not Detected	17	Not Detected
Ethyl Benzene	1.2	Not Detected	5.0	Not Detected
Ethyl-tert-butyl ether	4.6	Not Detected	19	Not Detected
Freon 11	1.2	Not Detected	6.5	Not Detected
Freon 12	1.2	Not Detected	5.7	Not Detected
Freon 113	1.2	Not Detected	8.9	Not Detected
Freon 114	1.2	Not Detected	8.1	Not Detected
Freon 134a	4.6	Not Detected	19	Not Detected
Heptane	1.2	Not Detected	4.8	Not Detected
Hexachlorobutadiene	4.6	Not Detected	49	Not Detected
Hexachloroethane	4.6	Not Detected	45	Not Detected
Hexane	1.2	Not Detected	4.1	Not Detected
Iodomethane	12	Not Detected	67	Not Detected
Isopropyl ether	4.6	Not Detected	19	Not Detected
m,p-Xylene	1.2	Not Detected	5.0	Not Detected
Methyl tert-butyl ether	4.6	Not Detected	17	Not Detected
Methylene Chloride	12	Not Detected	40	Not Detected
Naphthalene	2.3	Not Detected	12	Not Detected
o-Xylene	1.2	Not Detected	5.0	Not Detected
Propylbenzene	1.2	Not Detected	5.7	Not Detected
Propylene	4.6	Not Detected	8.0	Not Detected
Styrene	1.2	Not Detected	4.9	Not Detected
tert-Amyl methyl ether	4.6	Not Detected	19	Not Detected
tert-Butyl alcohol	4.6	Not Detected	14	Not Detected
Tetrachloroethene	1.2	18	7.9	120
Tetrahydrofuran	1.2	Not Detected	3.4	Not Detected
Toluene	1.2	Not Detected	4.4	Not Detected
TPH ref. to Gasoline (MW=100)	120	Not Detected	470	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.6	Not Detected
trans-1,3-Dichloropropene	1.2	Not Detected	5.3	Not Detected
Trichloroethene	1.2	Not Detected	6.2	Not Detected
Vinyl Acetate	4.6	Not Detected	16	Not Detected
Vinyl Bromide	4.6	Not Detected	20	Not Detected
Vinyl Chloride	1.2	Not Detected	3.0	Not Detected

Container Type: 1 Liter Summa Canister

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Client Sample ID: SG-VW38A-03

Lab ID#: 2107284-08A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3072616**	**Date of Collection:**	**7/14/21 10:24:00 AM**
Dil. Factor:	**2.32**	**Date of Analysis:**	**7/26/21 06:40 PM**

Surrogates	%Recovery	Method Limits
Toluene-d8	96	70-130
1,2-Dichloroethane-d4	96	70-130
4-Bromofluorobenzene	94	70-130

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EPA TO-15/MODIFIED TO14A

Data file : /chem/msd3.i/26JUL21.b/3072616.d
Lab Smp Id: 2107284-08A
Inj Date : 26-JUL-2021 18:40
Operator : LD Inst ID: msd3.i
Smp Info : 200mL 3009
Misc Info : 8.4 Hg->9.9 psi
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msd3.i/26JUL21.b/321q0622a.m
Meth Date : 28-Jul-2021 12:16 uexa Quant Type: ISTD
Cal Date : 23-JUN-2021 00:09 Cal File: 3062223.d
Als bottle: 8
Dil Factor: 2.32000
Integrator: HP RTE Compound Sublist: AEC25677.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE		(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 90 Bromochloromethane							CAS #: 74-97-5	
5.270	5.284 (1.000)	130	302092	25.0000			80.00- 120.00	100.00
5.270	5.284 (1.000)	128	235512				48.46- 108.46	77.96
5.270	5.284 (1.000)	49	423571				120.39- 180.39	140.21
* 108 1,4-Difluorobenzene							CAS #: 540-36-3	
6.166	6.166 (1.000)	114	992557	25.0000			80.00- 120.00	100.00
6.166	6.166 (1.000)	88	146149				0.00- 45.52	14.72
* 153 Chlorobenzene-d5							CAS #: 3114-55-4	
8.612	8.612 (1.000)	117	885330	25.0000			80.00- 120.00	100.00
8.612	8.612 (1.000)	82	466915				25.46- 85.46	52.74
$ 104 1,2-Dichloroethane-d4							CAS #: 17060-07-0	
5.816	5.816 (1.104)	65	398934	23.9968	23.997		80.00- 120.00	100.00
5.816	5.816 (1.104)	67	193241				21.66- 81.66	48.44
$ 134 Toluene-d8							CAS #: 2037-26-5	
7.380	7.387 (1.197)	98	981582	24.0103	24.010		80.00- 120.00	100.00
7.380	7.387 (1.197)	70	110363				0.00- 41.47	11.24

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 134 Toluene-d8 (continued)							
7.380	7.387 (1.197)	100	641357			36.47- 96.47	65.34
$ 170 4-Bromofluorobenzene					CAS #: 460-00-4		
9.601	9.601 (1.115)	174	551469	23.5495	23.550	80.00- 120.00	100.00
9.601	9.601 (1.115)	95	620047			93.06- 153.06	112.44
9.601	9.601 (1.115)	176	511197			62.87- 122.87	92.70
47 Acetone					CAS #: 67-64-1		
3.242	3.214 (0.615)	58	28430	5.61255	13.021	80.00- 120.00	100.00
3.242	3.214 (0.615)	43	98938			299.66- 359.66	348.00
52 2-Propanol					CAS #: 67-63-0		
3.451	3.395 (0.655)	45	36717	2.01551	4.676	80.00- 120.00	100.00
3.451	3.395 (0.655)	43	8186			0.00- 48.61	22.29
142 Tetrachloroethene					CAS #: 127-18-4		
7.874	7.881 (0.914)	166	108319	7.80975	18.119	80.00- 120.00	100.00
7.874	7.881 (0.914)	129	83127			48.71- 108.71	76.74
7.874	7.881 (0.914)	131	79731			46.55- 106.55	73.61

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd3.i
Lab File ID: 3072616.d
Lab Smp Id: 2107284-08A
Analysis Type: VOA
Quant Type: ISTD
Operator: LD
Method File: /chem/msd3.i/26JUL21.b/321q0622a.m
Misc Info: 8.4 Hg->9.9 psi

Calibration Date: 26-JUL-2021
Calibration Time: 10:10
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	263983	158390	369576	302092	14.44
108 1,4-Difluorobenze	833448	500069	1166827	992557	19.09
153 Chlorobenzene-d5	741338	444803	1037873	885330	19.42

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.28	4.95	5.61	5.27	-0.26
108 1,4-Difluorobenze	6.17	5.84	6.50	6.17	0.00
153 Chlorobenzene-d5	8.61	8.28	8.94	8.61	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 28-Jul-2021 12:42

US32TAR1

RECOVERY REPORT

Client Name: Client SDG: 26JUL21
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 2107284-08A
Level: LOW Operator: LD
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT20_new.spk Quant Type: ISTD
Sublist File: AEC25677.sub
Method File: /chem/msd3.i/26JUL21.b/321q0622a.m
Misc Info: 8.4 Hg->9.9 psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 104 1,2-Dichloroethan	25.000	23.997	95.99	70-130
$ 134 Toluene-d8	25.000	24.010	96.04	70-130
$ 170 4-Bromofluorobenz	25.000	23.550	94.20	70-130

Data File: /chem/msd3.i/26JUL21.b/3072616.d

Date : 26-JUL-2021 18:40

Client ID:

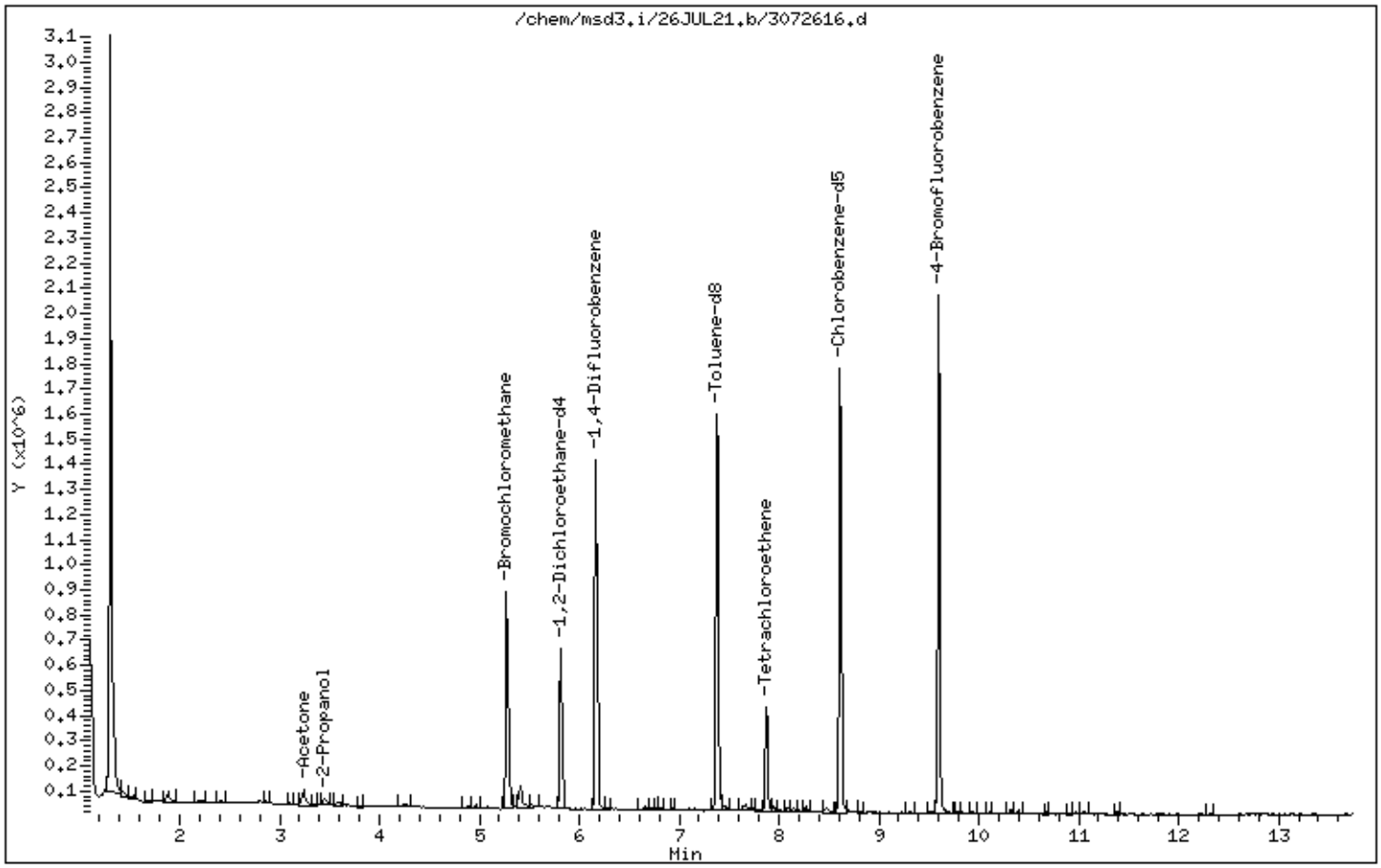
Instrument: msd3.i

Sample Info: 200mL 3009

Operator: LD

Column phase: RTX-624

Column diameter: 0.25



Data File: /chem/msd3.i/26JUL21.b/3072616.d

Date : 26-JUL-2021 18:40

Client ID:

Instrument: msd3.i

Sample Info: 200mL 3009

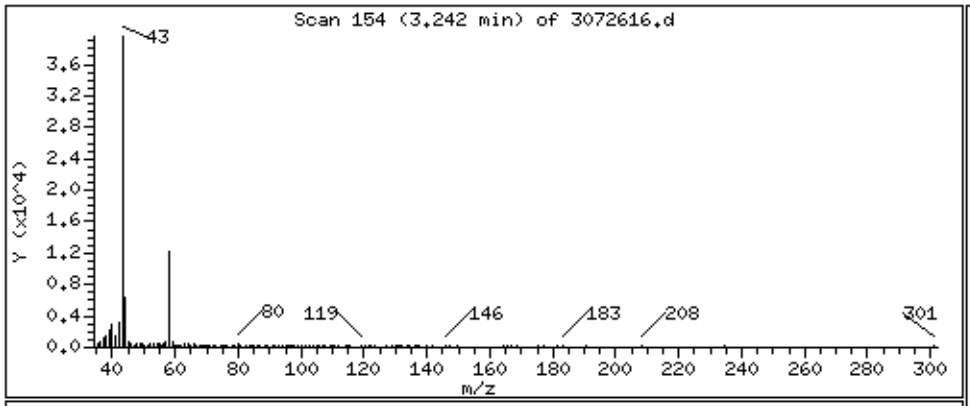
Operator: LD

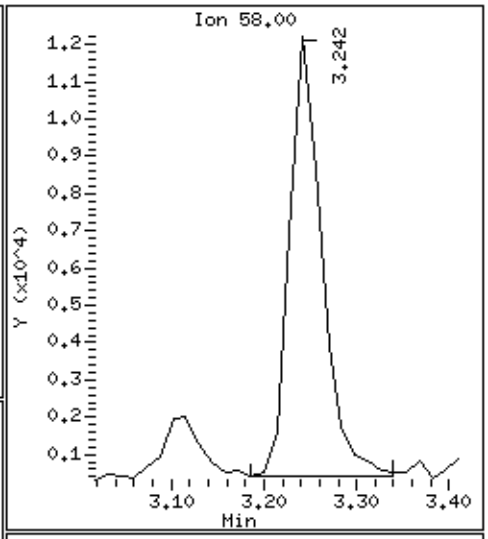
Column phase: RTX-624

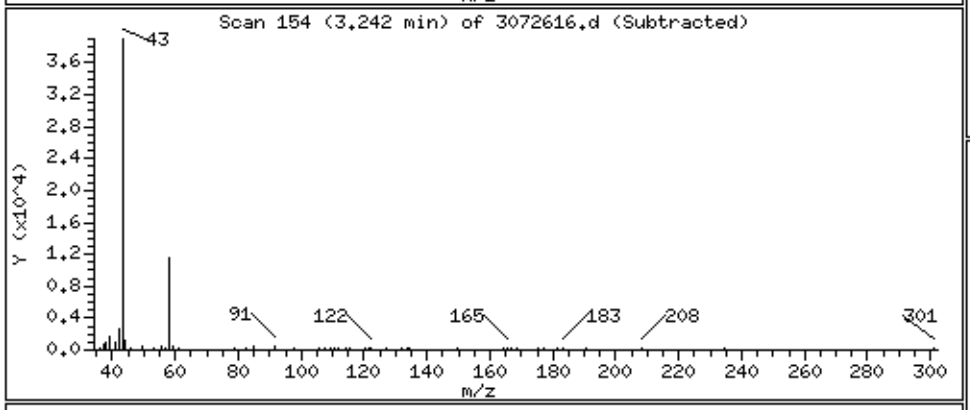
Column diameter: 0.25

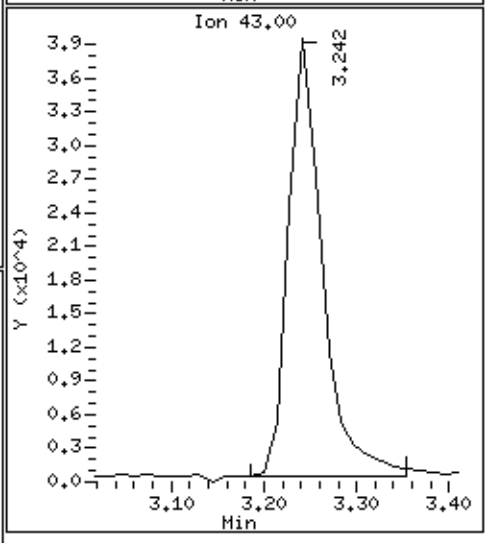
47 Acetone

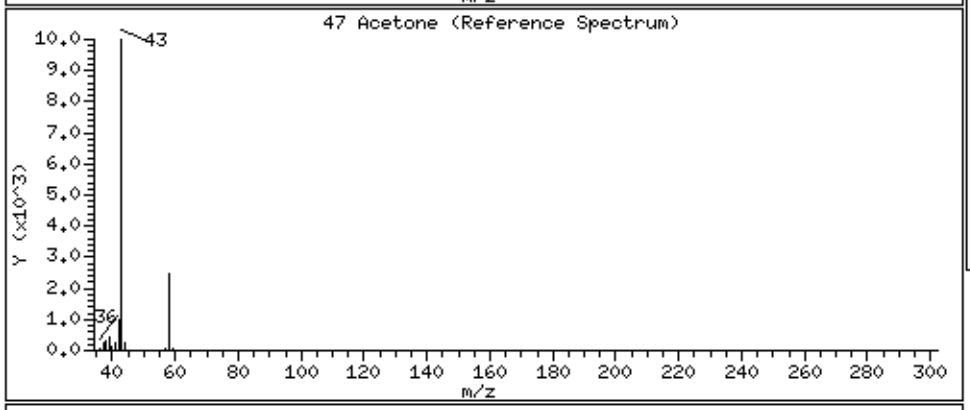
Concentration: 13.021 PPBV

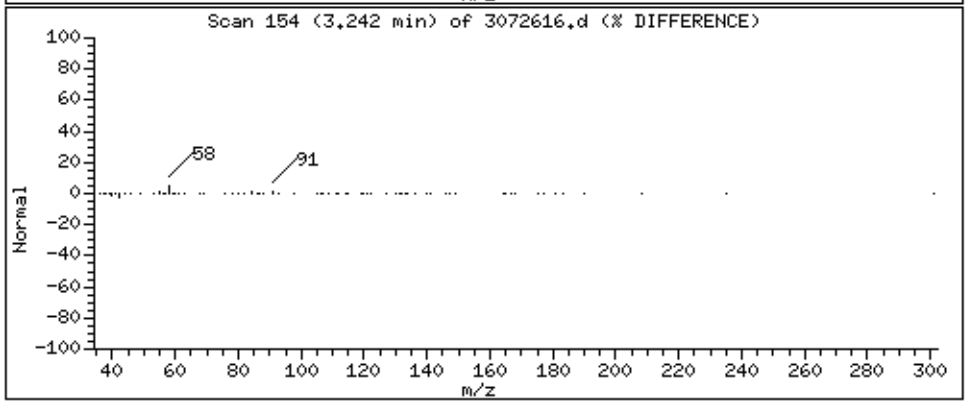












Data File: /chem/msd3.i/26JUL21.b/3072616.d

Date : 26-JUL-2021 18:40

Client ID:

Instrument: msd3.i

Sample Info: 200mL 3009

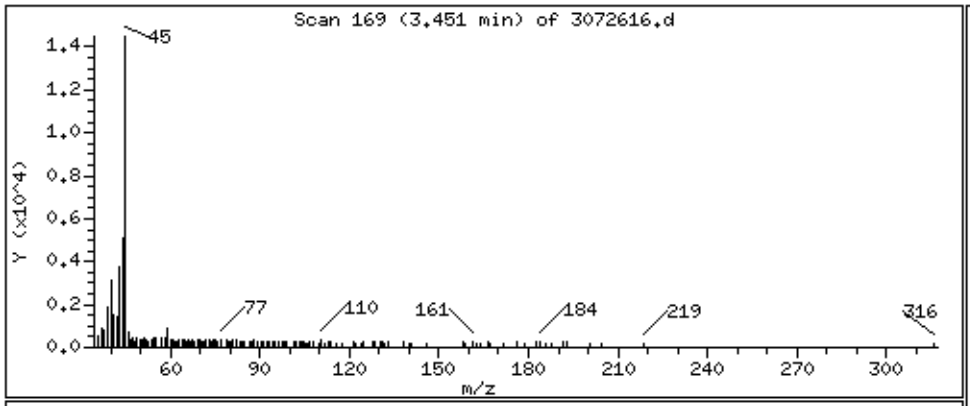
Operator: LD

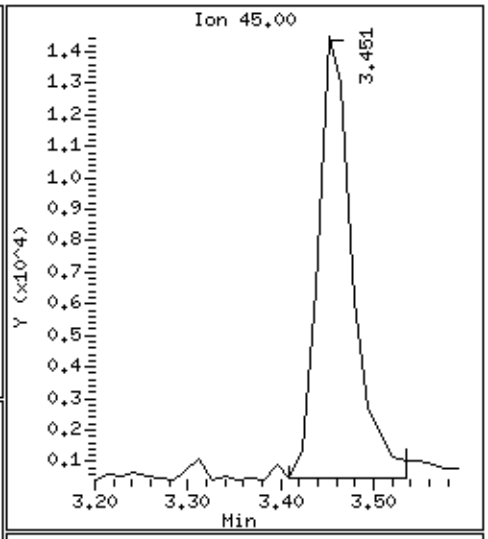
Column phase: RTX-624

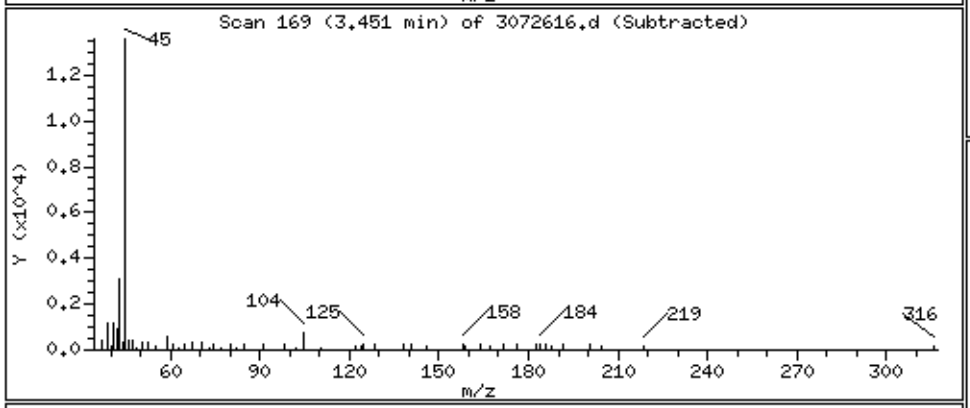
Column diameter: 0.25

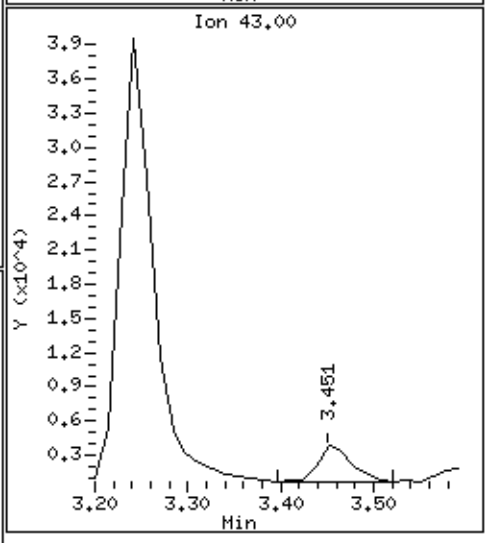
52 2-Propanol

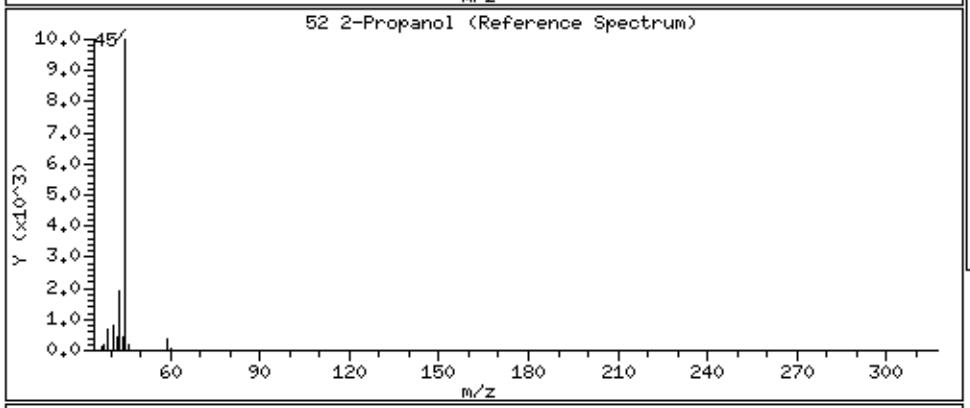
Concentration: 4.676 PPBV

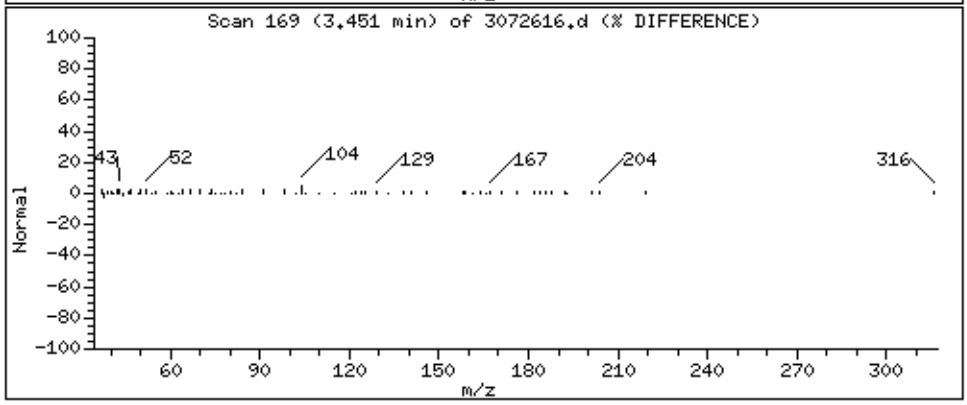












Data File: /chem/msd3.i/26JUL21.b/3072616.d

Date : 26-JUL-2021 18:40

Client ID:

Instrument: msd3.i

Sample Info: 200mL 3009

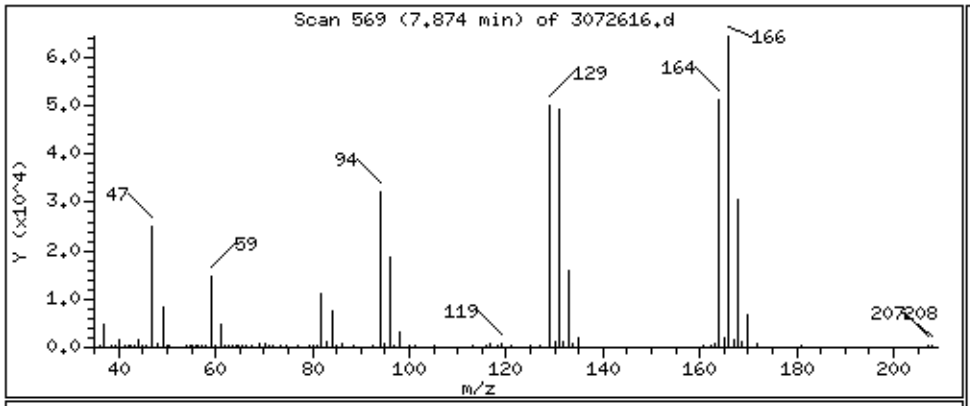
Operator: LD

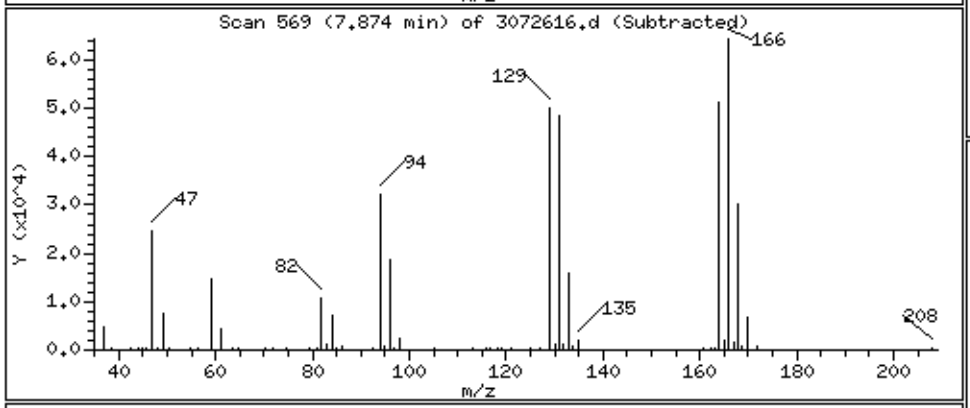
Column phase: RTX-624

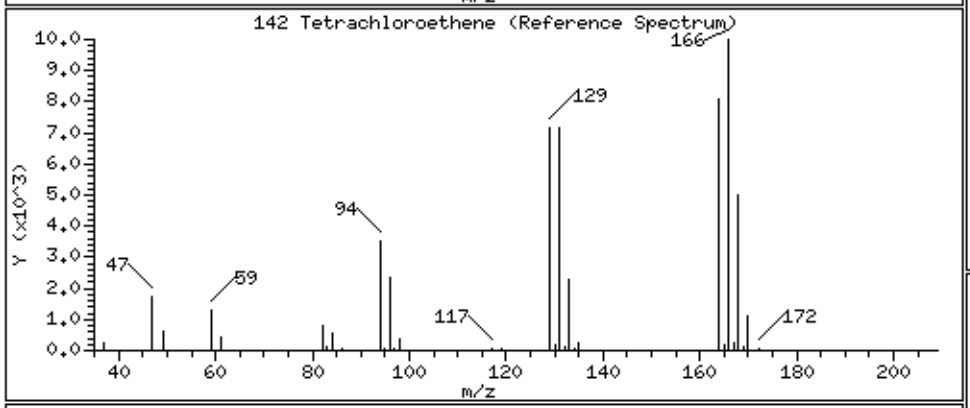
Column diameter: 0.25

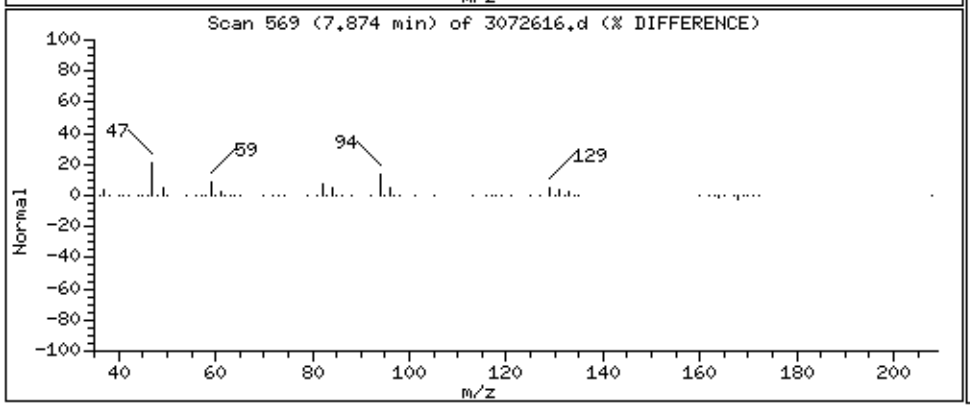
142 Tetrachloroethene

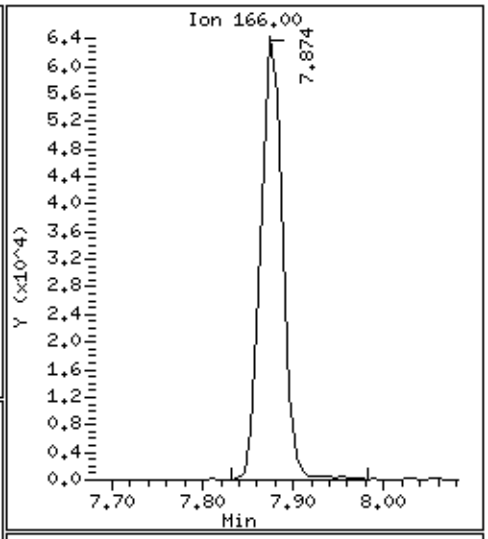
Concentration: 18.119 PPBV

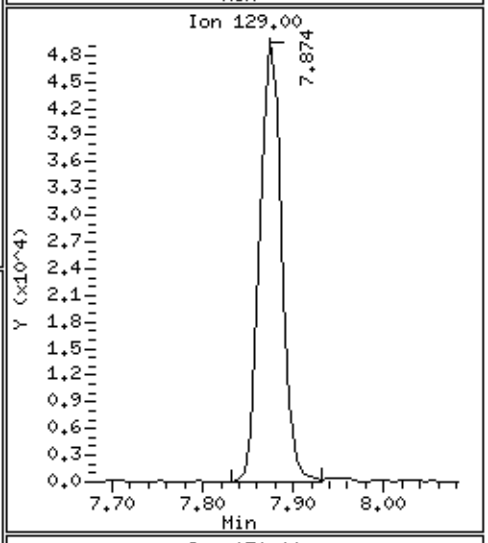


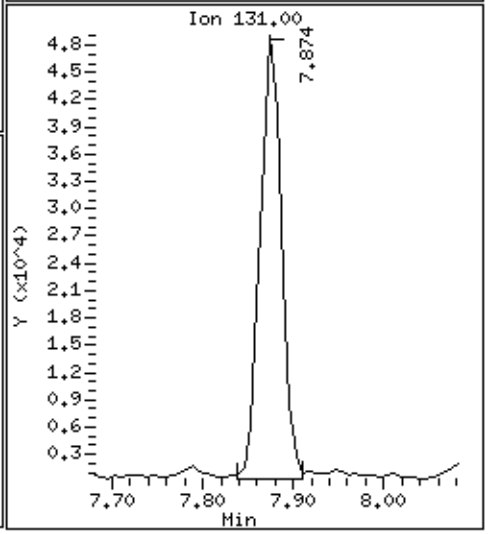












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Client Sample ID: SG-VW15-02

Lab ID#: 2107284-09A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3072617**	**Date of Collection:**	**7/14/21 11:34:00 AM**
Dil. Factor:	**2.36**	**Date of Analysis:**	**7/26/21 07:09 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1,2-Tetrachloroethane	4.7	Not Detected	32	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.4	Not Detected
1,1,2,2-Tetrachloroethane	1.2	Not Detected	8.1	Not Detected
1,1,2-Trichloroethane	1.2	Not Detected	6.4	Not Detected
1,1-Dichloroethane	1.2	Not Detected	4.8	Not Detected
1,1-Dichloroethene	1.2	Not Detected	4.7	Not Detected
1,1-Difluoroethane	4.7	Not Detected	13	Not Detected
1,2,3-Trichloropropane	4.7	Not Detected	28	Not Detected
1,2,4-Trichlorobenzene	4.7	Not Detected	35	Not Detected
1,2,4-Trimethylbenzene	1.2	Not Detected	5.8	Not Detected
1,2-Dibromo-3-chloropropane	4.7	Not Detected	46	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.1	Not Detected
1,2-Dichlorobenzene	1.2	Not Detected	7.1	Not Detected
1,2-Dichloroethane	1.2	Not Detected	4.8	Not Detected
1,2-Dichloropropane	1.2	Not Detected	5.4	Not Detected
1,3,5-Trimethylbenzene	1.2	Not Detected	5.8	Not Detected
1,3-Butadiene	1.2	Not Detected	2.6	Not Detected
1,3-Dichlorobenzene	1.2	Not Detected	7.1	Not Detected
1,4-Dichlorobenzene	1.2	Not Detected	7.1	Not Detected
1,4-Dioxane	4.7	Not Detected	17	Not Detected
2,2,4-Trimethylpentane	1.2	Not Detected	5.5	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.7	Not Detected	14	Not Detected
2-Hexanone	4.7	Not Detected	19	Not Detected
2-Propanol	4.7	Not Detected	12	Not Detected
3-Chloropropene	4.7	Not Detected	15	Not Detected
4-Ethyltoluene	1.2	Not Detected	5.8	Not Detected
4-Methyl-2-pentanone	1.2	Not Detected	4.8	Not Detected
Acetone	12	14	28	33
Acrolein	4.7	Not Detected	11	Not Detected
Acrylonitrile	4.7	Not Detected	10	Not Detected
alpha-Chlorotoluene	1.2	Not Detected	6.1	Not Detected
Benzene	1.2	Not Detected	3.8	Not Detected
Bromodichloromethane	1.2	Not Detected	7.9	Not Detected
Bromoform	1.2	Not Detected	12	Not Detected
Bromomethane	12	Not Detected	46	Not Detected
Carbon Disulfide	4.7	Not Detected	15	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.4	Not Detected
Chlorobenzene	1.2	Not Detected	5.4	Not Detected
Chloroethane	4.7	Not Detected	12	Not Detected
Chloroform	1.2	Not Detected	5.8	Not Detected
Chloromethane	12	Not Detected	24	Not Detected
cis-1,2-Dichloroethene	1.2	Not Detected	4.7	Not Detected

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Client Sample ID: SG-VW15-02

Lab ID#: 2107284-09A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3072617**	**Date of Collection:**	**7/14/21 11:34:00 AM**
Dil. Factor:	**2.36**	**Date of Analysis:**	**7/26/21 07:09 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,3-Dichloropropene	1.2	Not Detected	5.4	Not Detected
Cumene	1.2	Not Detected	5.8	Not Detected
Cyclohexane	1.2	Not Detected	4.1	Not Detected
Dibromochloromethane	1.2	Not Detected	10	Not Detected
Dibromomethane	4.7	Not Detected	34	Not Detected
Ethanol	12	Not Detected	22	Not Detected
Ethyl Acetate	4.7	Not Detected	17	Not Detected
Ethyl Benzene	1.2	Not Detected	5.1	Not Detected
Ethyl-tert-butyl ether	4.7	Not Detected	20	Not Detected
Freon 11	1.2	Not Detected	6.6	Not Detected
Freon 12	1.2	Not Detected	5.8	Not Detected
Freon 113	1.2	Not Detected	9.0	Not Detected
Freon 114	1.2	Not Detected	8.2	Not Detected
Freon 134a	4.7	Not Detected	20	Not Detected
Heptane	1.2	Not Detected	4.8	Not Detected
Hexachlorobutadiene	4.7	Not Detected	50	Not Detected
Hexachloroethane	4.7	Not Detected	46	Not Detected
Hexane	1.2	Not Detected	4.2	Not Detected
Iodomethane	12	Not Detected	68	Not Detected
Isopropyl ether	4.7	Not Detected	20	Not Detected
m,p-Xylene	1.2	Not Detected	5.1	Not Detected
Methyl tert-butyl ether	4.7	Not Detected	17	Not Detected
Methylene Chloride	12	Not Detected	41	Not Detected
Naphthalene	2.4	Not Detected	12	Not Detected
o-Xylene	1.2	Not Detected	5.1	Not Detected
Propylbenzene	1.2	Not Detected	5.8	Not Detected
Propylene	4.7	Not Detected	8.1	Not Detected
Styrene	1.2	Not Detected	5.0	Not Detected
tert-Amyl methyl ether	4.7	Not Detected	20	Not Detected
tert-Butyl alcohol	4.7	Not Detected	14	Not Detected
Tetrachloroethene	1.2	Not Detected	8.0	Not Detected
Tetrahydrofuran	1.2	3.2	3.5	9.6
Toluene	1.2	Not Detected	4.4	Not Detected
TPH ref. to Gasoline (MW=100)	120	Not Detected	480	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.7	Not Detected
trans-1,3-Dichloropropene	1.2	Not Detected	5.4	Not Detected
Trichloroethene	1.2	Not Detected	6.3	Not Detected
Vinyl Acetate	4.7	Not Detected	17	Not Detected
Vinyl Bromide	4.7	Not Detected	21	Not Detected
Vinyl Chloride	1.2	Not Detected	3.0	Not Detected

Container Type: 1 Liter Summa Canister

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Client Sample ID: SG-VW15-02

Lab ID#: 2107284-09A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3072617**	**Date of Collection:**	**7/14/21 11:34:00 AM**
Dil. Factor:	**2.36**	**Date of Analysis:**	**7/26/21 07:09 PM**

Surrogates	%Recovery	Method Limits
Toluene-d8	94	70-130
1,2-Dichloroethane-d4	96	70-130
4-Bromofluorobenzene	97	70-130

US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msd3.i/26JUL21.b/3072617.d
Lab Smp Id: 2107284-09A
Inj Date : 26-JUL-2021 19:09
Operator : LD Inst ID: msd3.i
Smp Info : 200mL 1L1812
Misc Info : 9 Hg->9.6 psi
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msd3.i/26JUL21.b/321q0622a.m
Meth Date : 28-Jul-2021 12:16 uexa Quant Type: ISTD
Cal Date : 23-JUN-2021 00:09 Cal File: 3062223.d
Als bottle: 9
Dil Factor: 2.36000
Integrator: HP RTE Compound Sublist: AEC25677.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE		(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 90 Bromochloromethane						CAS #: 74-97-5		
5.285	5.284 (1.000)	130	273053	25.0000			80.00- 120.00	100.00
5.285	5.284 (1.000)	128	213816				48.46- 108.46	78.31
5.285	5.284 (1.000)	49	387328				120.39- 180.39	141.85
* 108 1,4-Difluorobenzene						CAS #: 540-36-3		
6.180	6.166 (1.000)	114	868301	25.0000			80.00- 120.00	100.00
6.166	6.166 (1.000)	88	125335				0.00- 45.52	14.43
* 153 Chlorobenzene-d5						CAS #: 3114-55-4		
8.612	8.612 (1.000)	117	767029	25.0000			80.00- 120.00	100.00
8.612	8.612 (1.000)	82	407716				25.46- 85.46	53.16
$ 104 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
5.816	5.816 (1.101)	65	362758	24.1414	24.141		80.00- 120.00	100.00
5.816	5.816 (1.101)	67	176718				21.66- 81.66	48.72
$ 134 Toluene-d8						CAS #: 2037-26-5		
7.387	7.387 (1.195)	98	843834	23.5946	23.595		80.00- 120.00	100.00
7.387	7.387 (1.195)	70	97186				0.00- 41.47	11.52

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 134 Toluene-d8 (continued)							
7.387	7.387 (1.195)	100	562790			36.47- 96.47	66.69
$ 170 4-Bromofluorobenzene					CAS #: 460-00-4		
9.601	9.601 (1.115)	174	490170	24.1603	24.160	80.00- 120.00	100.00
9.601	9.601 (1.115)	95	554901			93.06- 153.06	113.21
9.601	9.601 (1.115)	176	451532			62.87- 122.87	92.12
47 Acetone					CAS #: 67-64-1		
3.228	3.214 (0.611)	58	27180	5.93642	14.010	80.00- 120.00	100.00
3.228	3.214 (0.611)	43	94905			299.66- 359.66	349.17
89 Tetrahydrofuran					CAS #: 109-99-9		
5.285	5.270 (1.000)	42	14965	1.37441	3.244	80.00- 120.00	100.00
5.285	5.270 (1.000)	71	6547			2.92- 62.92	43.75
5.285	5.270 (1.000)	72	6266			3.54- 63.54	41.87

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd3.i
Lab File ID: 3072617.d
Lab Smp Id: 2107284-09A
Analysis Type: VOA
Quant Type: ISTD
Operator: LD
Method File: /chem/msd3.i/26JUL21.b/321q0622a.m
Misc Info: 9 Hg->9.6 psi

Calibration Date: 26-JUL-2021
Calibration Time: 10:10
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	263983	158390	369576	273053	3.44
108 1,4-Difluorobenze	833448	500069	1166827	868301	4.18
153 Chlorobenzene-d5	741338	444803	1037873	767029	3.47

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.28	4.95	5.61	5.28	0.00
108 1,4-Difluorobenze	6.17	5.84	6.50	6.18	0.23
153 Chlorobenzene-d5	8.61	8.28	8.94	8.61	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 28-Jul-2021 12:42

US32TAR1

RECOVERY REPORT

Client Name: Client SDG: 26JUL21
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 2107284-09A
Level: LOW Operator: LD
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT20_new.spk Quant Type: ISTD
Sublist File: AEC25677.sub
Method File: /chem/msd3.i/26JUL21.b/321q0622a.m
Misc Info: 9 Hg->9.6 psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 104 1,2-Dichloroethan	25.000	24.141	96.57	70-130
$ 134 Toluene-d8	25.000	23.595	94.38	70-130
$ 170 4-Bromofluorobenz	25.000	24.160	96.64	70-130

Data File: /chem/msd3.i/26JUL21.b/3072617.d

Date : 26-JUL-2021 19:09

Client ID:

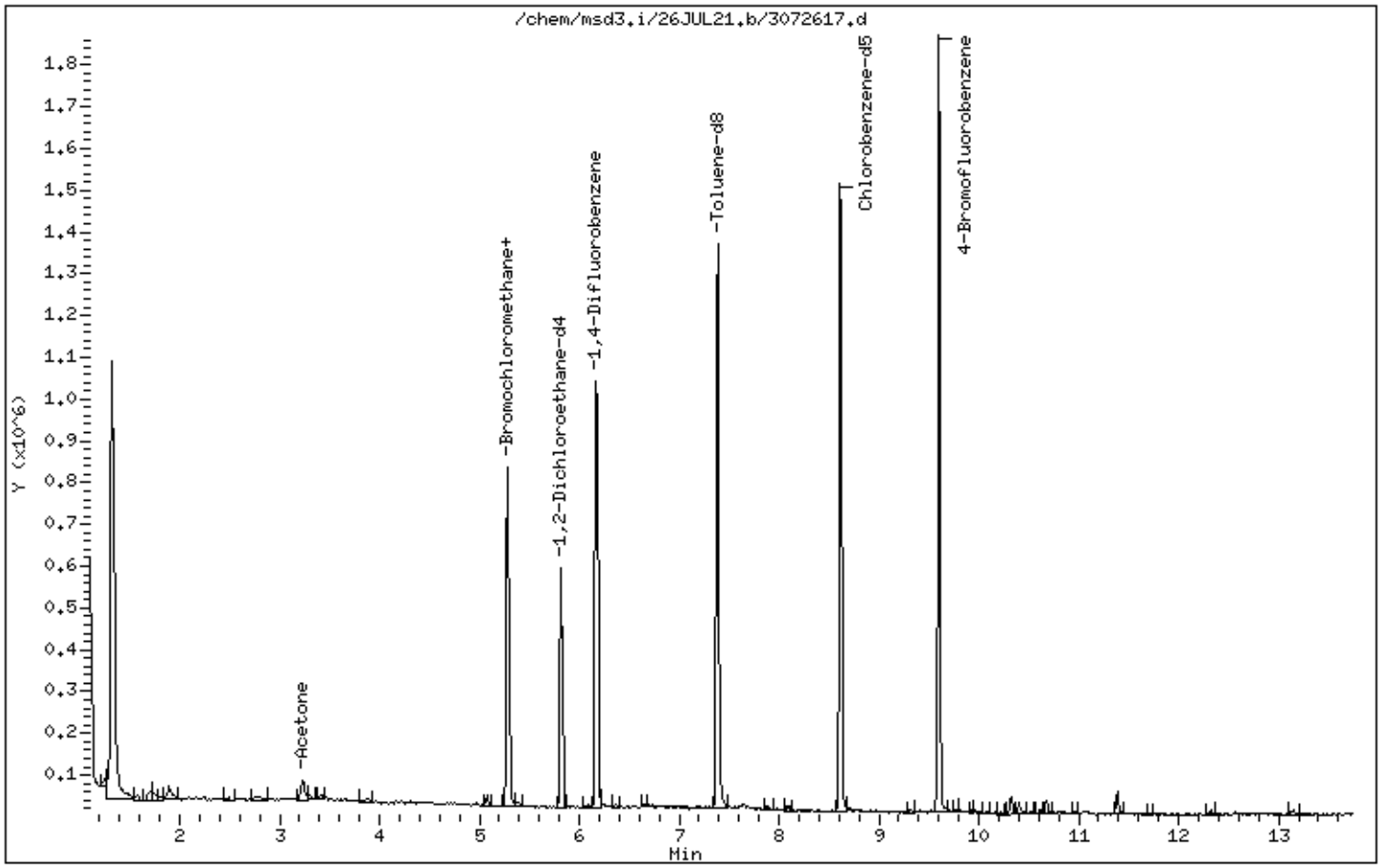
Instrument: msd3.i

Sample Info: 200mL 1L1812

Operator: LD

Column phase: RTX-624

Column diameter: 0.25



Data File: /chem/msd3.i/26JUL21.b/3072617.d

Date : 26-JUL-2021 19:09

Client ID:

Instrument: msd3.i

Sample Info: 200mL 1L1812

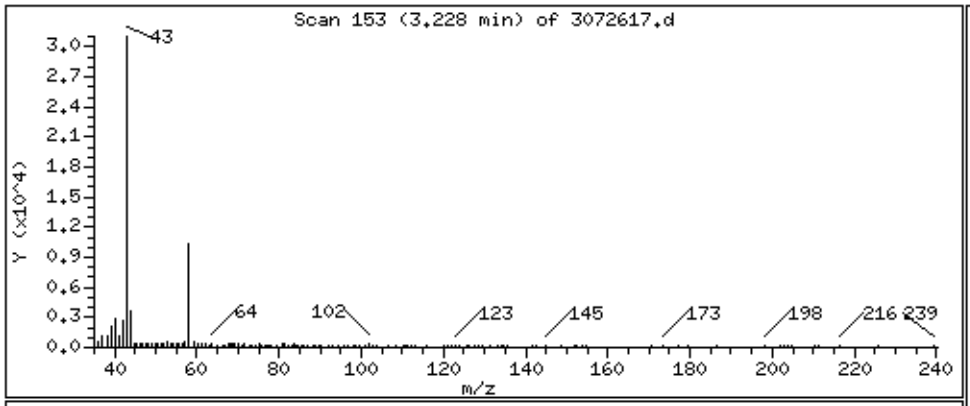
Operator: LD

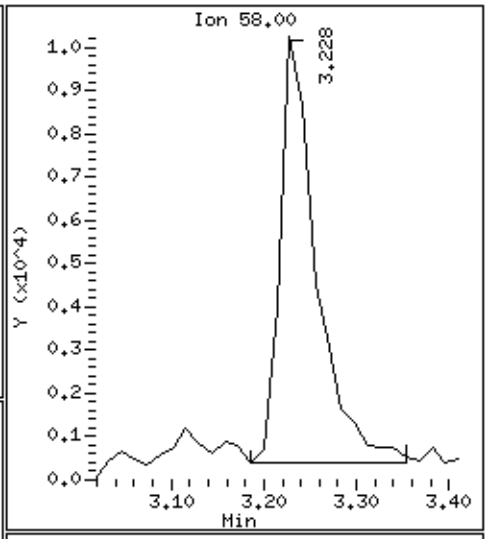
Column phase: RTX-624

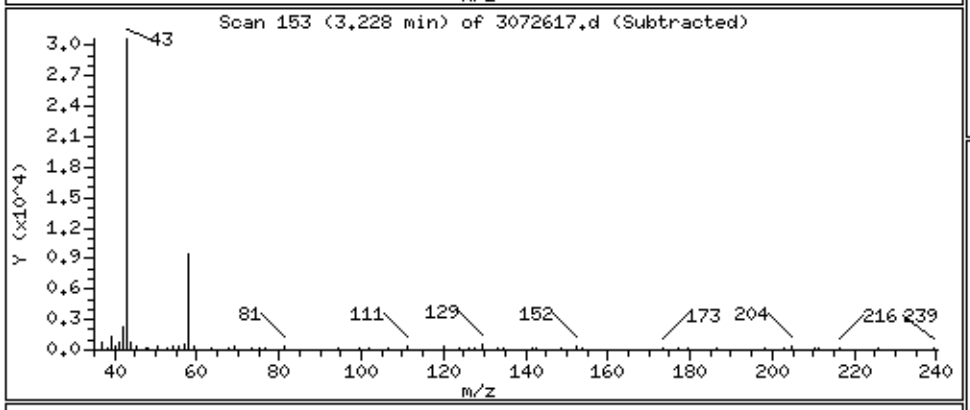
Column diameter: 0.25

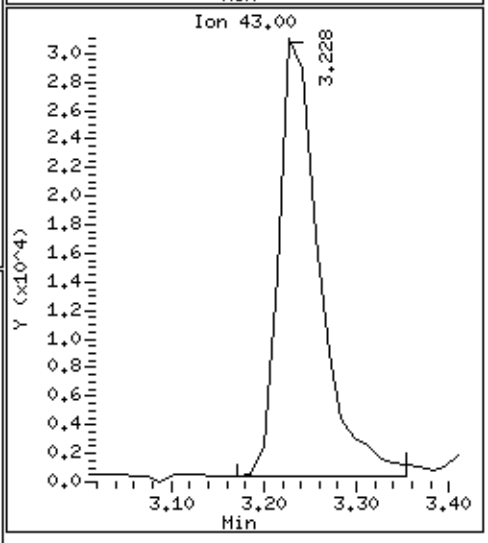
47 Acetone

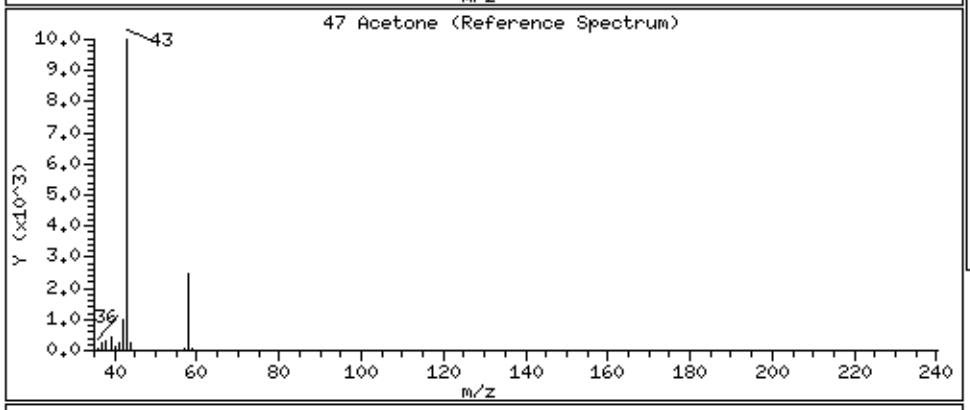
Concentration: 14.010 PPBV

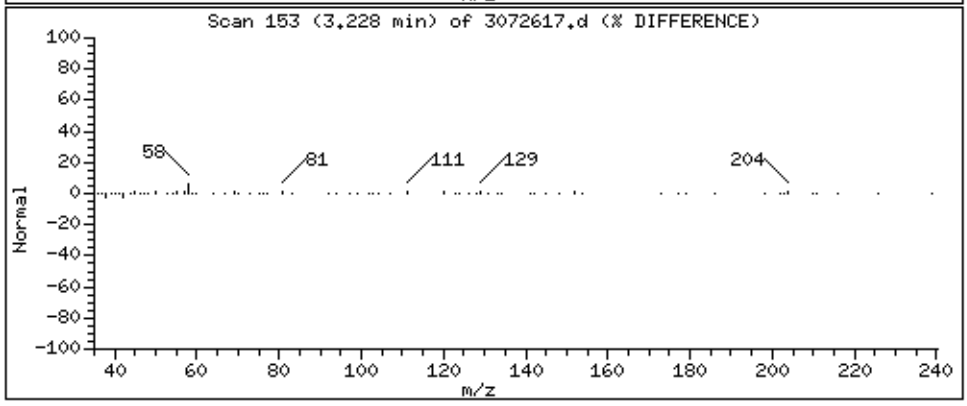












Data File: /chem/msd3.i/26JUL21.b/3072617.d

Date : 26-JUL-2021 19:09

Client ID:

Instrument: msd3.i

Sample Info: 200mL 1L1812

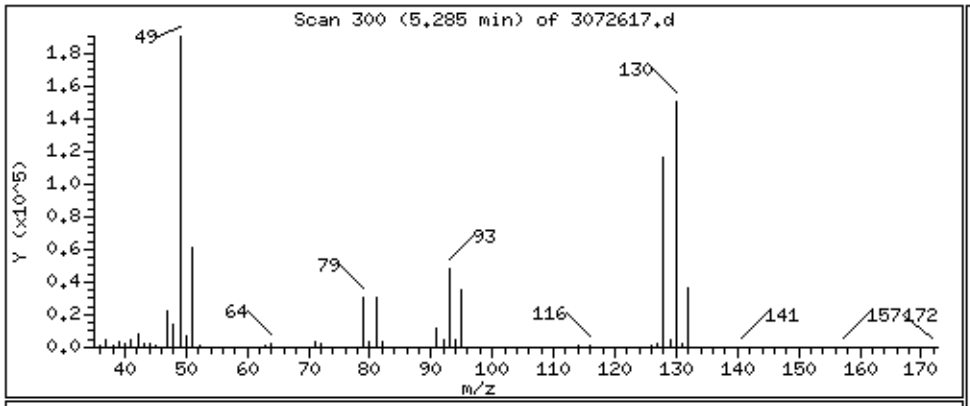
Operator: LD

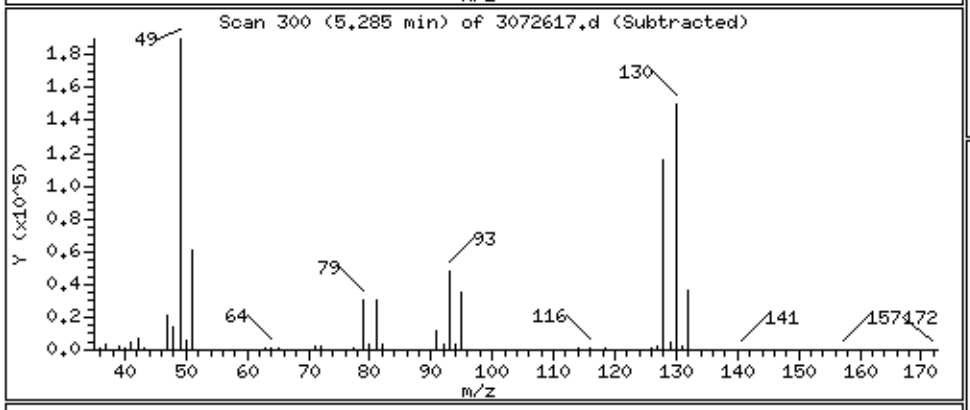
Column phase: RTX-624

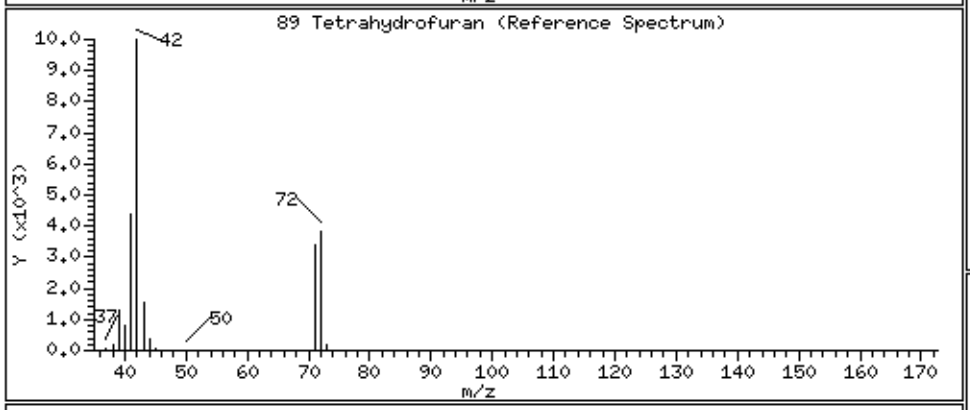
Column diameter: 0.25

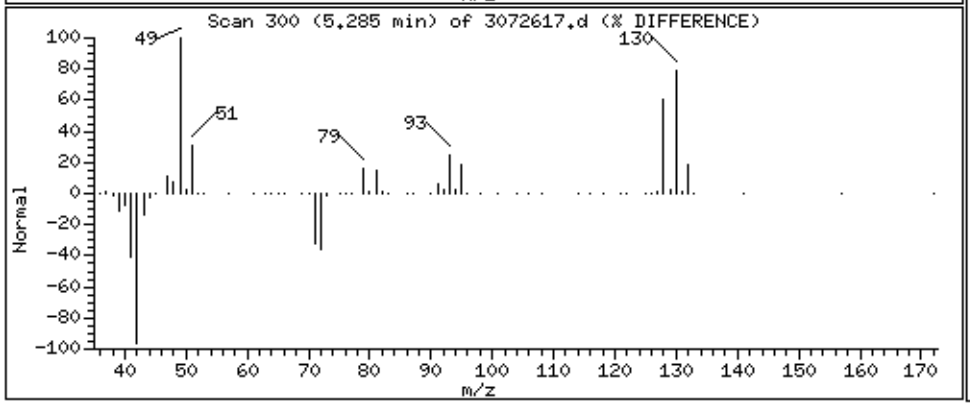
89 Tetrahydrofuran

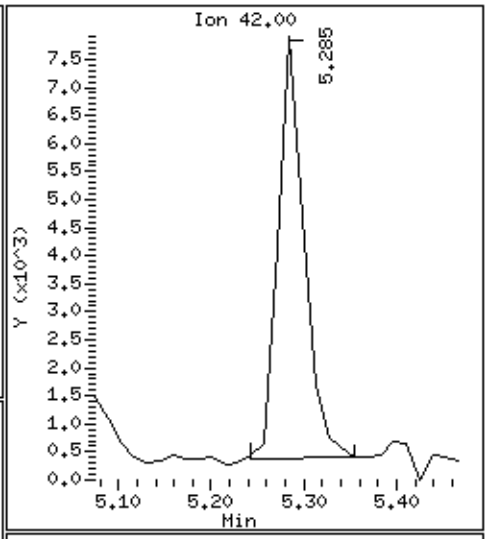
Concentration: 3.244 PPBV

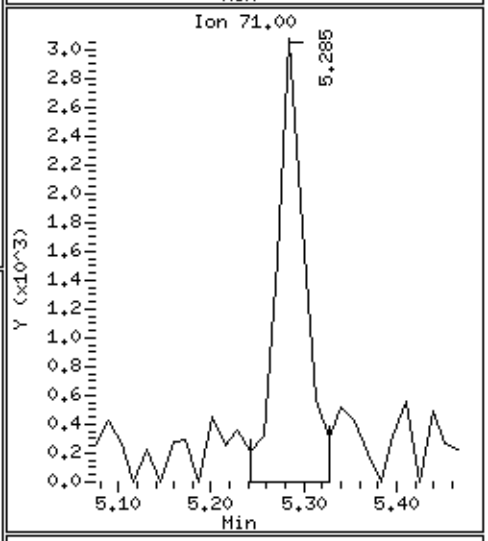


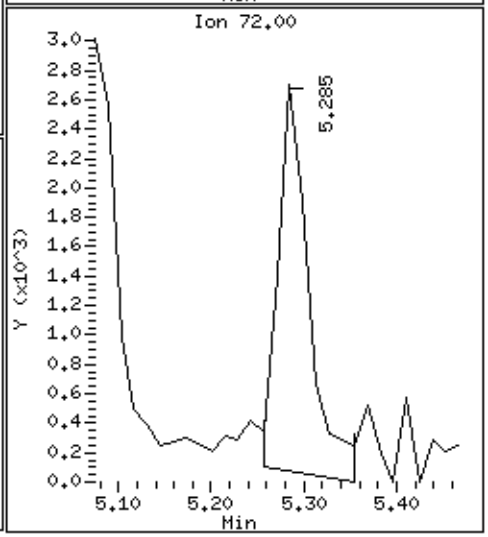












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Client Sample ID: SG-VW15-03

Lab ID#: 2107284-10A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3072618**	**Date of Collection:**	**7/14/21 11:34:00 AM**
Dil. Factor:	**2.31**	**Date of Analysis:**	**7/26/21 10:27 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1,2-Tetrachloroethane	4.6	Not Detected	32	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.3	Not Detected
1,1,2,2-Tetrachloroethane	1.2	Not Detected	7.9	Not Detected
1,1,2-Trichloroethane	1.2	Not Detected	6.3	Not Detected
1,1-Dichloroethane	1.2	Not Detected	4.7	Not Detected
1,1-Dichloroethene	1.2	Not Detected	4.6	Not Detected
1,1-Difluoroethane	4.6	Not Detected	12	Not Detected
1,2,3-Trichloropropane	4.6	Not Detected	28	Not Detected
1,2,4-Trichlorobenzene	4.6	Not Detected	34	Not Detected
1,2,4-Trimethylbenzene	1.2	10	5.7	50
1,2-Dibromo-3-chloropropane	4.6	Not Detected	45	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	8.9	Not Detected
1,2-Dichlorobenzene	1.2	Not Detected	6.9	Not Detected
1,2-Dichloroethane	1.2	Not Detected	4.7	Not Detected
1,2-Dichloropropane	1.2	Not Detected	5.3	Not Detected
1,3,5-Trimethylbenzene	1.2	2.0	5.7	9.7
1,3-Butadiene	1.2	Not Detected	2.6	Not Detected
1,3-Dichlorobenzene	1.2	Not Detected	6.9	Not Detected
1,4-Dichlorobenzene	1.2	Not Detected	6.9	Not Detected
1,4-Dioxane	4.6	Not Detected	17	Not Detected
2,2,4-Trimethylpentane	1.2	Not Detected	5.4	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.6	Not Detected	14	Not Detected
2-Hexanone	4.6	Not Detected	19	Not Detected
2-Propanol	4.6	4.7	11	12
3-Chloropropene	4.6	Not Detected	14	Not Detected
4-Ethyltoluene	1.2	3.4	5.7	17
4-Methyl-2-pentanone	1.2	Not Detected	4.7	Not Detected
Acetone	12	18	27	42
Acrolein	4.6	Not Detected	10	Not Detected
Acrylonitrile	4.6	Not Detected	10	Not Detected
alpha-Chlorotoluene	1.2	Not Detected	6.0	Not Detected
Benzene	1.2	Not Detected	3.7	Not Detected
Bromodichloromethane	1.2	Not Detected	7.7	Not Detected
Bromoform	1.2	Not Detected	12	Not Detected
Bromomethane	12	Not Detected	45	Not Detected
Carbon Disulfide	4.6	15	14	46
Carbon Tetrachloride	1.2	Not Detected	7.3	Not Detected
Chlorobenzene	1.2	Not Detected	5.3	Not Detected
Chloroethane	4.6	Not Detected	12	Not Detected
Chloroform	1.2	Not Detected	5.6	Not Detected
Chloromethane	12	Not Detected	24	Not Detected
cis-1,2-Dichloroethene	1.2	Not Detected	4.6	Not Detected

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Client Sample ID: SG-VW15-03

Lab ID#: 2107284-10A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3072618**	**Date of Collection:**	**7/14/21 11:34:00 AM**
Dil. Factor:	**2.31**	**Date of Analysis:**	**7/26/21 10:27 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,3-Dichloropropene	1.2	Not Detected	5.2	Not Detected
Cumene	1.2	Not Detected	5.7	Not Detected
Cyclohexane	1.2	Not Detected	4.0	Not Detected
Dibromochloromethane	1.2	Not Detected	9.8	Not Detected
Dibromomethane	4.6	Not Detected	33	Not Detected
Ethanol	12	Not Detected	22	Not Detected
Ethyl Acetate	4.6	Not Detected	17	Not Detected
Ethyl Benzene	1.2	5.0	5.0	22
Ethyl-tert-butyl ether	4.6	Not Detected	19	Not Detected
Freon 11	1.2	Not Detected	6.5	Not Detected
Freon 12	1.2	Not Detected	5.7	Not Detected
Freon 113	1.2	Not Detected	8.8	Not Detected
Freon 114	1.2	Not Detected	8.1	Not Detected
Freon 134a	4.6	Not Detected	19	Not Detected
Heptane	1.2	Not Detected	4.7	Not Detected
Hexachlorobutadiene	4.6	Not Detected	49	Not Detected
Hexachloroethane	4.6	Not Detected	45	Not Detected
Hexane	1.2	Not Detected	4.1	Not Detected
Iodomethane	12	Not Detected	67	Not Detected
Isopropyl ether	4.6	Not Detected	19	Not Detected
m,p-Xylene	1.2	3.2	5.0	14
Methyl tert-butyl ether	4.6	Not Detected	17	Not Detected
Methylene Chloride	12	Not Detected	40	Not Detected
Naphthalene	2.3	Not Detected	12	Not Detected
o-Xylene	1.2	Not Detected	5.0	Not Detected
Propylbenzene	1.2	2.2	5.7	11
Propylene	4.6	Not Detected	8.0	Not Detected
Styrene	1.2	Not Detected	4.9	Not Detected
tert-Amyl methyl ether	4.6	Not Detected	19	Not Detected
tert-Butyl alcohol	4.6	Not Detected	14	Not Detected
Tetrachloroethene	1.2	Not Detected	7.8	Not Detected
Tetrahydrofuran	1.2	Not Detected	3.4	Not Detected
Toluene	1.2	Not Detected	4.4	Not Detected
TPH ref. to Gasoline (MW=100)	120	Not Detected	470	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.6	Not Detected
trans-1,3-Dichloropropene	1.2	Not Detected	5.2	Not Detected
Trichloroethene	1.2	Not Detected	6.2	Not Detected
Vinyl Acetate	4.6	Not Detected	16	Not Detected
Vinyl Bromide	4.6	Not Detected	20	Not Detected
Vinyl Chloride	1.2	Not Detected	3.0	Not Detected

Container Type: 1 Liter Summa Canister

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Client Sample ID: SG-VW15-03

Lab ID#: 2107284-10A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3072618**	**Date of Collection:**	**7/14/21 11:34:00 AM**
Dil. Factor:	**2.31**	**Date of Analysis:**	**7/26/21 10:27 PM**

Surrogates	%Recovery	Method Limits
Toluene-d8	97	70-130
1,2-Dichloroethane-d4	99	70-130
4-Bromofluorobenzene	94	70-130

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EPA TO-15/MODIFIED TO14A

Data file : /chem/msd3.i/26JUL21.b/3072618.d
Lab Smp Id: 2107284-10A
Inj Date : 26-JUL-2021 22:27
Operator : DF Inst ID: msd3.i
Smp Info : 200mL N2667
Misc Info : 8.2 Hg->10 psi
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msd3.i/26JUL21.b/321q0622a.m
Meth Date : 28-Jul-2021 12:16 uexa Quant Type: ISTD
Cal Date : 23-JUN-2021 00:09 Cal File: 3062223.d
Als bottle: 1
Dil Factor: 2.31000
Integrator: HP RTE Compound Sublist: AEC25677.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE		(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 90 Bromochloromethane						CAS #: 74-97-5		
5.284	5.284 (1.000)	130	239694	25.0000			80.00- 120.00	100.00
5.284	5.284 (1.000)	128	190491				48.46- 108.46	79.47
5.284	5.284 (1.000)	49	346972				120.39- 180.39	144.76
* 108 1,4-Difluorobenzene						CAS #: 540-36-3		
6.180	6.166 (1.000)	114	811222	25.0000			80.00- 120.00	100.00
6.180	6.166 (1.000)	88	117158				0.00- 45.52	14.44
* 153 Chlorobenzene-d5						CAS #: 3114-55-4		
8.619	8.612 (1.000)	117	717699	25.0000			80.00- 120.00	100.00
8.612	8.612 (1.000)	82	376312				25.46- 85.46	52.43
$ 104 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
5.816	5.816 (1.101)	65	326856	24.7795	24.779		80.00- 120.00	100.00
5.816	5.816 (1.101)	67	157454				21.66- 81.66	48.17
$ 134 Toluene-d8						CAS #: 2037-26-5		
7.387	7.387 (1.195)	98	809581	24.2296	24.230		80.00- 120.00	100.00
7.387	7.387 (1.195)	70	91781				0.00- 41.47	11.34

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 134 Toluene-d8 (continued)							
7.387	7.387 (1.195)	100	532424			36.47- 96.47	65.77
$ 170 4-Bromofluorobenzene					CAS #: 460-00-4		
9.601	9.601 (1.114)	174	444317	23.4055	23.405	80.00- 120.00	100.00
9.601	9.601 (1.114)	95	503832			93.06- 153.06	113.39
9.601	9.601 (1.114)	176	413156			62.87- 122.87	92.99
47 Acetone					CAS #: 67-64-1		
3.228	3.214 (0.611)	58	30456	7.57771	17.504	80.00- 120.00	100.00
3.228	3.214 (0.611)	43	106140			299.66- 359.66	348.50
48 Carbon Disulfide					CAS #: 75-15-0		
3.311	3.298 (0.627)	76	115312	6.37133	14.718	80.00- 120.00	100.00
52 2-Propanol					CAS #: 67-63-0		
3.423	3.395 (0.648)	45	29642	2.05073	4.737	80.00- 120.00	100.00
3.423	3.395 (0.648)	43	7586			0.00- 48.61	25.59
155 Ethyl Benzene					CAS #: 100-41-4		
8.684	8.684 (1.007)	106	21282	2.16974	5.012	80.00- 120.00	100.00
8.684	8.684 (1.007)	91	63212			282.48- 342.48	297.02
158 m,p-Xylene					CAS #: 108-38-3		
8.784	8.784 (1.019)	106	16711	1.36946	3.163	80.00- 120.00	100.00
8.784	8.784 (1.019)	91	34005			171.36- 231.36	203.49
178 Propylbenzene					CAS #: 103-65-1		
9.758	9.751 (1.132)	91	40910	0.95729	2.211	80.00- 120.00	100.00
9.758	9.751 (1.132)	120	10208			0.00- 53.77	24.95
9.758	9.751 (1.132)	105	1584			0.00- 33.81	3.87
183 4-Ethyltoluene					CAS #: 622-96-8		
9.830	9.851 (1.140)	120	16280	1.46967	3.395	80.00- 120.00	100.00
9.830	9.851 (1.140)	105	52167			296.79- 356.79	320.43
185 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
9.901	9.901 (1.149)	120	13261	0.85232	1.969	80.00- 120.00	100.00
9.901	9.901 (1.149)	105	27230			176.40- 236.40	205.33
190 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
10.224	10.224 (1.186)	105	136102	4.43622	10.248	80.00- 120.00	100.00
10.224	10.224 (1.186)	120	64084			16.58- 76.58	47.09

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd3.i
Lab File ID: 3072618.d
Lab Smp Id: 2107284-10A
Analysis Type: VOA
Quant Type: ISTD
Operator: DF
Method File: /chem/msd3.i/26JUL21.b/321q0622a.m
Misc Info: 8.2 Hg->10 psi

Calibration Date: 26-JUL-2021
Calibration Time: 10:10
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	263983	158390	369576	239694	-9.20
108 1,4-Difluorobenze	833448	500069	1166827	811222	-2.67
153 Chlorobenzene-d5	741338	444803	1037873	717699	-3.19

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.28	4.95	5.61	5.28	-0.00
108 1,4-Difluorobenze	6.17	5.84	6.50	6.18	0.23
153 Chlorobenzene-d5	8.61	8.28	8.94	8.62	0.08

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 28-Jul-2021 12:43

US32TAR1

RECOVERY REPORT

Client Name: Client SDG: 26JUL21
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 2107284-10A
Level: LOW Operator: DF
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT20_new.spk Quant Type: ISTD
Sublist File: AEC25677.sub
Method File: /chem/msd3.i/26JUL21.b/321q0622a.m
Misc Info: 8.2 Hg->10 psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 104 1,2-Dichloroethan	25.000	24.779	99.12	70-130
$ 134 Toluene-d8	25.000	24.230	96.92	70-130
$ 170 4-Bromofluorobenz	25.000	23.405	93.62	70-130

Data File: /chem/msd3.i/26JUL21.b/3072618.d

Date : 26-JUL-2021 22:27

Client ID:

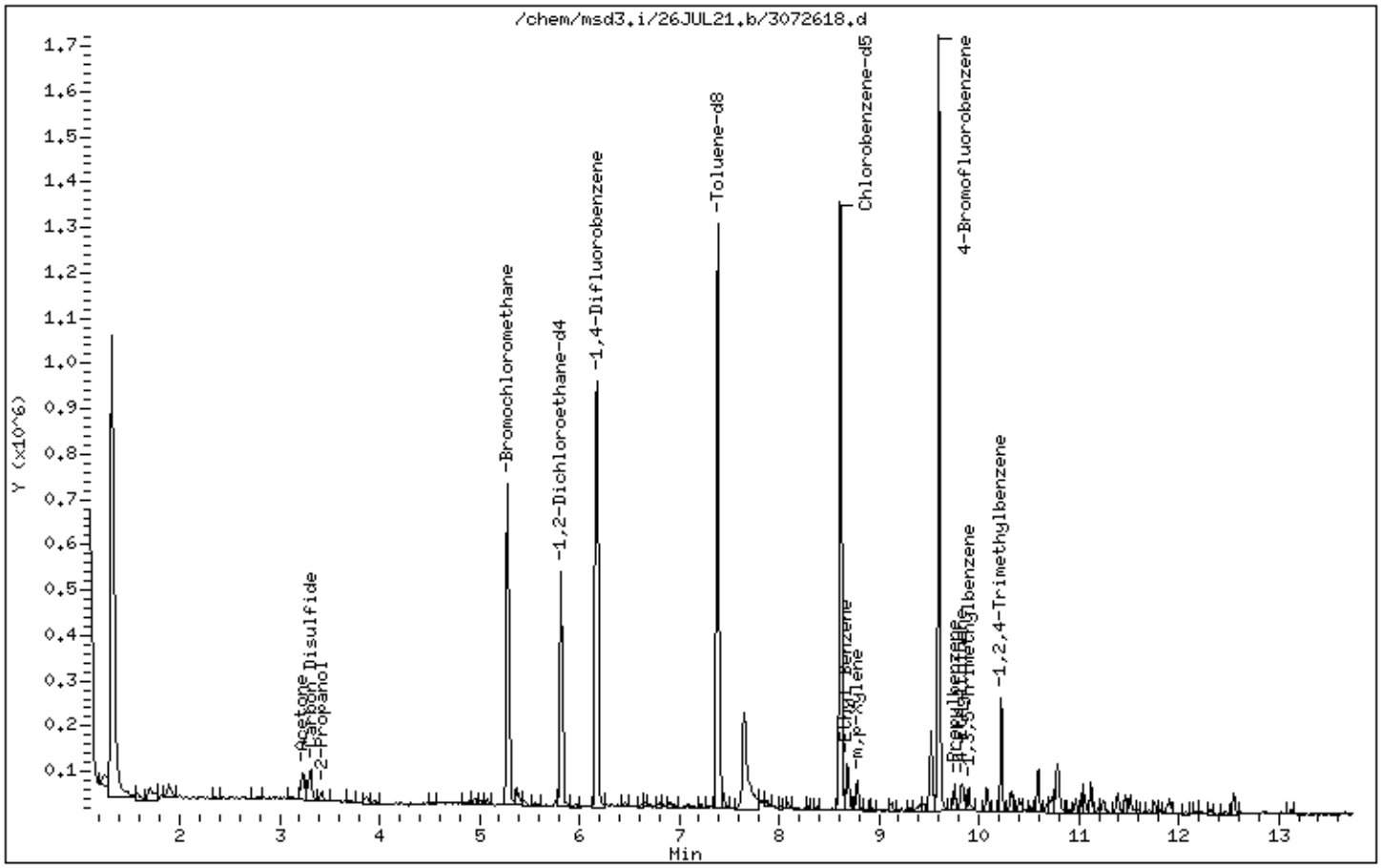
Instrument: msd3.i

Sample Info: 200mL N2667

Operator: DF

Column phase: RTX-624

Column diameter: 0.25



Data File: /chem/msd3.i/26JUL21.b/3072618.d

Date : 26-JUL-2021 22:27

Client ID:

Instrument: msd3.i

Sample Info: 200mL N2667

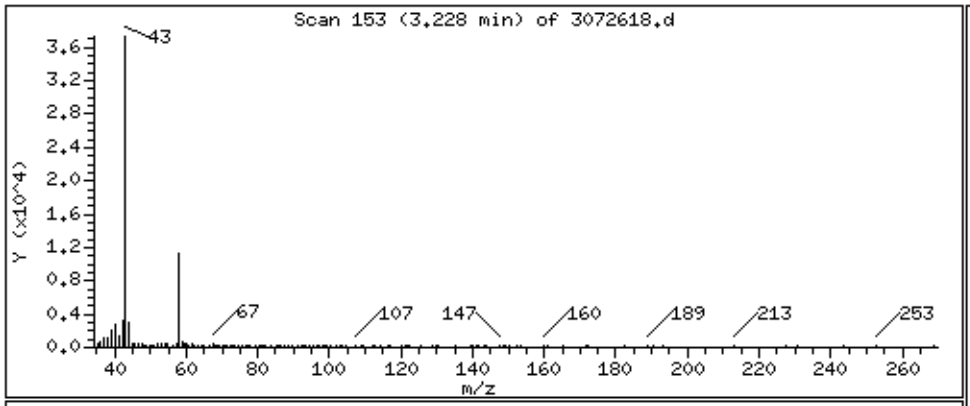
Operator: DF

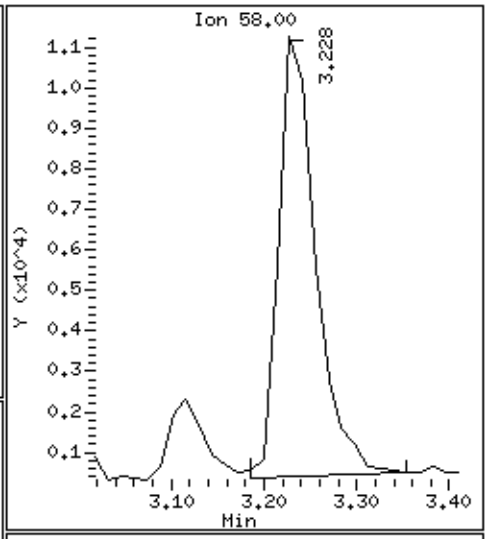
Column phase: RTX-624

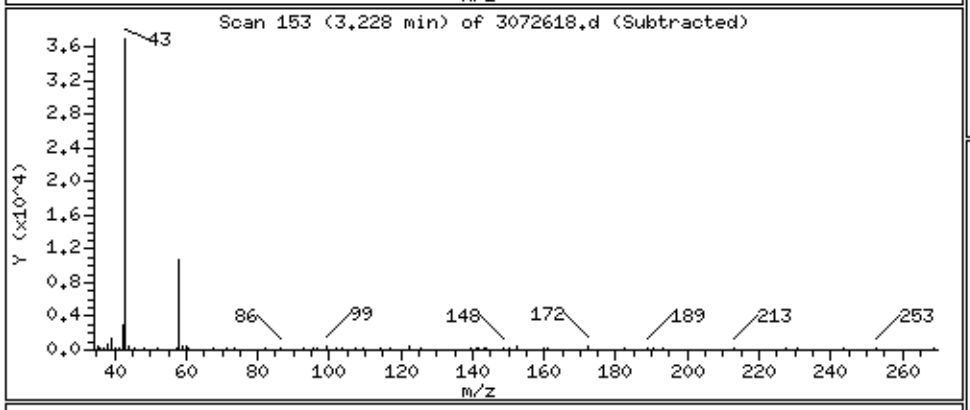
Column diameter: 0.25

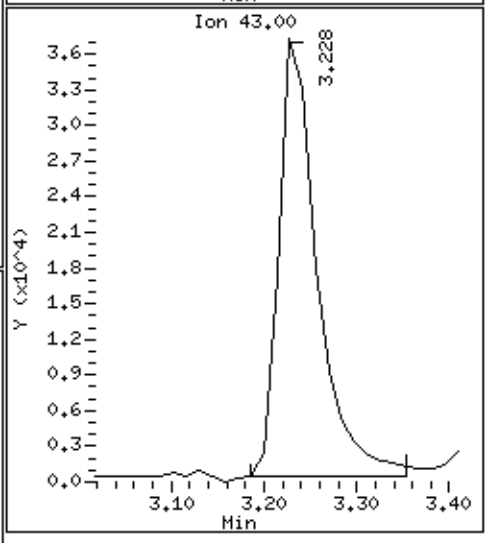
47 Acetone

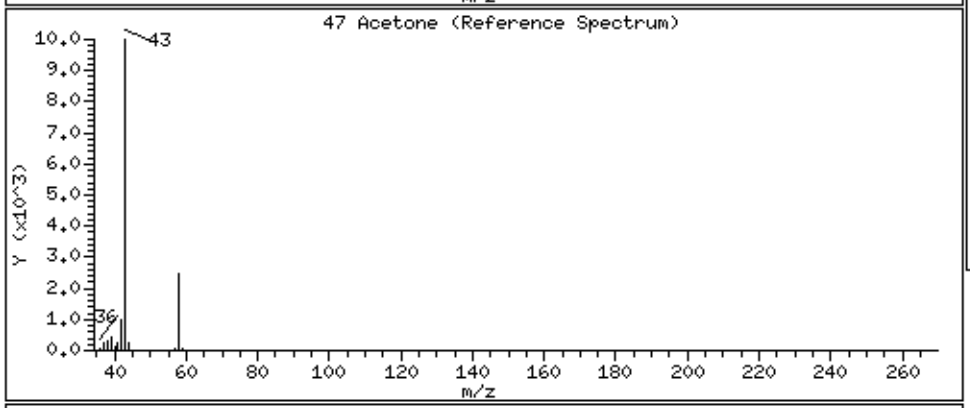
Concentration: 17.504 PPBV

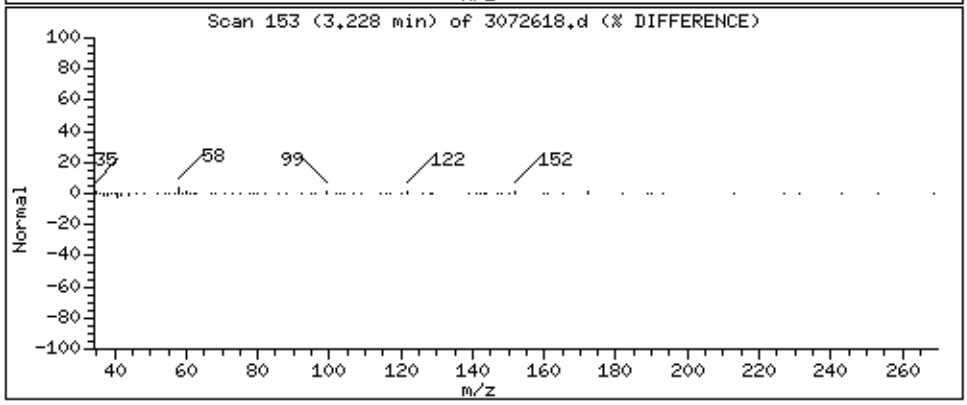












Data File: /chem/msd3.i/26JUL21.b/3072618.d

Date : 26-JUL-2021 22:27

Client ID:

Instrument: msd3.i

Sample Info: 200mL N2667

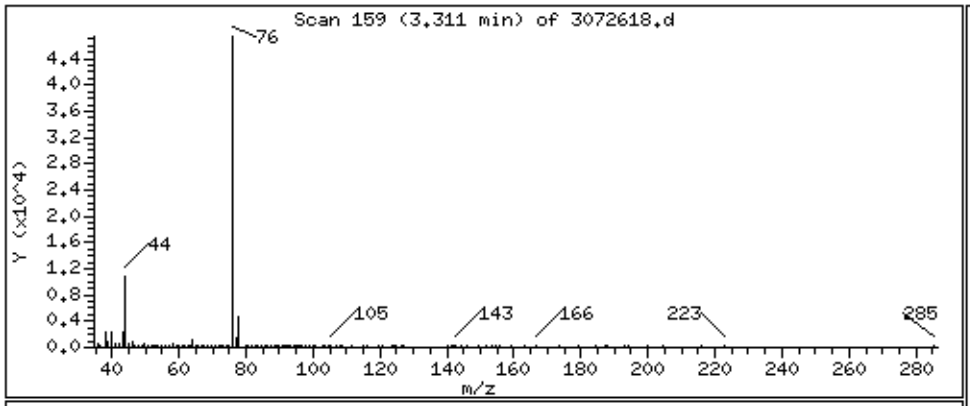
Operator: DF

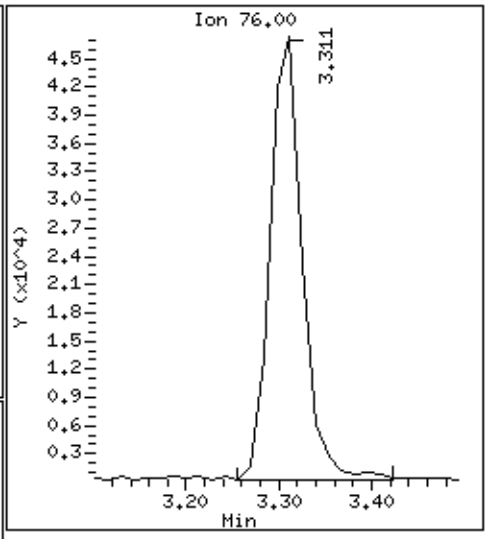
Column phase: RTX-624

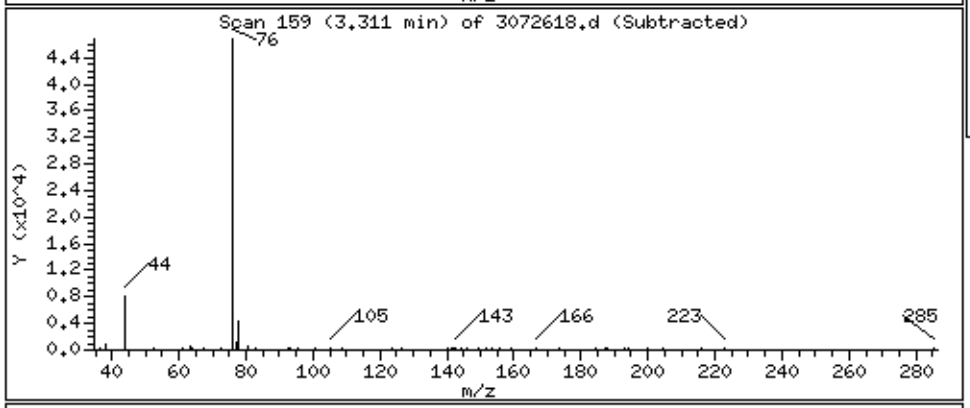
Column diameter: 0.25

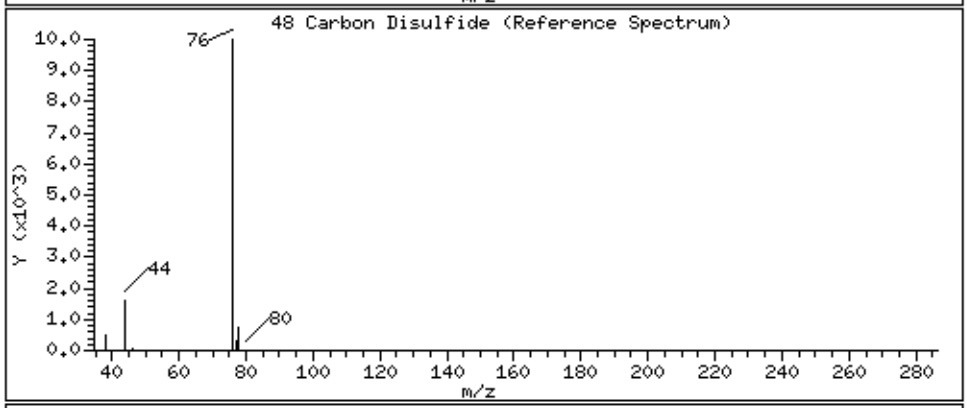
48 Carbon Disulfide

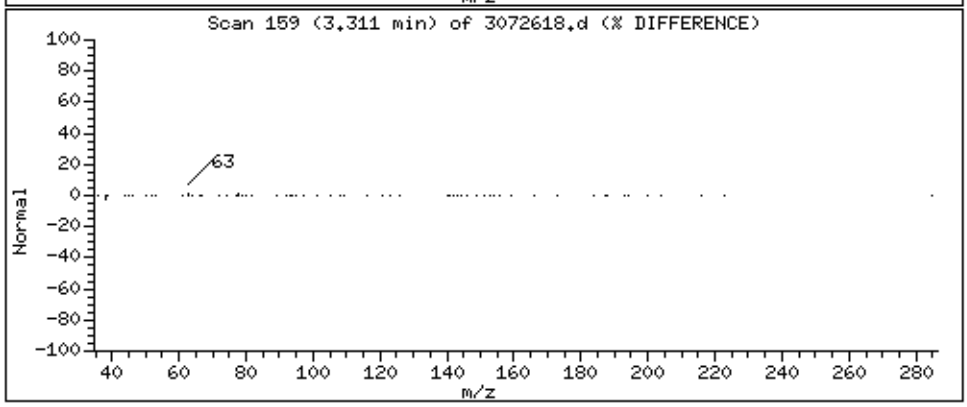
Concentration: 14.718 PPBV











Data File: /chem/msd3.i/26JUL21.b/3072618.d

Date : 26-JUL-2021 22:27

Client ID:

Instrument: msd3.i

Sample Info: 200mL N2667

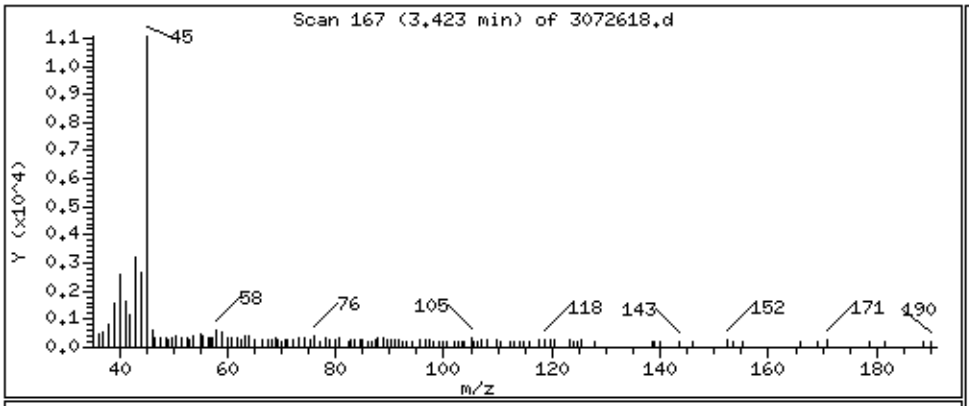
Operator: DF

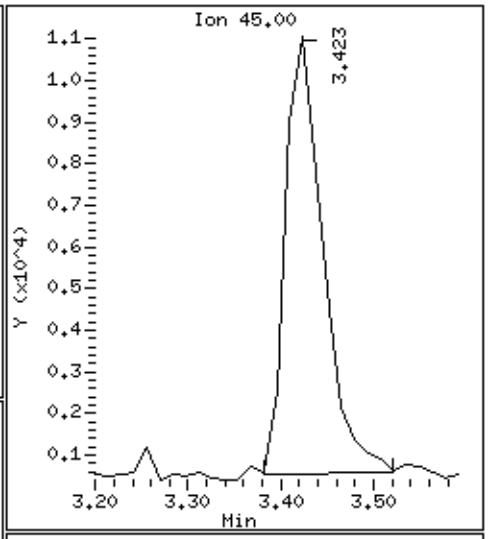
Column phase: RTX-624

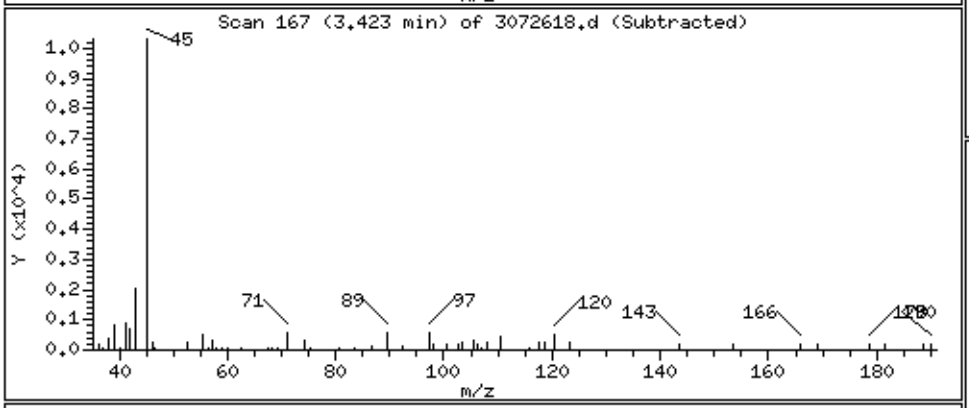
Column diameter: 0.25

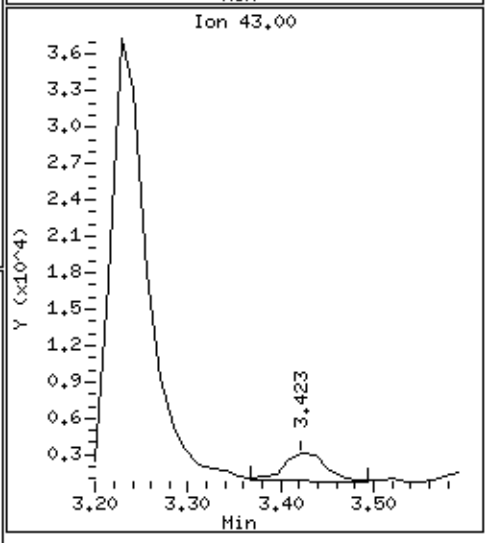
52 2-Propanol

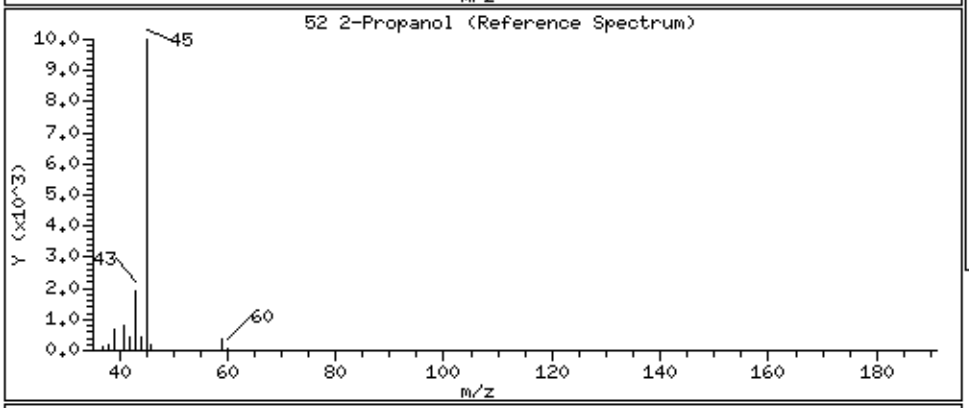
Concentration: 4.737 PPBV

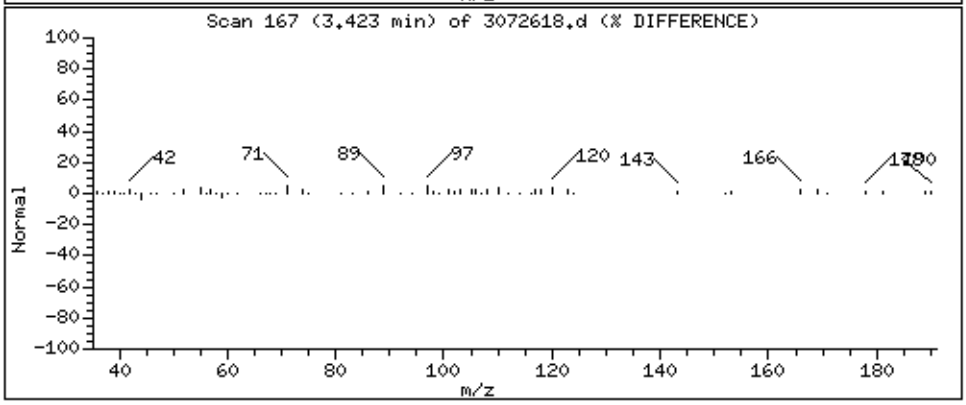












Data File: /chem/msd3.i/26JUL21.b/3072618.d

Date : 26-JUL-2021 22:27

Client ID:

Instrument: msd3.i

Sample Info: 200mL N2667

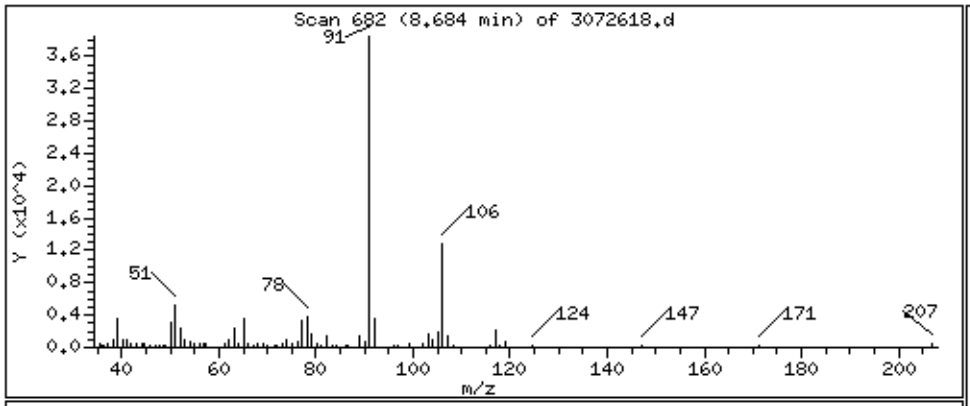
Operator: DF

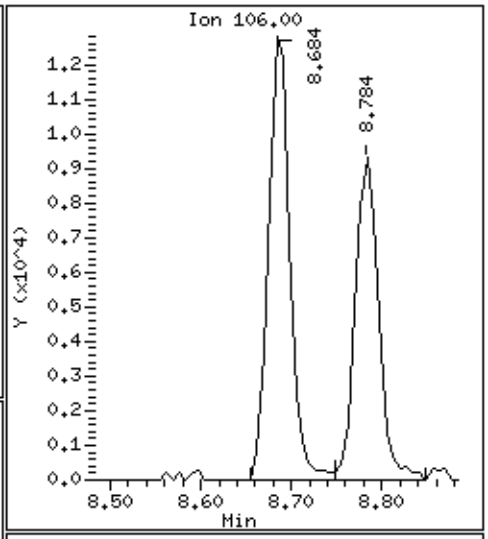
Column phase: RTX-624

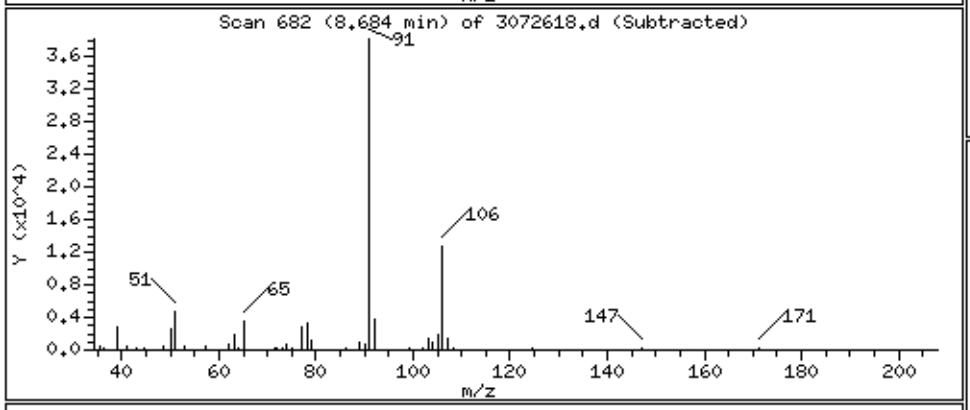
Column diameter: 0.25

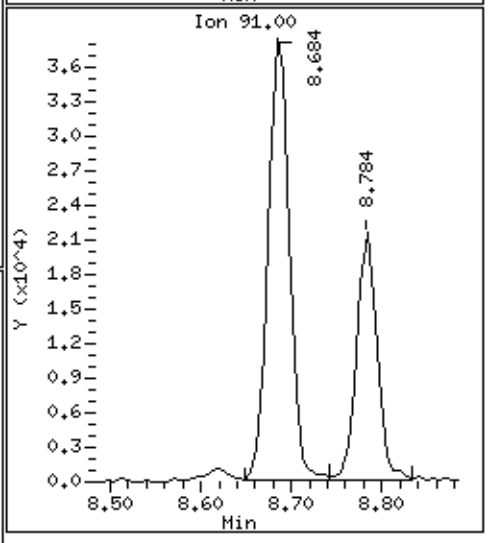
155 Ethyl Benzene

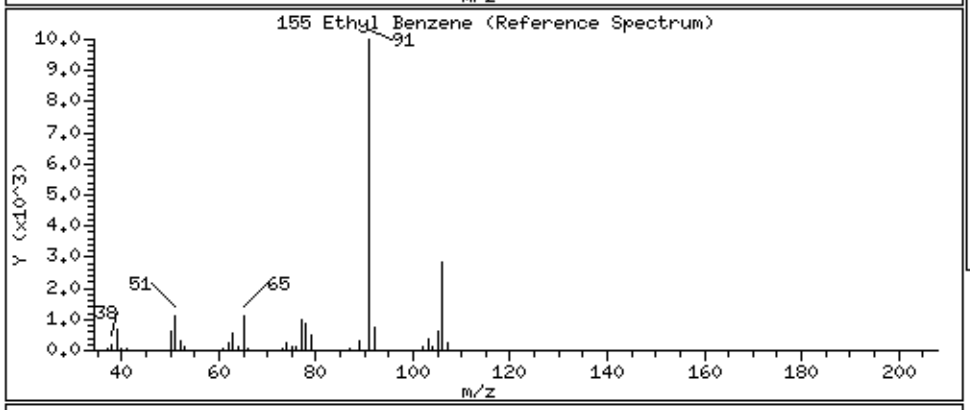
Concentration: 5.012 PPBV

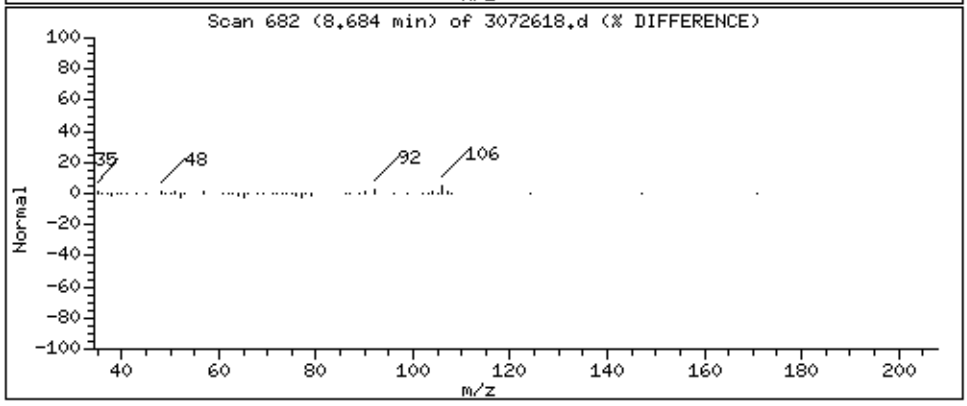












Data File: /chem/msd3.i/26JUL21.b/3072618.d

Date : 26-JUL-2021 22:27

Client ID:

Instrument: msd3.i

Sample Info: 200mL N2667

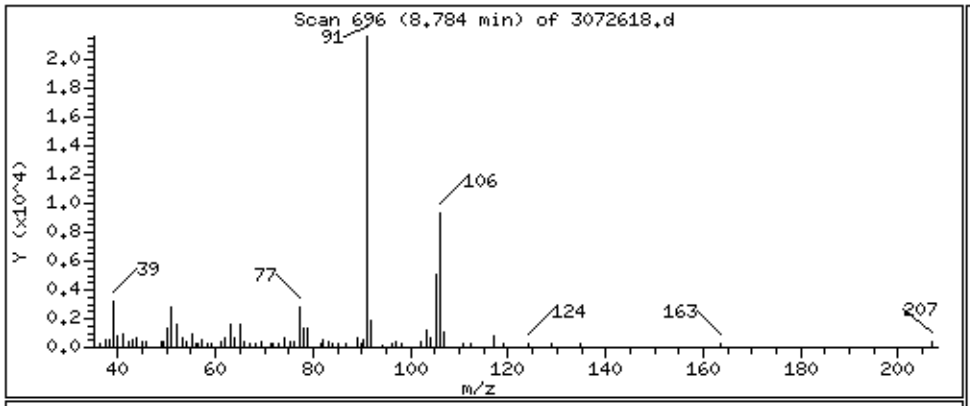
Operator: DF

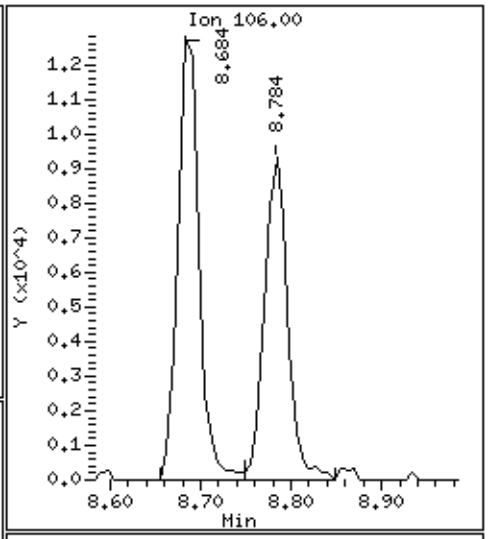
Column phase: RTX-624

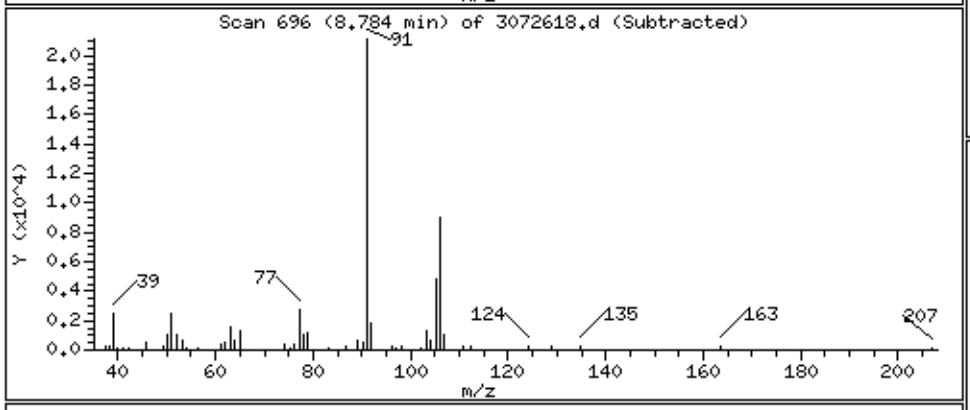
Column diameter: 0.25

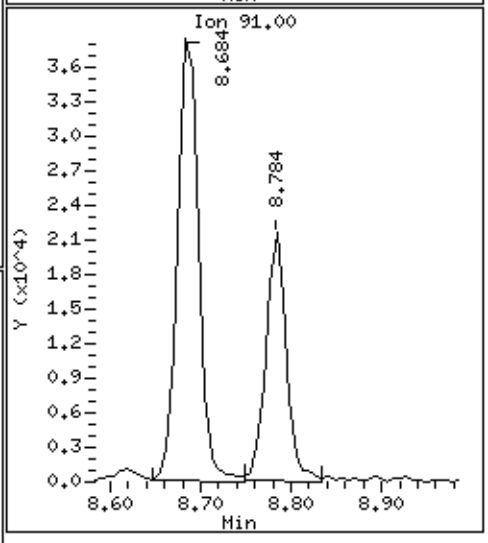
158 m,p-Xylene

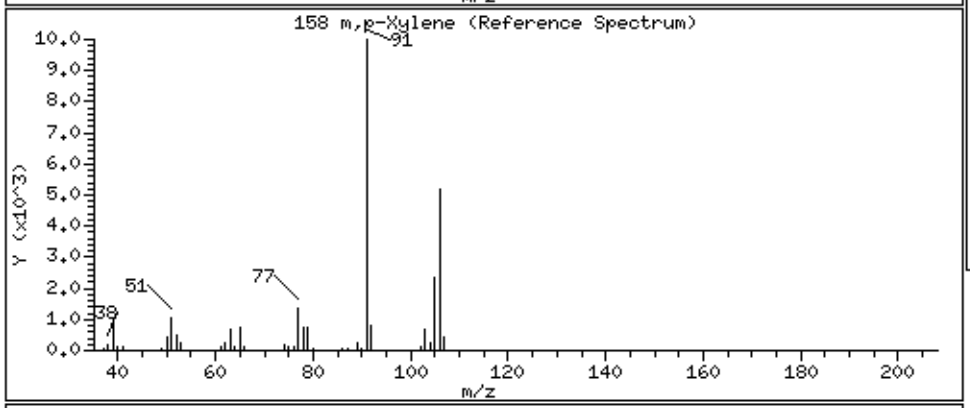
Concentration: 3.163 PPBV

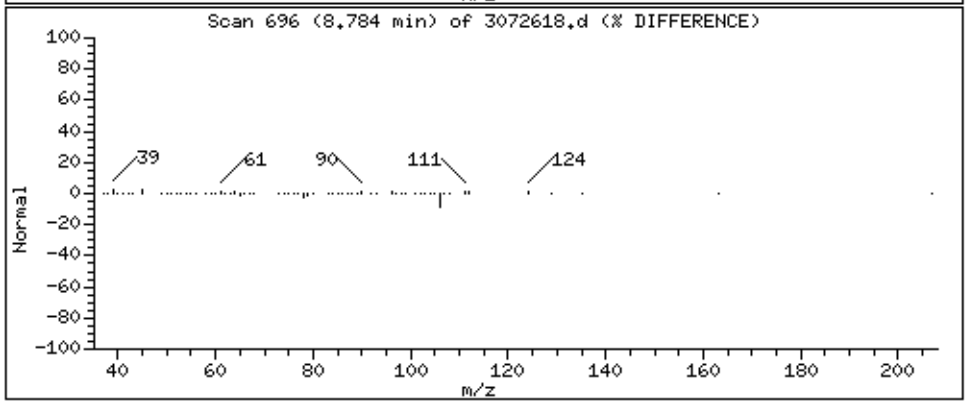












Data File: /chem/msd3.i/26JUL21.b/3072618.d

Date : 26-JUL-2021 22:27

Client ID:

Instrument: msd3.i

Sample Info: 200mL N2667

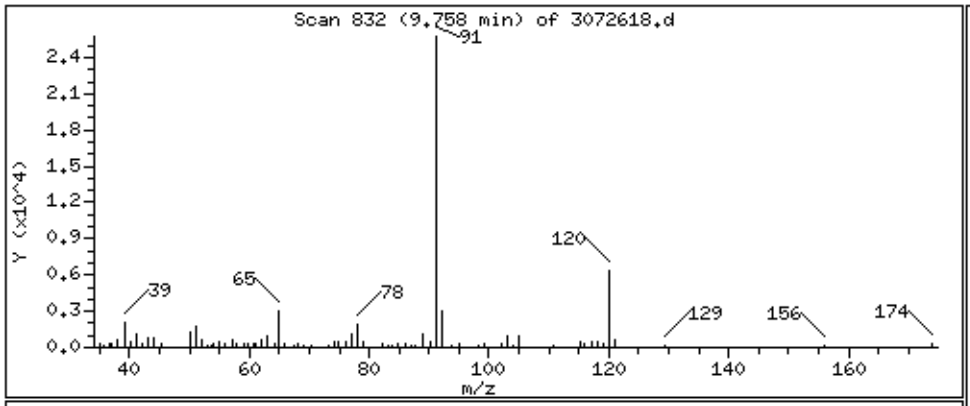
Operator: DF

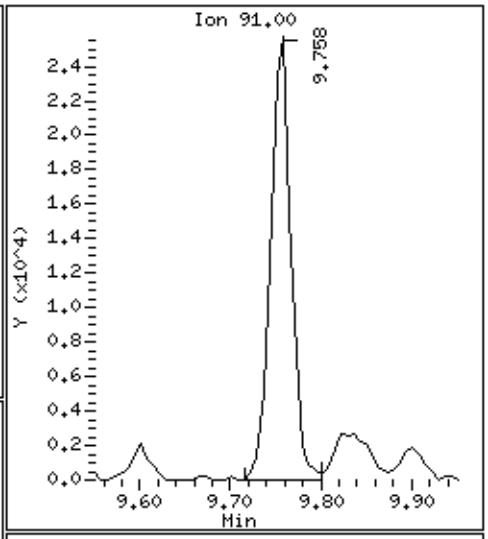
Column phase: RTX-624

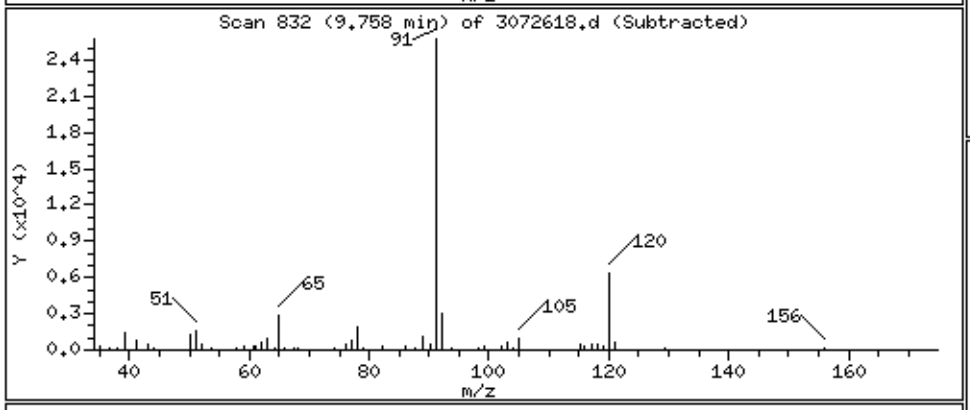
Column diameter: 0.25

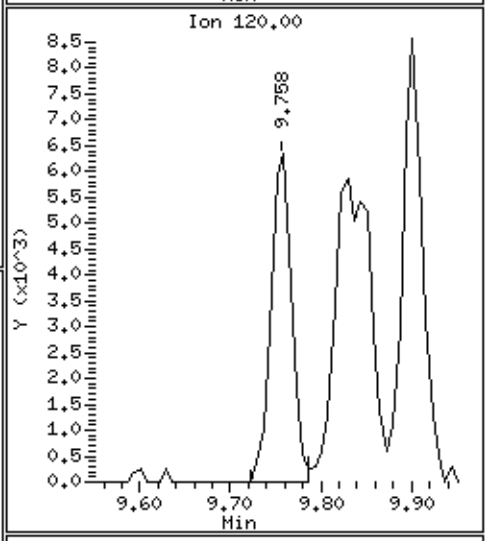
178 Propylbenzene

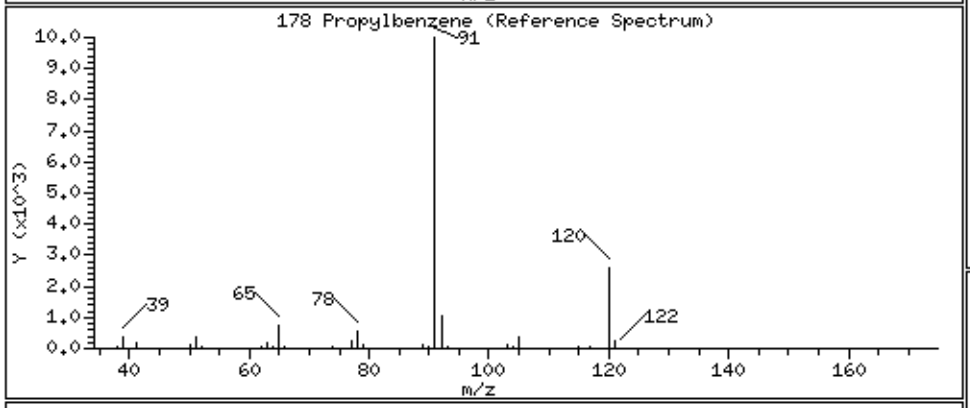
Concentration: 2.211 PPBV

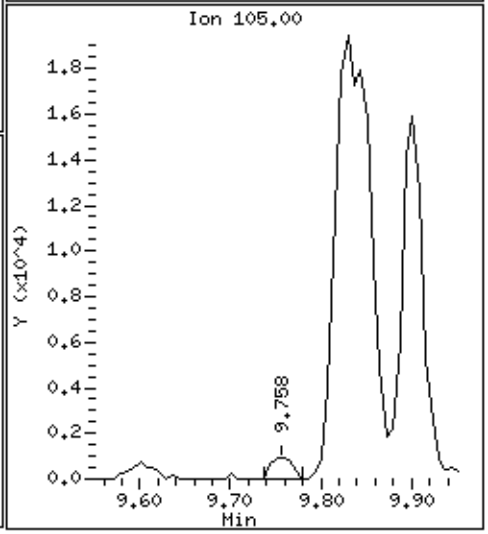


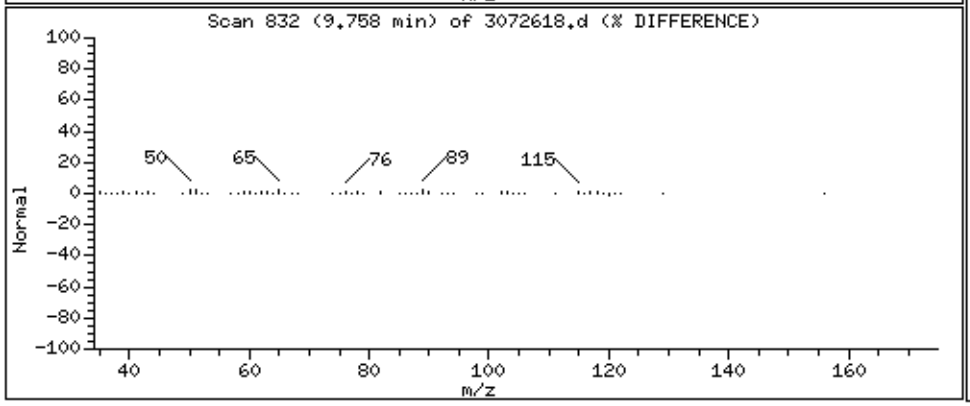












Data File: /chem/msd3.i/26JUL21.b/3072618.d

Date : 26-JUL-2021 22:27

Client ID:

Instrument: msd3.i

Sample Info: 200mL N2667

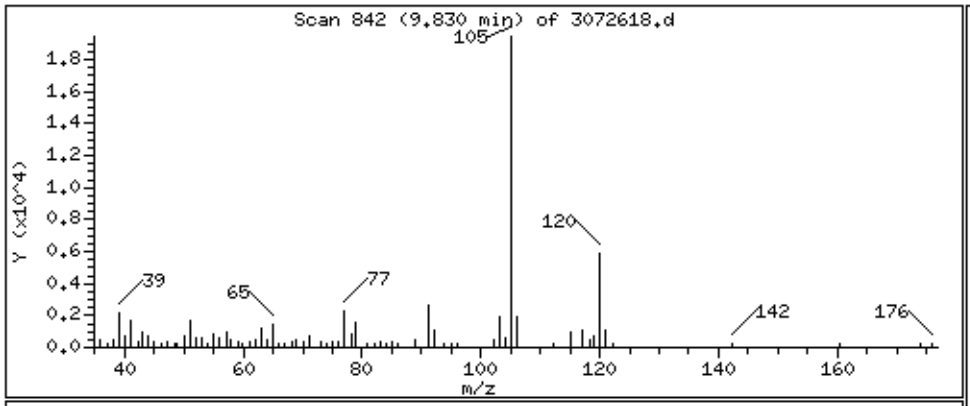
Operator: DF

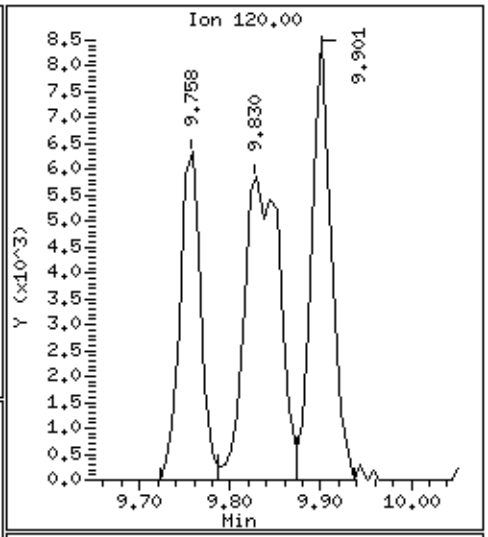
Column phase: RTX-624

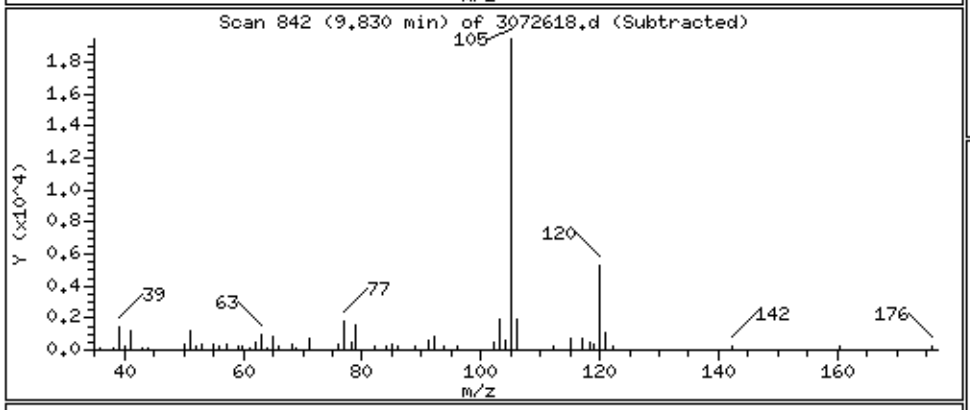
Column diameter: 0.25

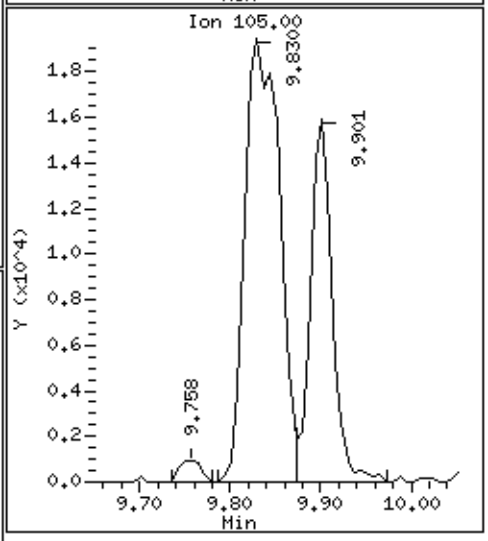
183 4-Ethyltoluene

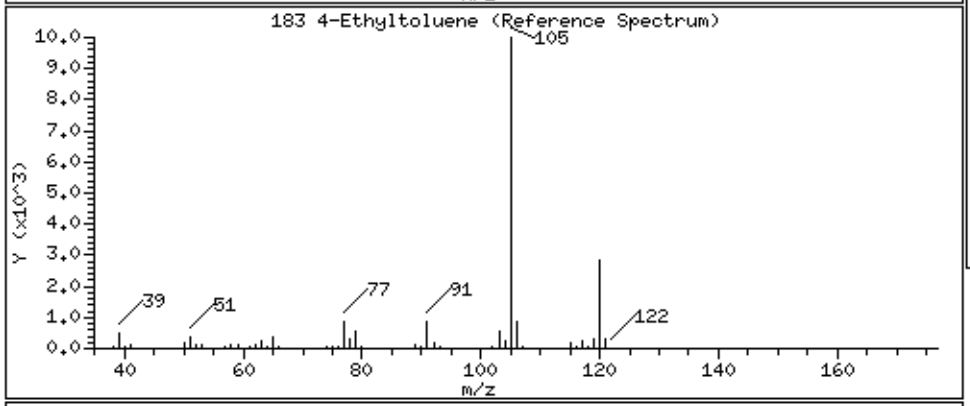
Concentration: 3.395 PPBV

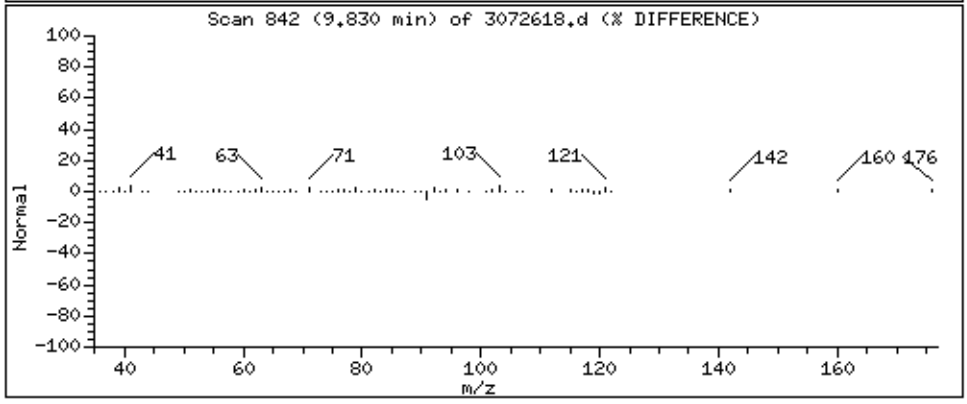












Data File: /chem/msd3.i/26JUL21.b/3072618.d

Date : 26-JUL-2021 22:27

Client ID:

Instrument: msd3.i

Sample Info: 200mL N2667

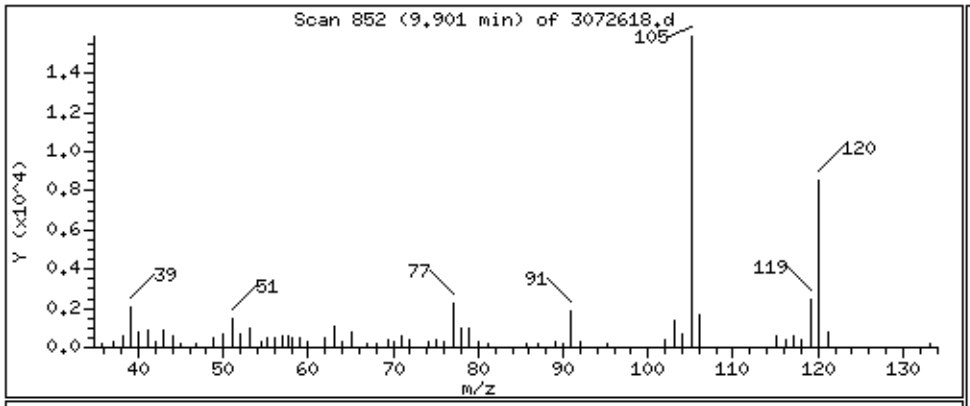
Operator: DF

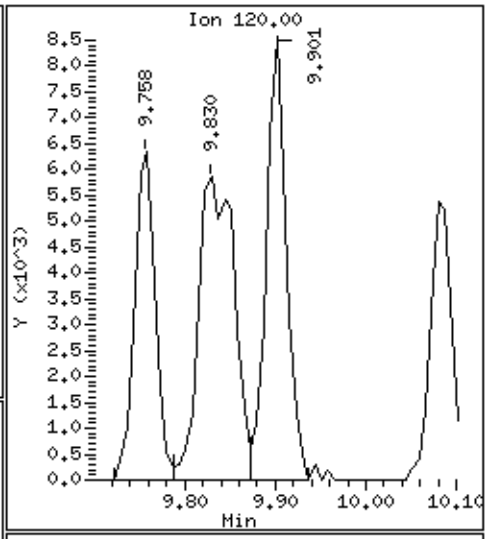
Column phase: RTX-624

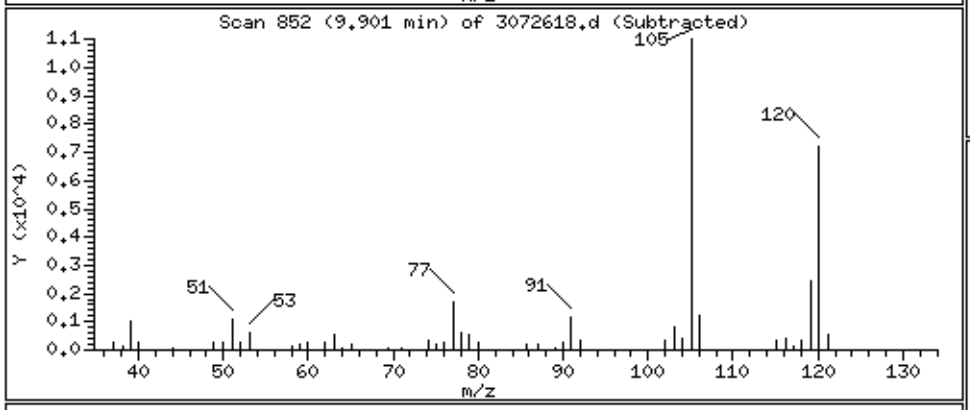
Column diameter: 0.25

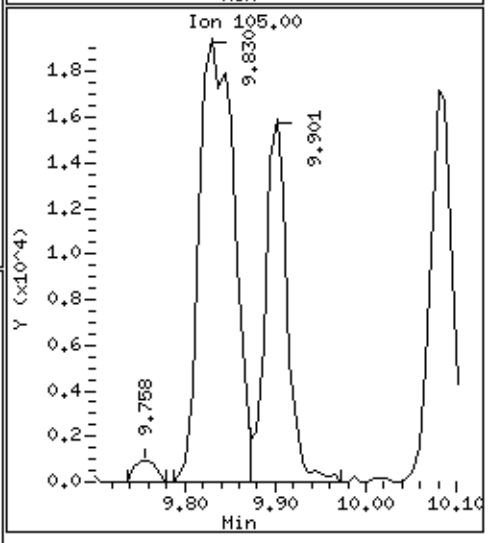
185 1,3,5-Trimethylbenzene

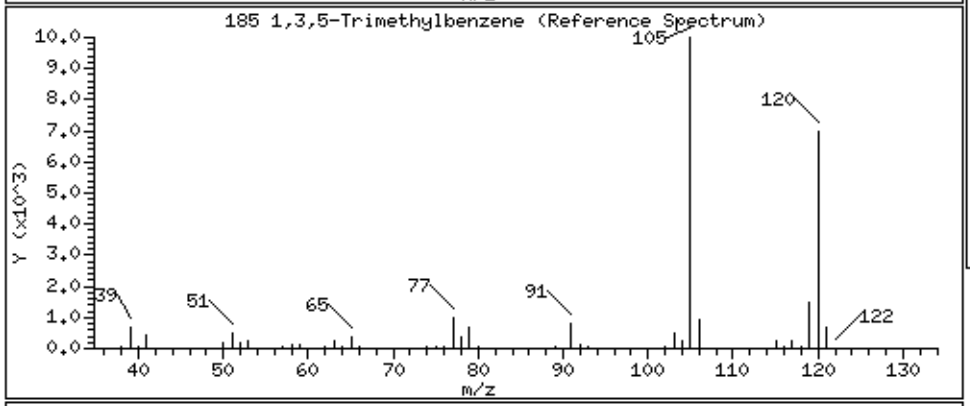
Concentration: 1.969 PPBV

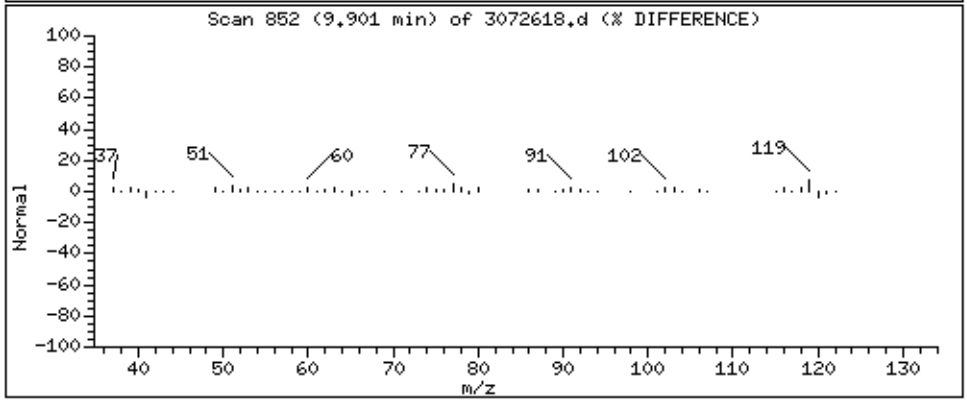












Data File: /chem/msd3.i/26JUL21.b/3072618.d

Date : 26-JUL-2021 22:27

Client ID:

Instrument: msd3.i

Sample Info: 200mL N2667

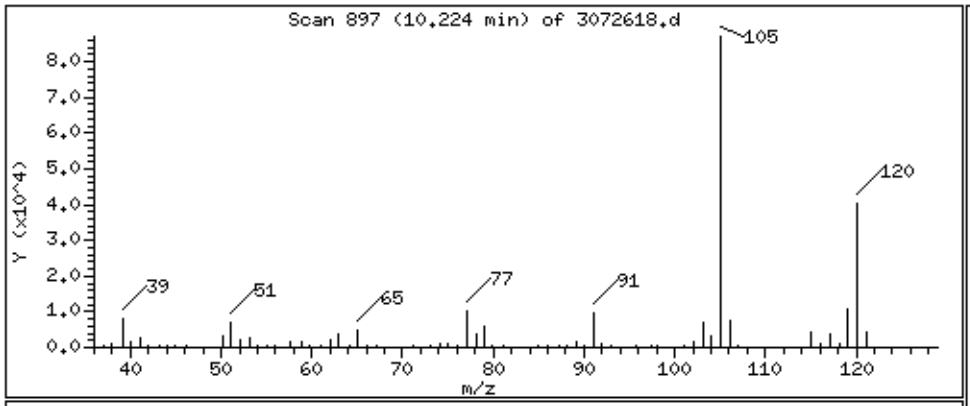
Operator: DF

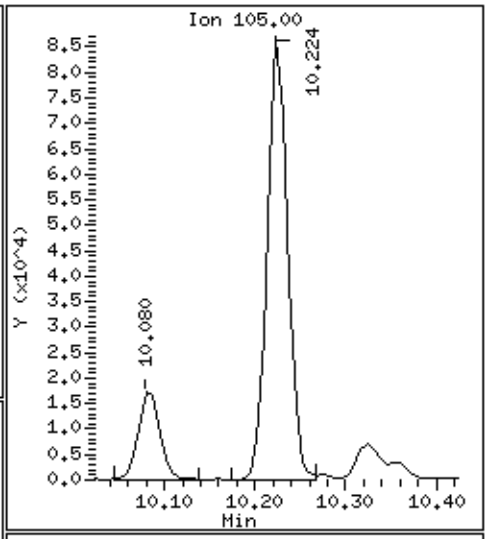
Column phase: RTX-624

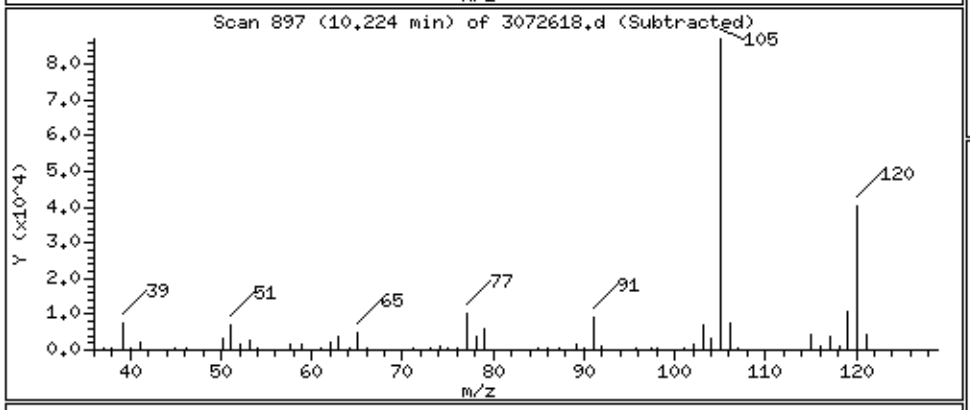
Column diameter: 0.25

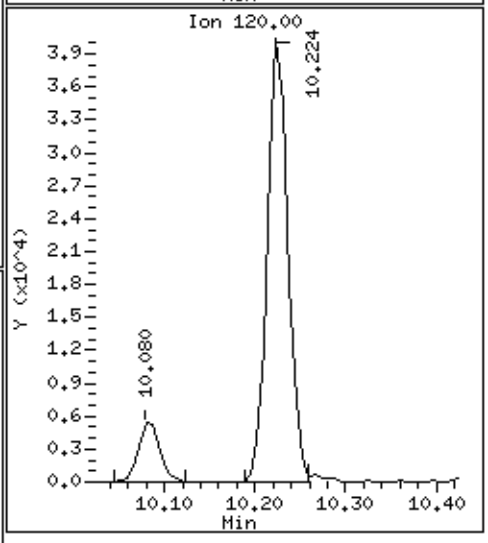
190 1,2,4-Trimethylbenzene

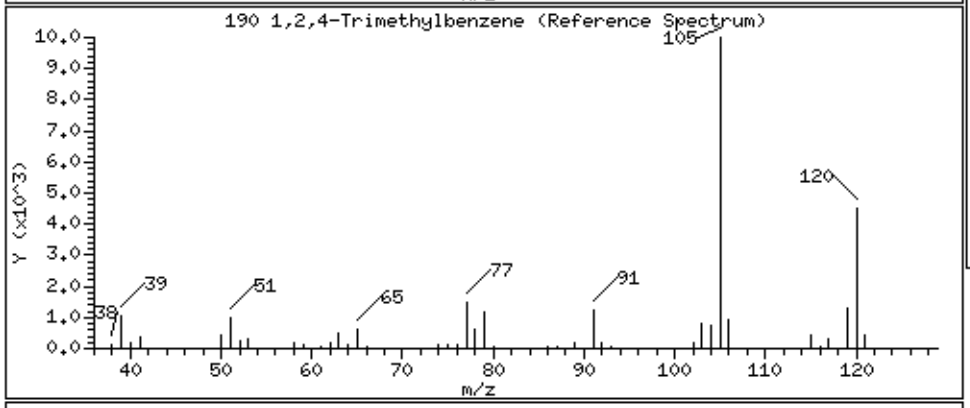
Concentration: 10.248 PPBV

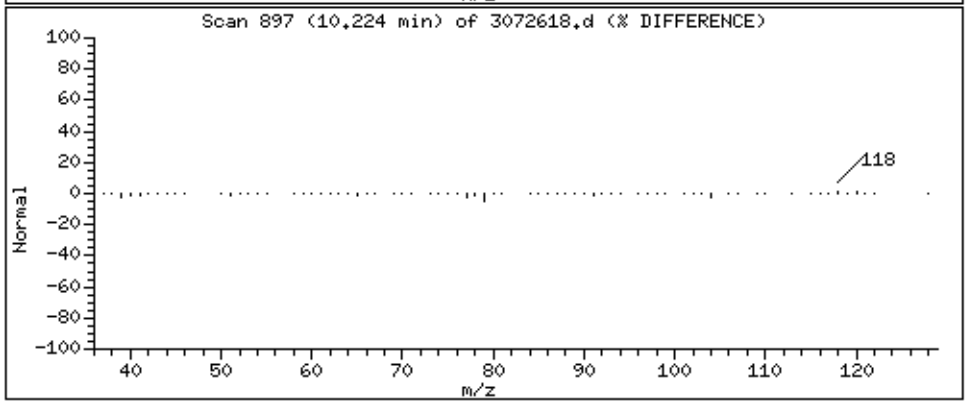












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Client Sample ID: SG-VW33A-02

Lab ID#: 2107284-11A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3072619**	**Date of Collection:**	**7/14/21 12:18:00 PM**
Dil. Factor:	**2.54**	**Date of Analysis:**	**7/26/21 10:56 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1,2-Tetrachloroethane	5.1	Not Detected	35	Not Detected
1,1,1-Trichloroethane	1.3	Not Detected	6.9	Not Detected
1,1,2,2-Tetrachloroethane	1.3	Not Detected	8.7	Not Detected
1,1,2-Trichloroethane	1.3	Not Detected	6.9	Not Detected
1,1-Dichloroethane	1.3	Not Detected	5.1	Not Detected
1,1-Dichloroethene	1.3	Not Detected	5.0	Not Detected
1,1-Difluoroethane	5.1	Not Detected	14	Not Detected
1,2,3-Trichloropropane	5.1	Not Detected	31	Not Detected
1,2,4-Trichlorobenzene	5.1	Not Detected	38	Not Detected
1,2,4-Trimethylbenzene	1.3	Not Detected	6.2	Not Detected
1,2-Dibromo-3-chloropropane	5.1	Not Detected	49	Not Detected
1,2-Dibromoethane (EDB)	1.3	Not Detected	9.8	Not Detected
1,2-Dichlorobenzene	1.3	Not Detected	7.6	Not Detected
1,2-Dichloroethane	1.3	Not Detected	5.1	Not Detected
1,2-Dichloropropane	1.3	Not Detected	5.9	Not Detected
1,3,5-Trimethylbenzene	1.3	Not Detected	6.2	Not Detected
1,3-Butadiene	1.3	Not Detected	2.8	Not Detected
1,3-Dichlorobenzene	1.3	Not Detected	7.6	Not Detected
1,4-Dichlorobenzene	1.3	Not Detected	7.6	Not Detected
1,4-Dioxane	5.1	Not Detected	18	Not Detected
2,2,4-Trimethylpentane	1.3	Not Detected	5.9	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.1	Not Detected	15	Not Detected
2-Hexanone	5.1	Not Detected	21	Not Detected
2-Propanol	5.1	Not Detected	12	Not Detected
3-Chloropropene	5.1	Not Detected	16	Not Detected
4-Ethyltoluene	1.3	Not Detected	6.2	Not Detected
4-Methyl-2-pentanone	1.3	Not Detected	5.2	Not Detected
Acetone	13	15	30	35
Acrolein	5.1	Not Detected	12	Not Detected
Acrylonitrile	5.1	Not Detected	11	Not Detected
alpha-Chlorotoluene	1.3	Not Detected	6.6	Not Detected
Benzene	1.3	Not Detected	4.0	Not Detected
Bromodichloromethane	1.3	Not Detected	8.5	Not Detected
Bromoform	1.3	Not Detected	13	Not Detected
Bromomethane	13	Not Detected	49	Not Detected
Carbon Disulfide	5.1	6.8	16	21
Carbon Tetrachloride	1.3	Not Detected	8.0	Not Detected
Chlorobenzene	1.3	Not Detected	5.8	Not Detected
Chloroethane	5.1	Not Detected	13	Not Detected
Chloroform	1.3	Not Detected	6.2	Not Detected
Chloromethane	13	Not Detected	26	Not Detected
cis-1,2-Dichloroethene	1.3	Not Detected	5.0	Not Detected

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Client Sample ID: SG-VW33A-02

Lab ID#: 2107284-11A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3072619**	**Date of Collection:**	**7/14/21 12:18:00 PM**
Dil. Factor:	**2.54**	**Date of Analysis:**	**7/26/21 10:56 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,3-Dichloropropene	1.3	Not Detected	5.8	Not Detected
Cumene	1.3	Not Detected	6.2	Not Detected
Cyclohexane	1.3	Not Detected	4.4	Not Detected
Dibromochloromethane	1.3	Not Detected	11	Not Detected
Dibromomethane	5.1	Not Detected	36	Not Detected
Ethanol	13	Not Detected	24	Not Detected
Ethyl Acetate	5.1	Not Detected	18	Not Detected
Ethyl Benzene	1.3	Not Detected	5.5	Not Detected
Ethyl-tert-butyl ether	5.1	Not Detected	21	Not Detected
Freon 11	1.3	Not Detected	7.1	Not Detected
Freon 12	1.3	Not Detected	6.3	Not Detected
Freon 113	1.3	Not Detected	9.7	Not Detected
Freon 114	1.3	Not Detected	8.9	Not Detected
Freon 134a	5.1	Not Detected	21	Not Detected
Heptane	1.3	Not Detected	5.2	Not Detected
Hexachlorobutadiene	5.1	Not Detected	54	Not Detected
Hexachloroethane	5.1	Not Detected	49	Not Detected
Hexane	1.3	Not Detected	4.5	Not Detected
Iodomethane	13	Not Detected	74	Not Detected
Isopropyl ether	5.1	Not Detected	21	Not Detected
m,p-Xylene	1.3	Not Detected	5.5	Not Detected
Methyl tert-butyl ether	5.1	Not Detected	18	Not Detected
Methylene Chloride	13	Not Detected	44	Not Detected
Naphthalene	2.5	Not Detected	13	Not Detected
o-Xylene	1.3	Not Detected	5.5	Not Detected
Propylbenzene	1.3	Not Detected	6.2	Not Detected
Propylene	5.1	Not Detected	8.7	Not Detected
Styrene	1.3	Not Detected	5.4	Not Detected
tert-Amyl methyl ether	5.1	Not Detected	21	Not Detected
tert-Butyl alcohol	5.1	Not Detected	15	Not Detected
Tetrachloroethene	1.3	2.2	8.6	15
Tetrahydrofuran	1.3	Not Detected	3.7	Not Detected
Toluene	1.3	2.0	4.8	7.5
TPH ref. to Gasoline (MW=100)	130	Not Detected	520	Not Detected
trans-1,2-Dichloroethene	1.3	Not Detected	5.0	Not Detected
trans-1,3-Dichloropropene	1.3	Not Detected	5.8	Not Detected
Trichloroethene	1.3	Not Detected	6.8	Not Detected
Vinyl Acetate	5.1	Not Detected	18	Not Detected
Vinyl Bromide	5.1	Not Detected	22	Not Detected
Vinyl Chloride	1.3	Not Detected	3.2	Not Detected

Container Type: 1 Liter Summa Canister

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Client Sample ID: SG-VW33A-02

Lab ID#: 2107284-11A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3072619**	**Date of Collection: 7/14/21 12:18:00 PM**	
Dil. Factor:	**2.54**	**Date of Analysis: 7/26/21 10:56 PM**	

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	98	70-130
4-Bromofluorobenzene	92	70-130

US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msd3.i/26JUL21.b/3072619.d
Lab Smp Id: 2107284-11A
Inj Date : 26-JUL-2021 22:56
Operator : DF Inst ID: msd3.i
Smp Info : 200mL O0849
Misc Info : 10.2 Hg->9.9 psi
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msd3.i/26JUL21.b/321q0622a.m
Meth Date : 28-Jul-2021 12:16 uexa Quant Type: ISTD
Cal Date : 23-JUN-2021 00:09 Cal File: 3062223.d
Als bottle: 2
Dil Factor: 2.54000
Integrator: HP RTE Compound Sublist: AEC25677.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE		(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 90 Bromochloromethane						CAS #: 74-97-5		
5.270	5.284 (1.000)	130	233678	25.0000			80.00- 120.00	100.00
5.270	5.284 (1.000)	128	193637				48.46- 108.46	82.87
5.270	5.284 (1.000)	49	339784				120.39- 180.39	145.41
* 108 1,4-Difluorobenzene						CAS #: 540-36-3		
6.166	6.166 (1.000)	114	792586	25.0000			80.00- 120.00	100.00
6.166	6.166 (1.000)	88	115650				0.00- 45.52	14.59
* 153 Chlorobenzene-d5						CAS #: 3114-55-4		
8.612	8.612 (1.000)	117	737935	25.0000			80.00- 120.00	100.00
8.612	8.612 (1.000)	82	380911				25.46- 85.46	51.62
$ 104 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
5.816	5.816 (1.104)	65	314554	24.4607	24.461		80.00- 120.00	100.00
5.816	5.816 (1.104)	67	154808				21.66- 81.66	49.22
$ 134 Toluene-d8						CAS #: 2037-26-5		
7.380	7.387 (1.197)	98	815264	24.9734	24.973		80.00- 120.00	100.00
7.380	7.387 (1.197)	70	90630				0.00- 41.47	11.12

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 134 Toluene-d8 (continued)							
7.380	7.387 (1.197)	100	532063			36.47- 96.47	65.26
$ 170 4-Bromofluorobenzene					CAS #: 460-00-4		
9.601	9.601 (1.115)	174	449004	23.0038	23.004	80.00- 120.00	100.00
9.601	9.601 (1.115)	95	510730			93.06- 153.06	113.75
9.601	9.601 (1.115)	176	415891			62.87- 122.87	92.63
47 Acetone					CAS #: 67-64-1		
3.242	3.214 (0.615)	58	23006	5.87145	14.913	80.00- 120.00	100.00
3.242	3.214 (0.615)	43	68448			299.66- 359.66	297.52
48 Carbon Disulfide					CAS #: 75-15-0		
3.284	3.298 (0.623)	76	47211	2.67570	6.796	80.00- 120.00	100.00
137 Toluene					CAS #: 108-88-3		
7.437	7.437 (1.206)	91	18947	0.78072	1.983	80.00- 120.00	100.00
7.437	7.437 (1.206)	92	11436			28.30- 88.30	60.36
142 Tetrachloroethene					CAS #: 127-18-4		
7.874	7.881 (0.914)	166	10243	0.88603	2.250	80.00- 120.00	100.00
7.874	7.881 (0.914)	129	8677			48.71- 108.71	84.71
7.874	7.881 (0.914)	131	7923			46.55- 106.55	77.35

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd3.i
Lab File ID: 3072619.d
Lab Smp Id: 2107284-11A
Analysis Type: VOA
Quant Type: ISTD
Operator: DF
Method File: /chem/msd3.i/26JUL21.b/321q0622a.m
Misc Info: 10.2 Hg->9.9 psi

Calibration Date: 26-JUL-2021
Calibration Time: 10:10
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	263983	158390	369576	233678	-11.48
108 1,4-Difluorobenze	833448	500069	1166827	792586	-4.90
153 Chlorobenzene-d5	741338	444803	1037873	737935	-0.46

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.28	4.95	5.61	5.27	-0.26
108 1,4-Difluorobenze	6.17	5.84	6.50	6.17	0.00
153 Chlorobenzene-d5	8.61	8.28	8.94	8.61	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 28-Jul-2021 13:43

US32TAR1

RECOVERY REPORT

Client Name: Client SDG: 26JUL21
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 2107284-11A
Level: LOW Operator: DF
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT20_new.spk Quant Type: ISTD
Sublist File: AEC25677.sub
Method File: /chem/msd3.i/26JUL21.b/321q0622a.m
Misc Info: 10.2 Hg->9.9 psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 104 1,2-Dichloroethan	25.000	24.461	97.84	70-130
$ 134 Toluene-d8	25.000	24.973	99.89	70-130
$ 170 4-Bromofluorobenz	25.000	23.004	92.02	70-130

Data File: /chem/msd3.i/26JUL21.b/3072619.d

Date : 26-JUL-2021 22:56

Client ID:

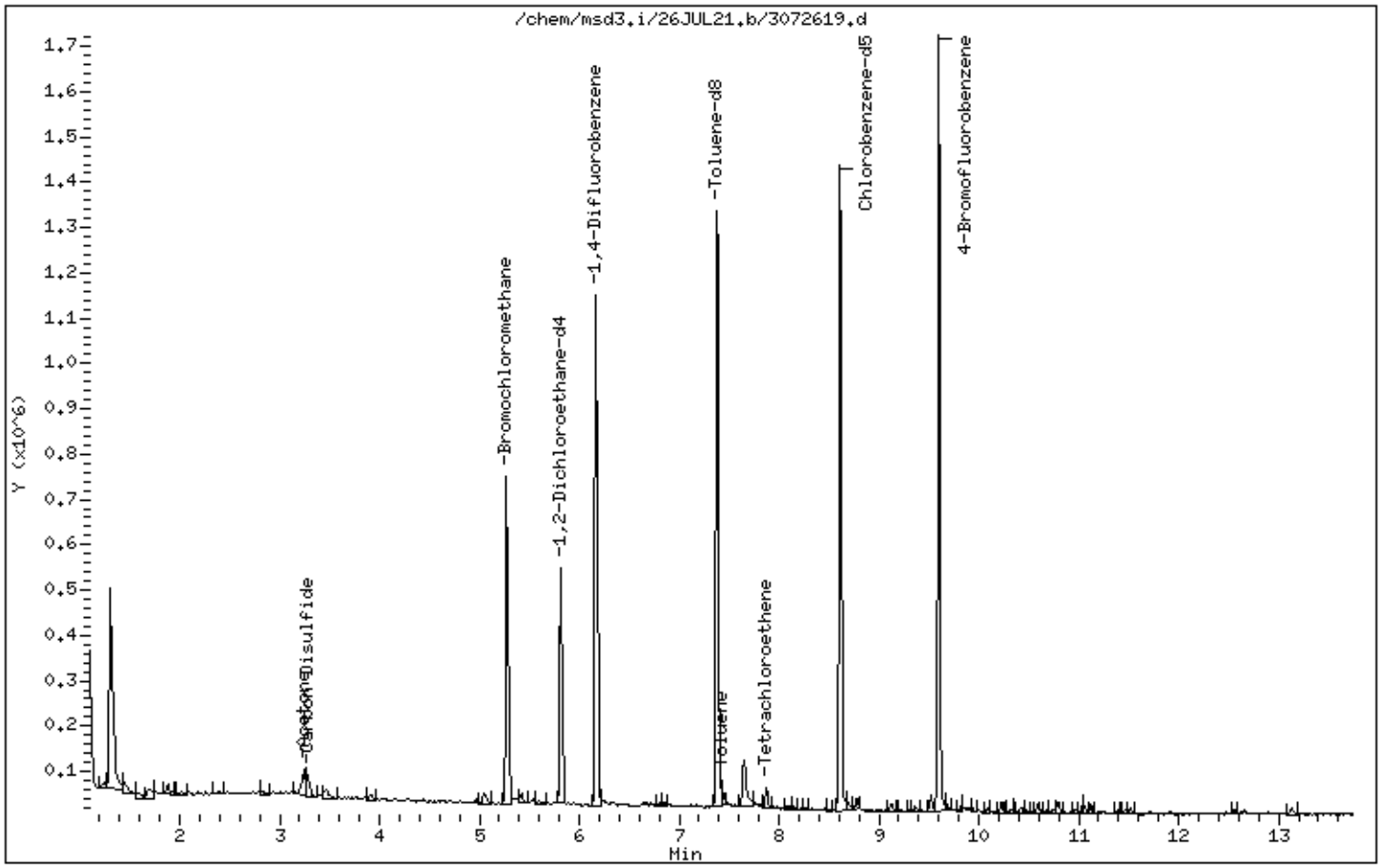
Instrument: msd3.i

Sample Info: 200mL 00849

Operator: DF

Column phase: RTX-624

Column diameter: 0.25



Data File: /chem/msd3.i/26JUL21.b/3072619.d

Date : 26-JUL-2021 22:56

Client ID:

Instrument: msd3.i

Sample Info: 200mL 00849

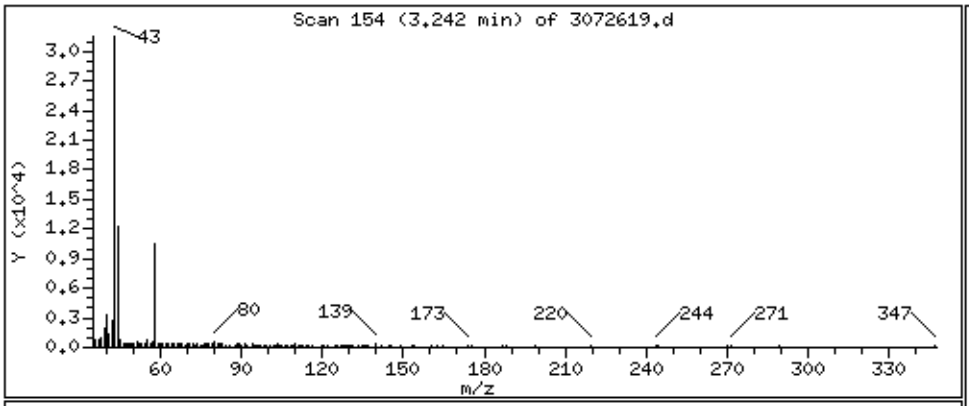
Operator: DF

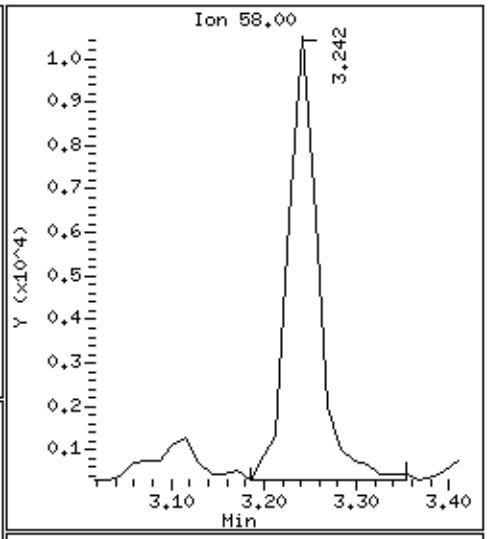
Column phase: RTX-624

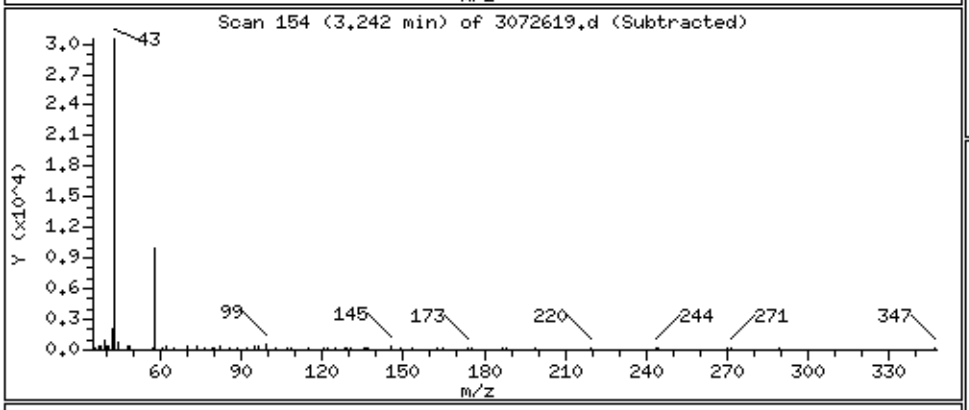
Column diameter: 0.25

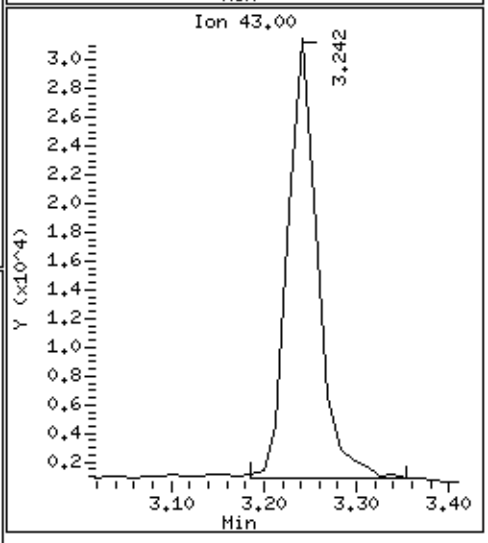
47 Acetone

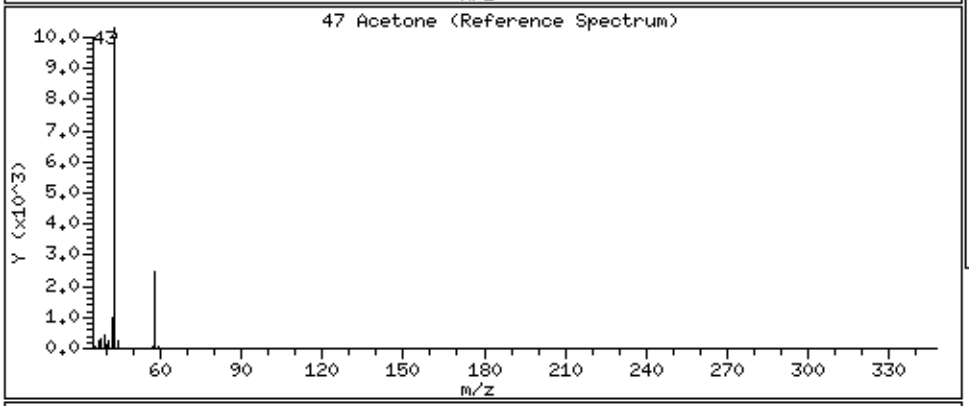
Concentration: 14.913 PPBV

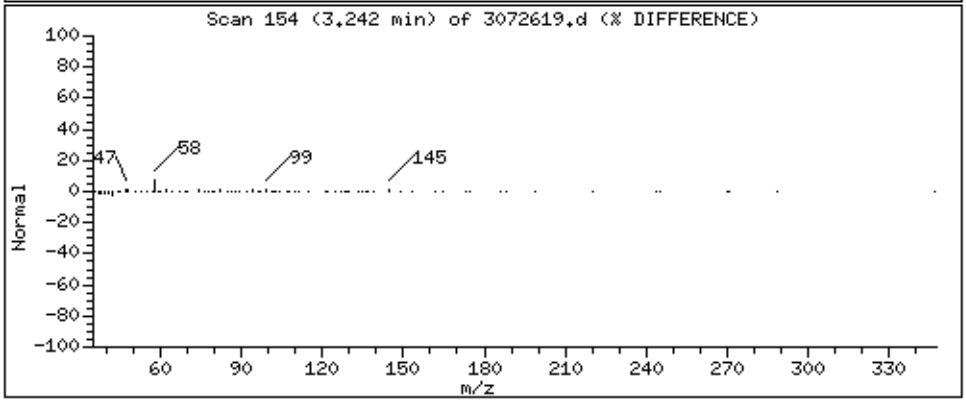












Data File: /chem/msd3.i/26JUL21.b/3072619.d

Date : 26-JUL-2021 22:56

Client ID:

Instrument: msd3.i

Sample Info: 200mL 00849

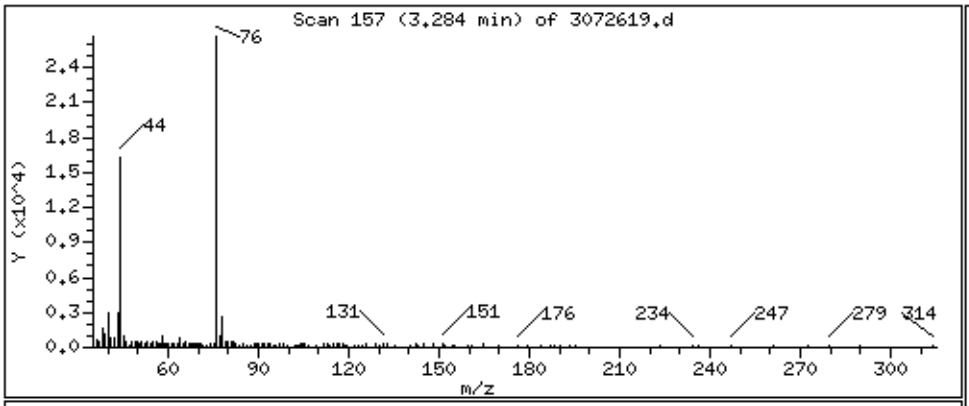
Operator: DF

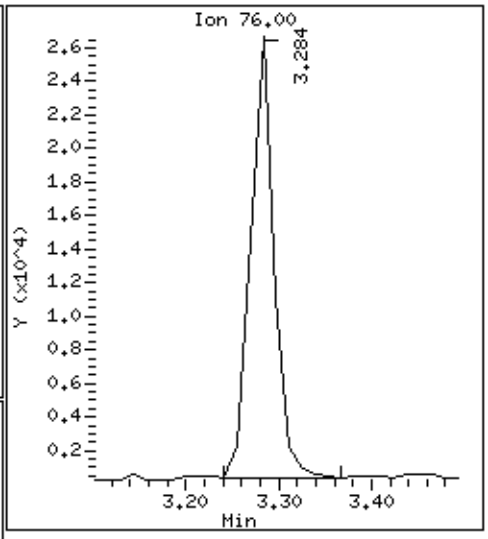
Column phase: RTX-624

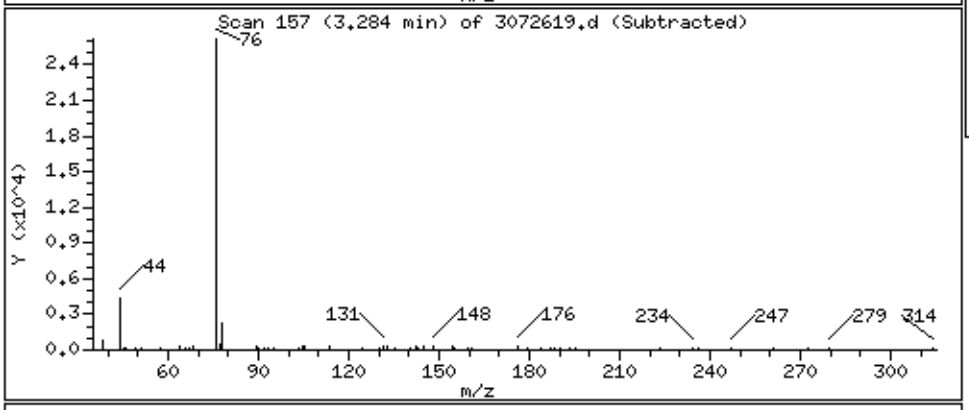
Column diameter: 0.25

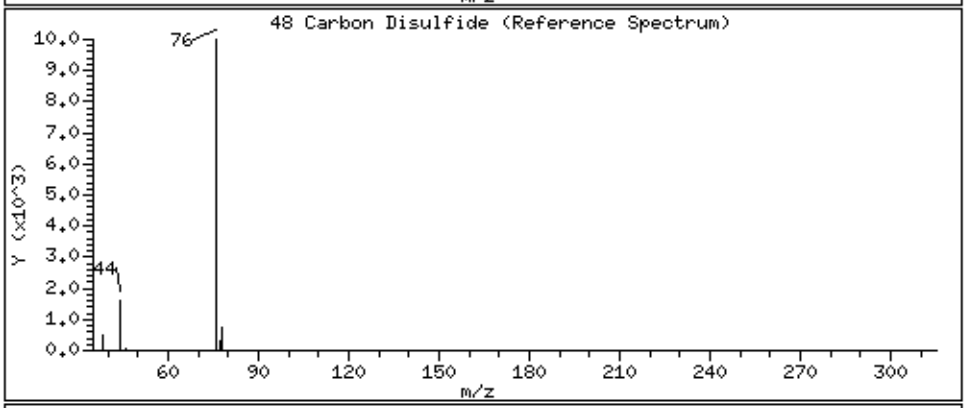
48 Carbon Disulfide

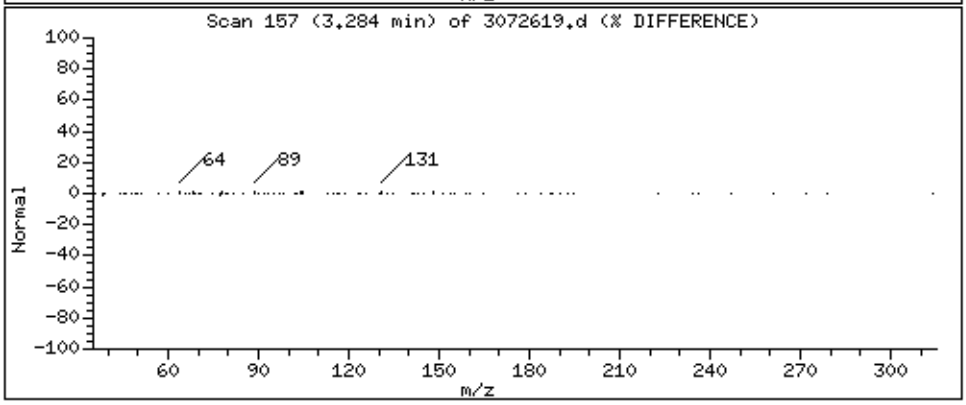
Concentration: 6.796 PPBV











Data File: /chem/msd3.i/26JUL21.b/3072619.d

Date : 26-JUL-2021 22:56

Client ID:

Instrument: msd3.i

Sample Info: 200mL 00849

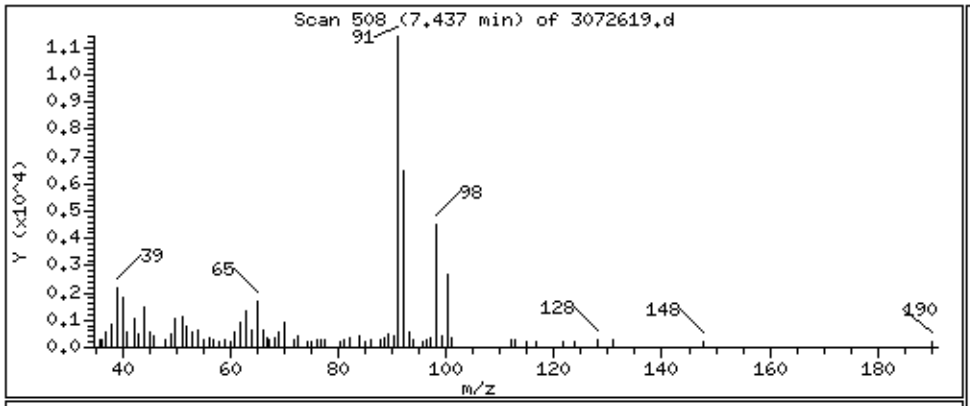
Operator: DF

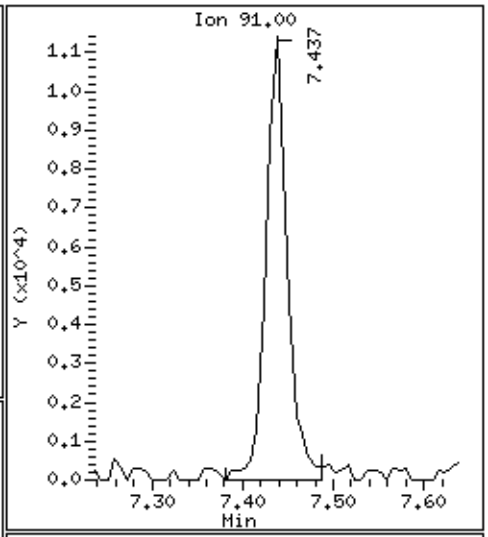
Column phase: RTX-624

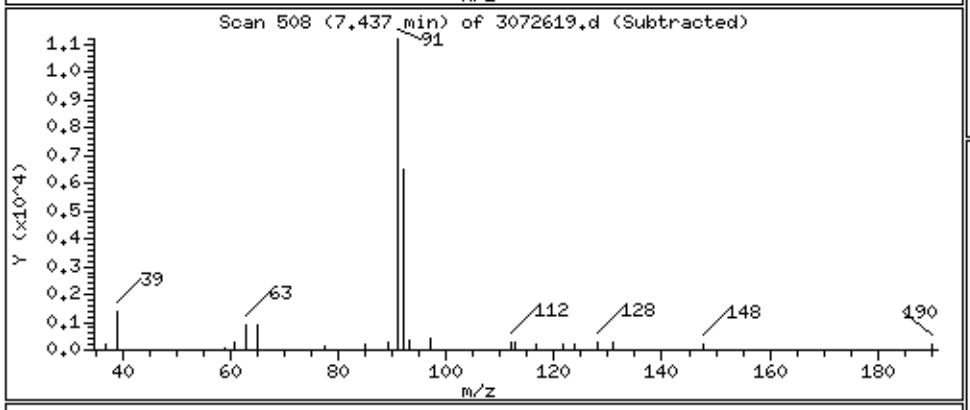
Column diameter: 0.25

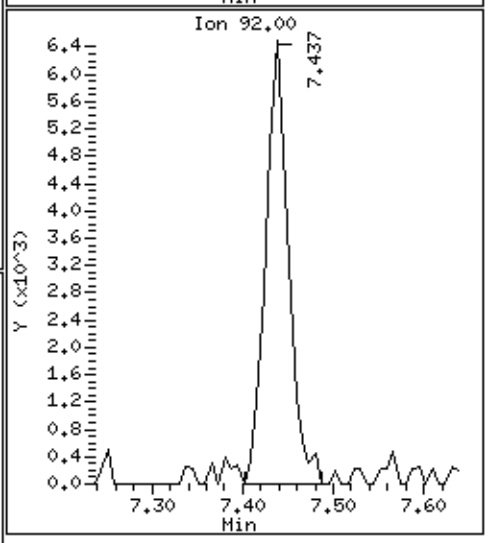
137 Toluene

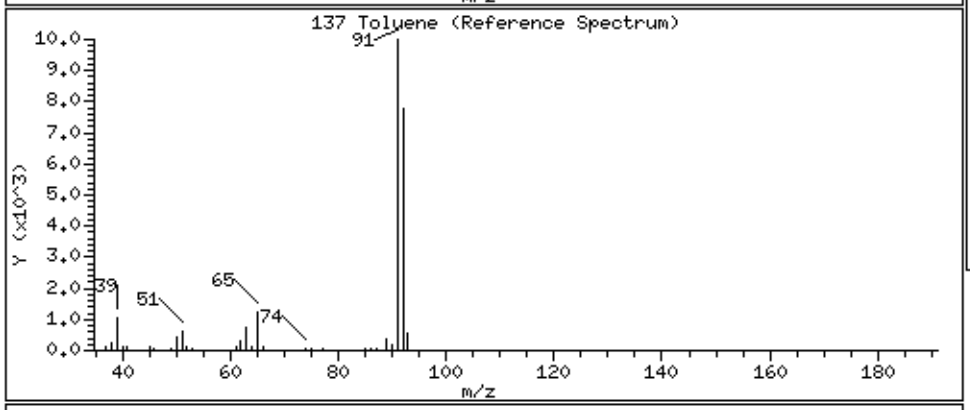
Concentration: 1.983 PPBV

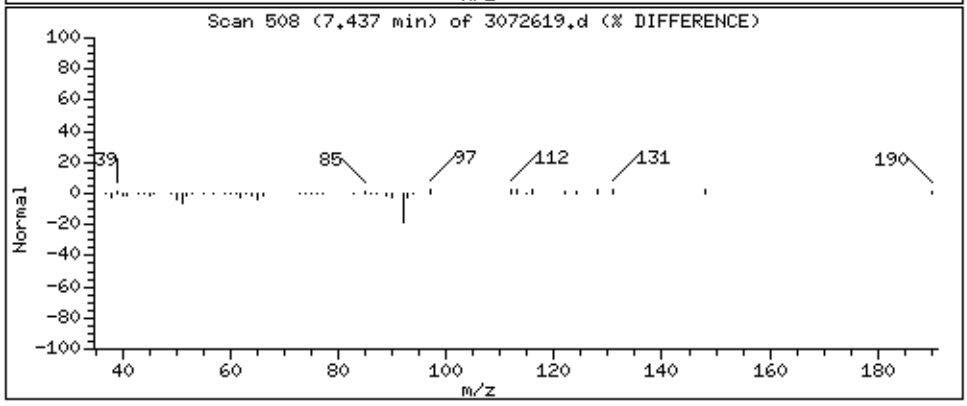












Data File: /chem/msd3.i/26JUL21.b/3072619.d

Date : 26-JUL-2021 22:56

Client ID:

Instrument: msd3.i

Sample Info: 200mL 00849

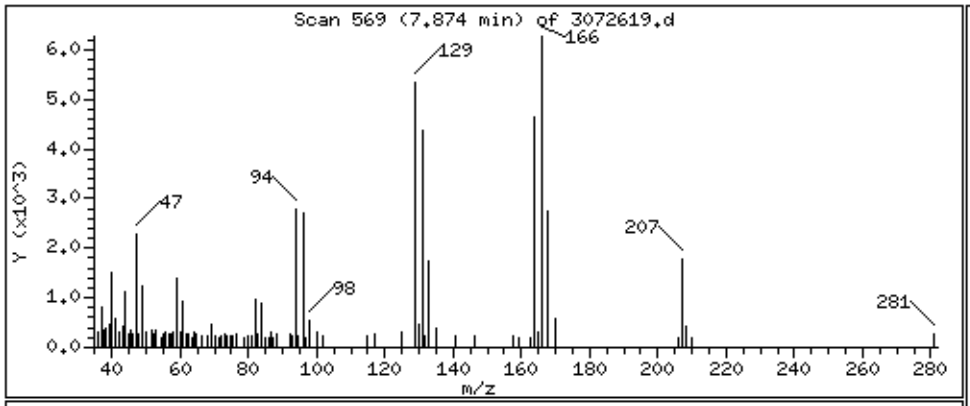
Operator: DF

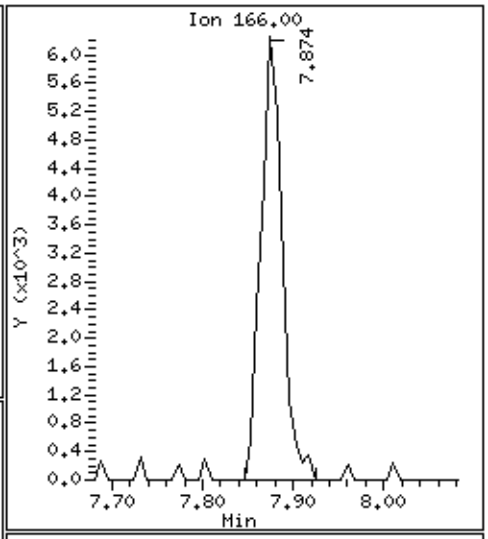
Column phase: RTX-624

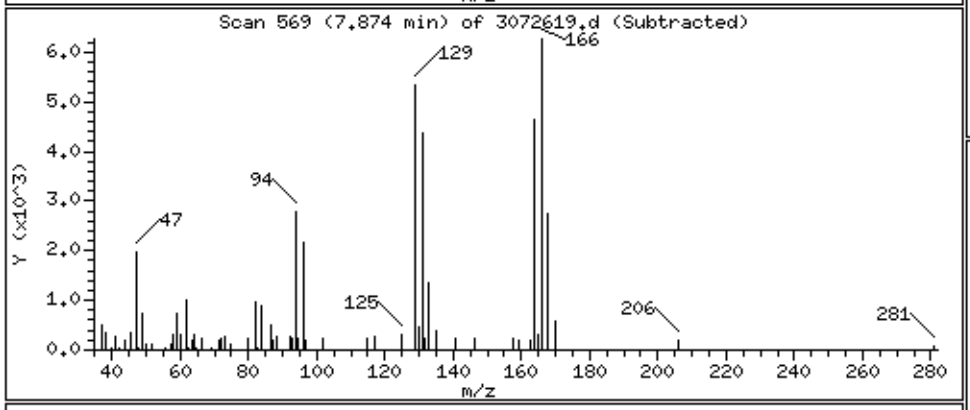
Column diameter: 0.25

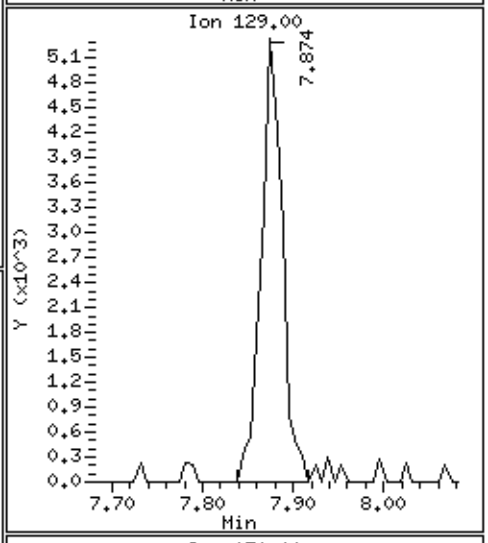
142 Tetrachloroethene

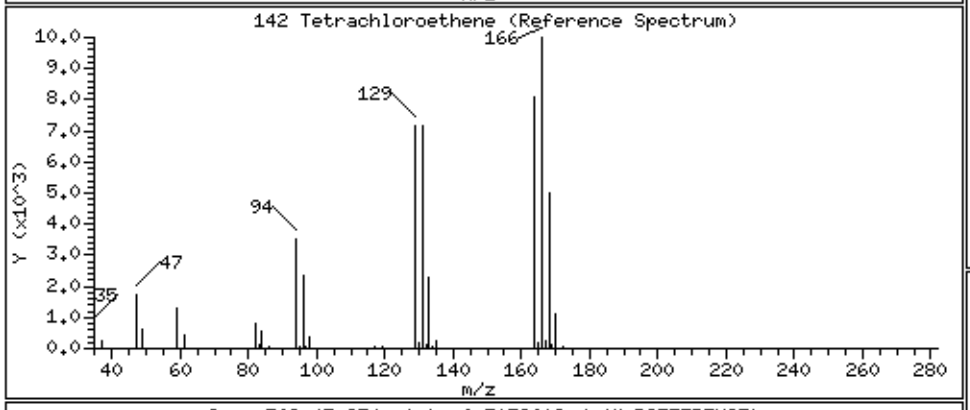
Concentration: 2.250 PPBV

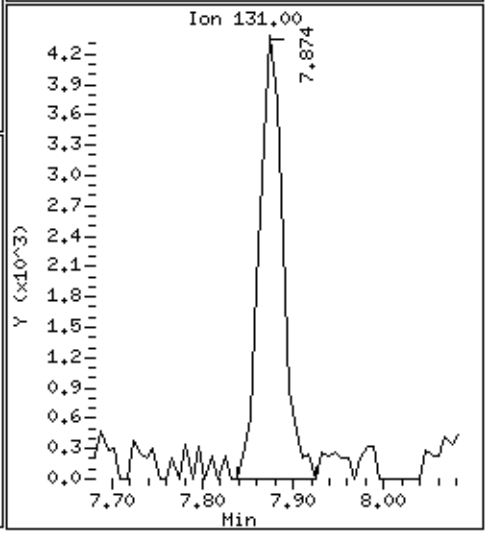


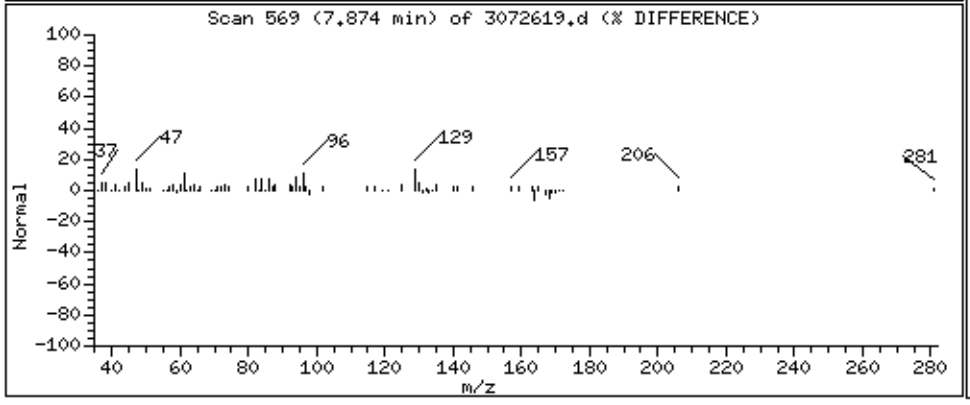












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Client Sample ID: SG-VW33B-02

Lab ID#: 2107284-12A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3072620**	**Date of Collection:**	**7/14/21 12:41:00 PM**
Dil. Factor:	**2.50**	**Date of Analysis:**	**7/26/21 11:26 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1,2-Tetrachloroethane	5.0	Not Detected	34	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.8	Not Detected
1,1,2,2-Tetrachloroethane	1.2	Not Detected	8.6	Not Detected
1,1,2-Trichloroethane	1.2	Not Detected	6.8	Not Detected
1,1-Dichloroethane	1.2	Not Detected	5.0	Not Detected
1,1-Dichloroethene	1.2	Not Detected	5.0	Not Detected
1,1-Difluoroethane	5.0	Not Detected	14	Not Detected
1,2,3-Trichloropropane	5.0	Not Detected	30	Not Detected
1,2,4-Trichlorobenzene	5.0	Not Detected	37	Not Detected
1,2,4-Trimethylbenzene	1.2	Not Detected	6.1	Not Detected
1,2-Dibromo-3-chloropropane	5.0	Not Detected	48	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.6	Not Detected
1,2-Dichlorobenzene	1.2	Not Detected	7.5	Not Detected
1,2-Dichloroethane	1.2	Not Detected	5.0	Not Detected
1,2-Dichloropropane	1.2	Not Detected	5.8	Not Detected
1,3,5-Trimethylbenzene	1.2	Not Detected	6.1	Not Detected
1,3-Butadiene	1.2	Not Detected	2.8	Not Detected
1,3-Dichlorobenzene	1.2	Not Detected	7.5	Not Detected
1,4-Dichlorobenzene	1.2	Not Detected	7.5	Not Detected
1,4-Dioxane	5.0	Not Detected	18	Not Detected
2,2,4-Trimethylpentane	1.2	Not Detected	5.8	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.0	Not Detected	15	Not Detected
2-Hexanone	5.0	Not Detected	20	Not Detected
2-Propanol	5.0	5.5	12	14
3-Chloropropene	5.0	Not Detected	16	Not Detected
4-Ethyltoluene	1.2	Not Detected	6.1	Not Detected
4-Methyl-2-pentanone	1.2	Not Detected	5.1	Not Detected
Acetone	12	Not Detected	30	Not Detected
Acrolein	5.0	Not Detected	11	Not Detected
Acrylonitrile	5.0	Not Detected	11	Not Detected
alpha-Chlorotoluene	1.2	Not Detected	6.5	Not Detected
Benzene	1.2	Not Detected	4.0	Not Detected
Bromodichloromethane	1.2	Not Detected	8.4	Not Detected
Bromoform	1.2	Not Detected	13	Not Detected
Bromomethane	12	Not Detected	48	Not Detected
Carbon Disulfide	5.0	Not Detected	16	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.9	Not Detected
Chlorobenzene	1.2	Not Detected	5.8	Not Detected
Chloroethane	5.0	Not Detected	13	Not Detected
Chloroform	1.2	1.7	6.1	8.2
Chloromethane	12	Not Detected	26	Not Detected
cis-1,2-Dichloroethene	1.2	Not Detected	5.0	Not Detected

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Client Sample ID: SG-VW33B-02

Lab ID#: 2107284-12A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3072620**	**Date of Collection:**	**7/14/21 12:41:00 PM**
Dil. Factor:	**2.50**	**Date of Analysis:**	**7/26/21 11:26 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,3-Dichloropropene	1.2	Not Detected	5.7	Not Detected
Cumene	1.2	Not Detected	6.1	Not Detected
Cyclohexane	1.2	Not Detected	4.3	Not Detected
Dibromochloromethane	1.2	Not Detected	11	Not Detected
Dibromomethane	5.0	Not Detected	36	Not Detected
Ethanol	12	Not Detected	24	Not Detected
Ethyl Acetate	5.0	Not Detected	18	Not Detected
Ethyl Benzene	1.2	Not Detected	5.4	Not Detected
Ethyl-tert-butyl ether	5.0	Not Detected	21	Not Detected
Freon 11	1.2	Not Detected	7.0	Not Detected
Freon 12	1.2	1.6	6.2	7.9
Freon 113	1.2	Not Detected	9.6	Not Detected
Freon 114	1.2	Not Detected	8.7	Not Detected
Freon 134a	5.0	Not Detected	21	Not Detected
Heptane	1.2	Not Detected	5.1	Not Detected
Hexachlorobutadiene	5.0	Not Detected	53	Not Detected
Hexachloroethane	5.0	Not Detected	48	Not Detected
Hexane	1.2	Not Detected	4.4	Not Detected
Iodomethane	12	Not Detected	72	Not Detected
Isopropyl ether	5.0	Not Detected	21	Not Detected
m,p-Xylene	1.2	Not Detected	5.4	Not Detected
Methyl tert-butyl ether	5.0	Not Detected	18	Not Detected
Methylene Chloride	12	Not Detected	43	Not Detected
Naphthalene	2.5	Not Detected	13	Not Detected
o-Xylene	1.2	Not Detected	5.4	Not Detected
Propylbenzene	1.2	Not Detected	6.1	Not Detected
Propylene	5.0	Not Detected	8.6	Not Detected
Styrene	1.2	Not Detected	5.3	Not Detected
tert-Amyl methyl ether	5.0	Not Detected	21	Not Detected
tert-Butyl alcohol	5.0	Not Detected	15	Not Detected
Tetrachloroethene	1.2	8.5	8.5	57
Tetrahydrofuran	1.2	Not Detected	3.7	Not Detected
Toluene	1.2	Not Detected	4.7	Not Detected
TPH ref. to Gasoline (MW=100)	120	Not Detected	510	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	5.0	Not Detected
trans-1,3-Dichloropropene	1.2	Not Detected	5.7	Not Detected
Trichloroethene	1.2	Not Detected	6.7	Not Detected
Vinyl Acetate	5.0	Not Detected	18	Not Detected
Vinyl Bromide	5.0	Not Detected	22	Not Detected
Vinyl Chloride	1.2	Not Detected	3.2	Not Detected

Container Type: 1 Liter Summa Canister

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Client Sample ID: SG-VW33B-02

Lab ID#: 2107284-12A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3072620**	**Date of Collection: 7/14/21 12:41:00 PM**	
Dil. Factor:	**2.50**	**Date of Analysis: 7/26/21 11:26 PM**	

Surrogates	%Recovery	Method Limits
Toluene-d8	95	70-130
1,2-Dichloroethane-d4	98	70-130
4-Bromofluorobenzene	95	70-130

US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msd3.i/26JUL21.b/3072620.d
Lab Smp Id: 2107284-12A
Inj Date : 26-JUL-2021 23:26
Operator : DF Inst ID: msd3.i
Smp Info : 200mL 33637
Misc Info : 9.8 Hg->10 psi
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msd3.i/26JUL21.b/321q0622a.m
Meth Date : 28-Jul-2021 12:16 uexa Quant Type: ISTD
Cal Date : 23-JUN-2021 00:09 Cal File: 3062223.d
Als bottle: 3
Dil Factor: 2.50000
Integrator: HP RTE Compound Sublist: AEC25677.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE		(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 90 Bromochloromethane							CAS #: 74-97-5	
5.284	5.284 (1.000)	130	280054	25.0000			80.00- 120.00	100.00
5.284	5.284 (1.000)	128	219343				48.46- 108.46	78.32
5.284	5.284 (1.000)	49	397741				120.39- 180.39	142.02
* 108 1,4-Difluorobenzene							CAS #: 540-36-3	
6.166	6.166 (1.000)	114	930245	25.0000			80.00- 120.00	100.00
6.166	6.166 (1.000)	88	137202				0.00- 45.52	14.75
* 153 Chlorobenzene-d5							CAS #: 3114-55-4	
8.612	8.612 (1.000)	117	824737	25.0000			80.00- 120.00	100.00
8.612	8.612 (1.000)	82	434206				25.46- 85.46	52.65
$ 104 1,2-Dichloroethane-d4							CAS #: 17060-07-0	
5.816	5.816 (1.101)	65	378919	24.5865	24.586		80.00- 120.00	100.00
5.816	5.816 (1.101)	67	181002				21.66- 81.66	47.77
$ 134 Toluene-d8							CAS #: 2037-26-5	
7.387	7.387 (1.198)	98	908211	23.7037	23.704		80.00- 120.00	100.00
7.387	7.387 (1.198)	70	99613				0.00- 41.47	10.97

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 134 Toluene-d8 (continued)							
7.387	7.387 (1.198)	100	596409			36.47- 96.47	65.67
$ 170 4-Bromofluorobenzene					CAS #: 460-00-4		
9.600	9.601 (1.115)	174	517510	23.7230	23.723	80.00- 120.00	100.00
9.600	9.601 (1.115)	95	580945			93.06- 153.06	112.26
9.600	9.601 (1.115)	176	477995			62.87- 122.87	92.36
8 Freon 12					CAS #: 75-71-8		
1.464	1.465 (0.277)	85	12489	0.64017	1.600	80.00- 120.00	100.00
1.464	1.465 (0.277)	87	4940			2.63- 62.63	39.56
52 2-Propanol					CAS #: 67-63-0		
3.423	3.395 (0.648)	45	37442	2.21705	5.543	80.00- 120.00	100.00
3.423	3.395 (0.648)	43	9305			0.00- 48.61	24.85
92 Chloroform					CAS #: 67-66-3		
5.340	5.340 (1.011)	83	11849	0.67482	1.687	80.00- 120.00	100.00
5.340	5.340 (1.011)	85	6734			34.71- 94.71	56.83
142 Tetrachloroethene					CAS #: 127-18-4		
7.881	7.881 (0.915)	166	43783	3.38866	8.472	80.00- 120.00	100.00
7.874	7.881 (0.914)	129	33450			48.71- 108.71	76.40
7.881	7.881 (0.915)	131	32521			46.55- 106.55	74.28

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd3.i
Lab File ID: 3072620.d
Lab Smp Id: 2107284-12A
Analysis Type: VOA
Quant Type: ISTD
Operator: DF
Method File: /chem/msd3.i/26JUL21.b/321q0622a.m
Misc Info: 9.8 Hg->10 psi

Calibration Date: 26-JUL-2021
Calibration Time: 10:10
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	263983	158390	369576	280054	6.09
108 1,4-Difluorobenze	833448	500069	1166827	930245	11.61
153 Chlorobenzene-d5	741338	444803	1037873	824737	11.25

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.28	4.95	5.61	5.28	-0.00
108 1,4-Difluorobenze	6.17	5.84	6.50	6.17	-0.00
153 Chlorobenzene-d5	8.61	8.28	8.94	8.61	-0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 28-Jul-2021 13:44

US32TAR1

RECOVERY REPORT

Client Name: Client SDG: 26JUL21
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 2107284-12A
Level: LOW Operator: DF
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT20_new.spk Quant Type: ISTD
Sublist File: AEC25677.sub
Method File: /chem/msd3.i/26JUL21.b/321q0622a.m
Misc Info: 9.8 Hg->10 psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 104 1,2-Dichloroethan	25.000	24.586	98.35	70-130
$ 134 Toluene-d8	25.000	23.704	94.81	70-130
$ 170 4-Bromofluorobenz	25.000	23.723	94.89	70-130

Data File: /chem/msd3.i/26JUL21.b/3072620.d

Date : 26-JUL-2021 23:26

Client ID:

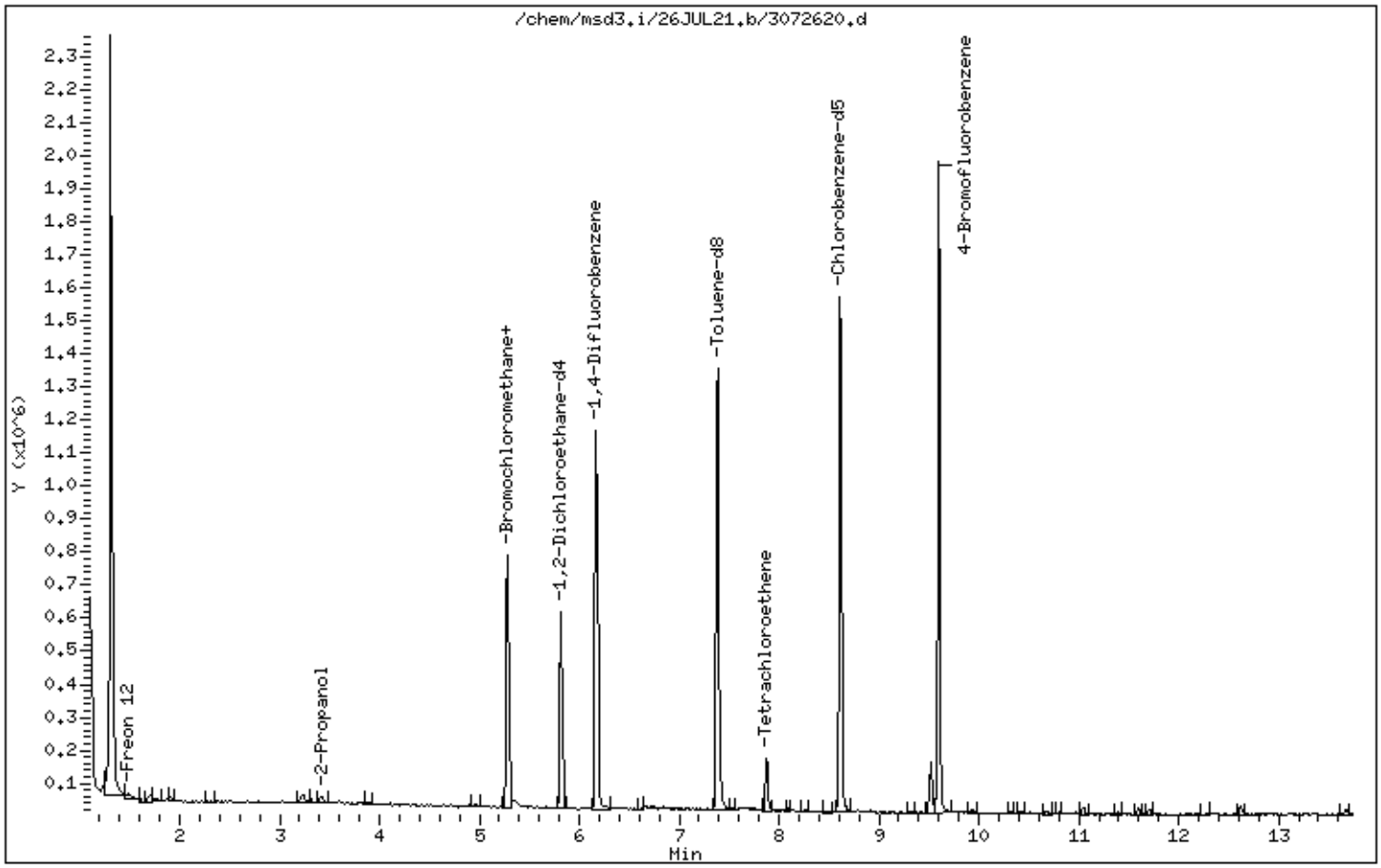
Instrument: msd3.i

Sample Info: 200mL 33637

Operator: DF

Column phase: RTX-624

Column diameter: 0.25



Data File: /chem/msd3.i/26JUL21.b/3072620.d

Date : 26-JUL-2021 23:26

Client ID:

Instrument: msd3.i

Sample Info: 200mL 33637

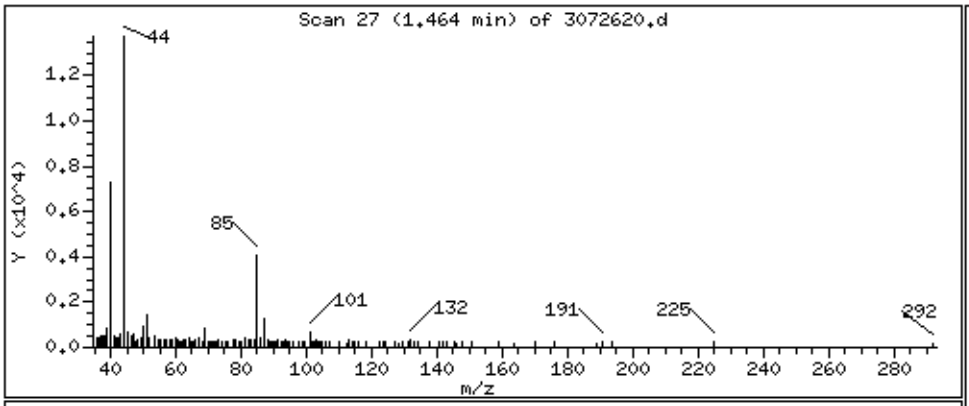
Operator: DF

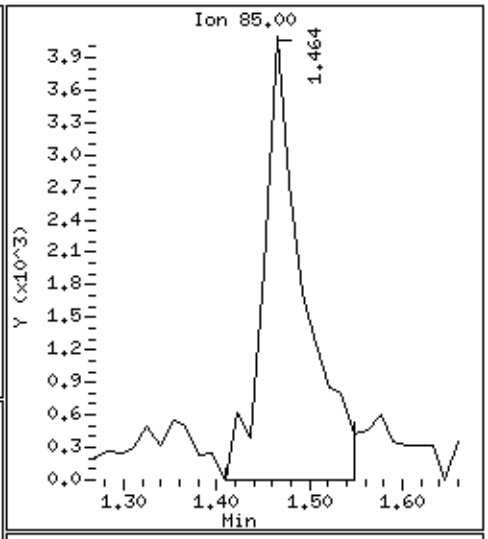
Column phase: RTX-624

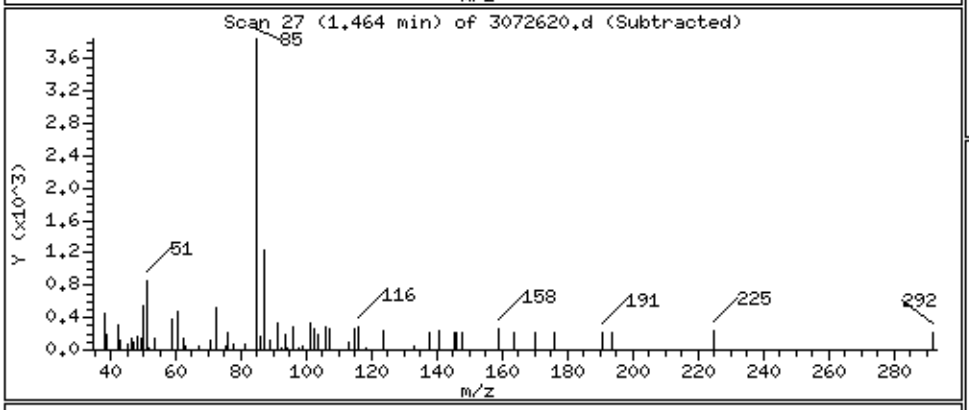
Column diameter: 0.25

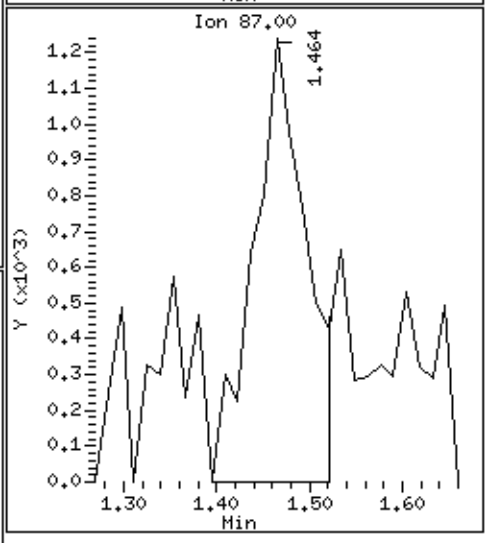
8 Freon 12

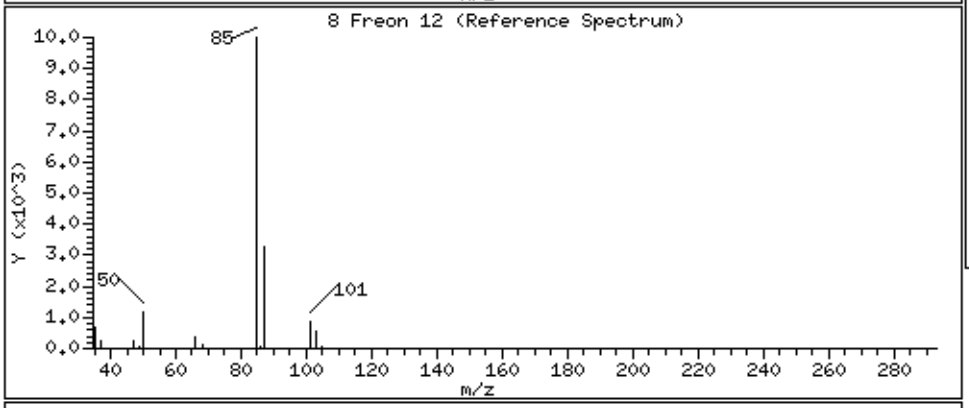
Concentration: 1.600 PPBV

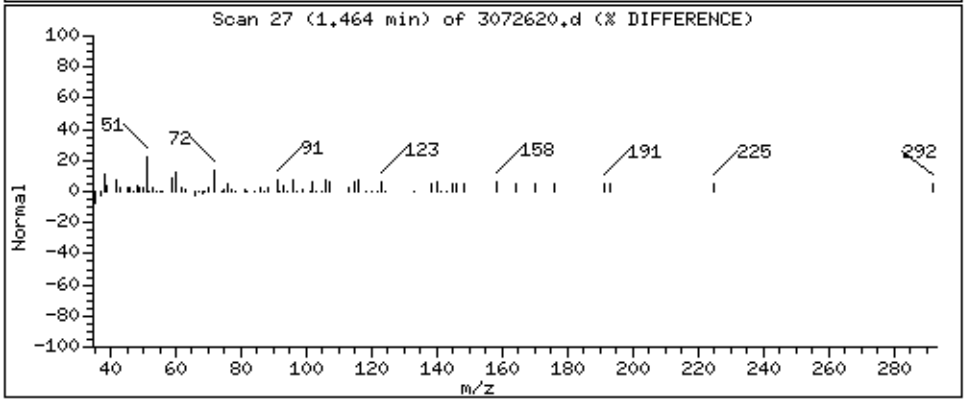












Data File: /chem/msd3.i/26JUL21.b/3072620.d

Date : 26-JUL-2021 23:26

Client ID:

Instrument: msd3.i

Sample Info: 200mL 33637

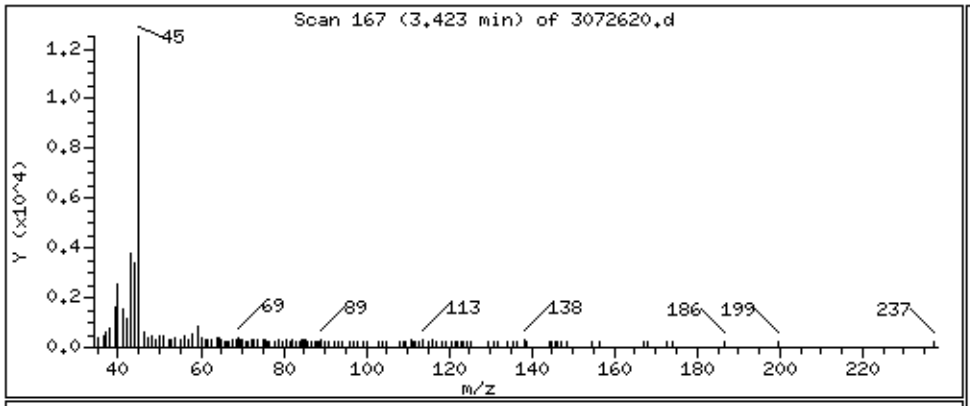
Operator: DF

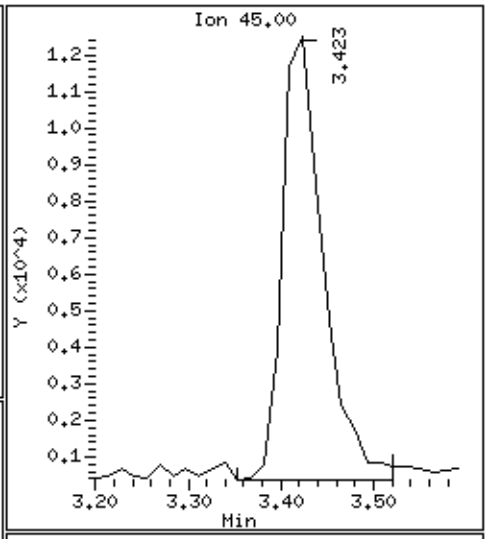
Column phase: RTX-624

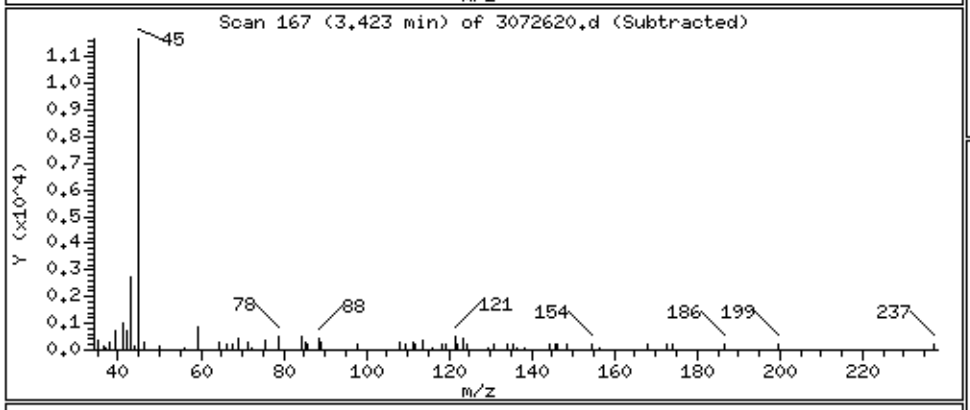
Column diameter: 0.25

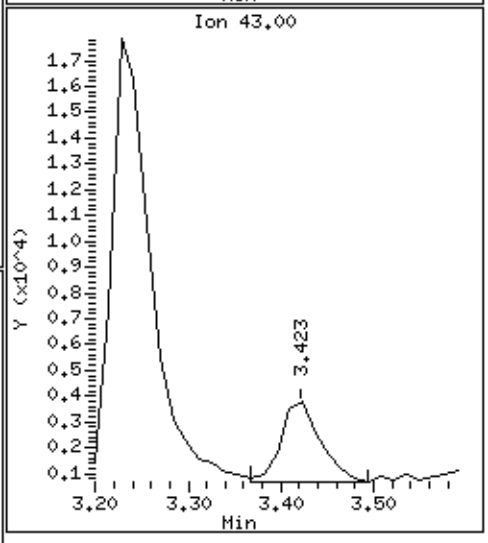
52 2-Propanol

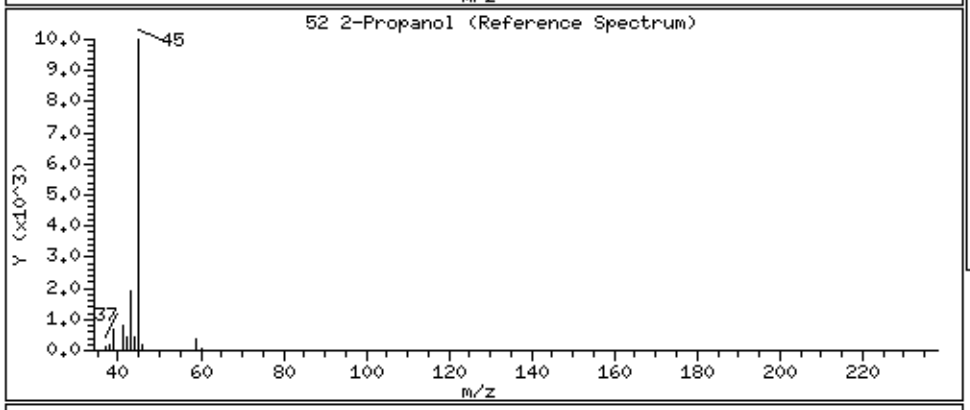
Concentration: 5.543 PPBV

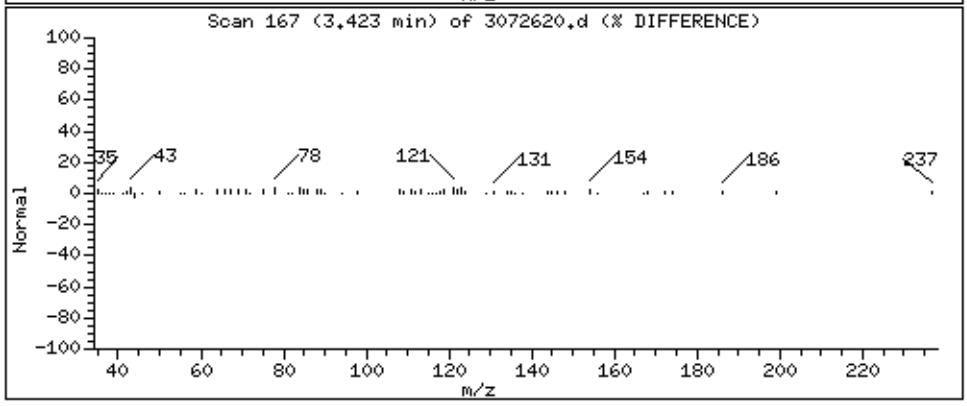












Data File: /chem/msd3.i/26JUL21.b/3072620.d

Date : 26-JUL-2021 23:26

Client ID:

Instrument: msd3.i

Sample Info: 200mL 33637

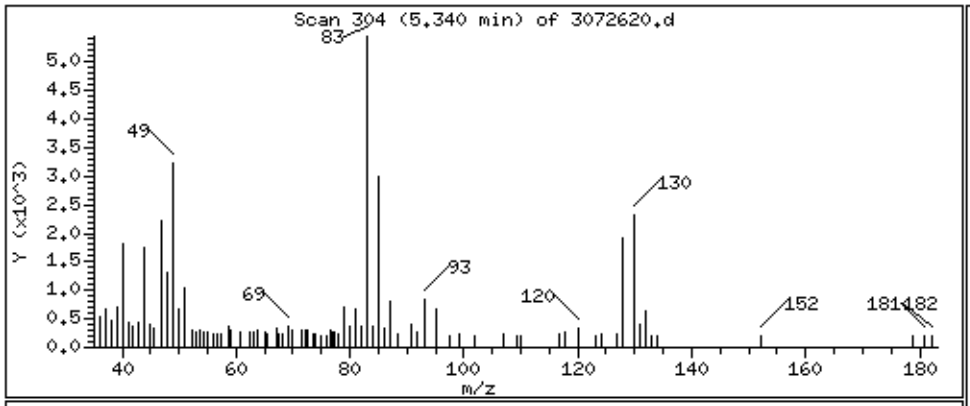
Operator: DF

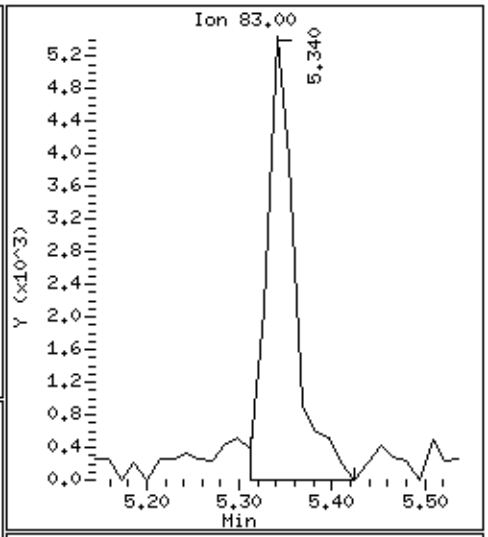
Column phase: RTX-624

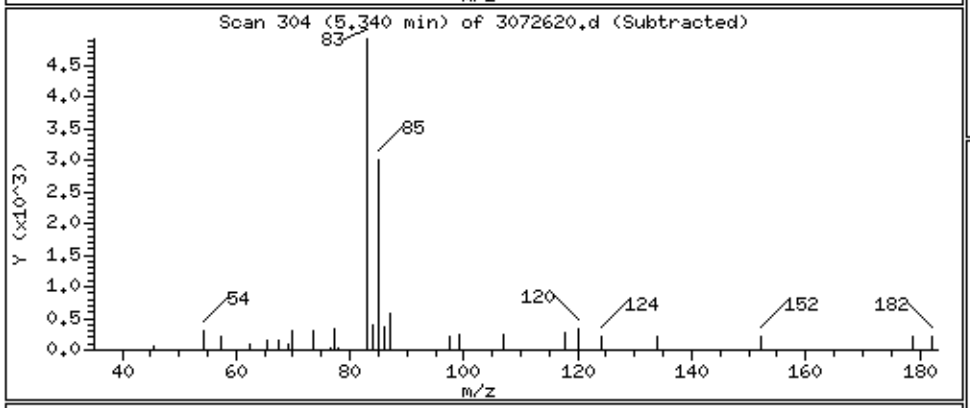
Column diameter: 0.25

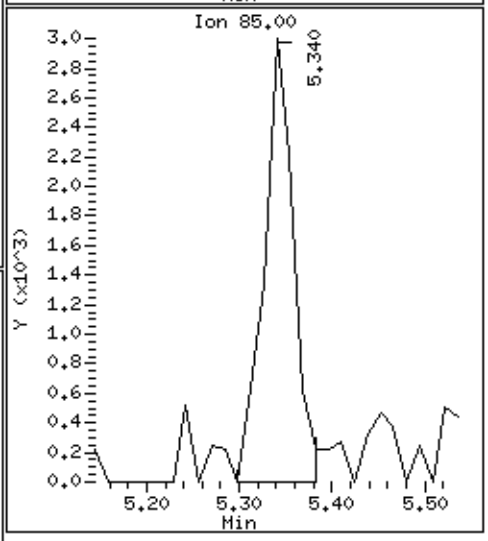
92 Chloroform

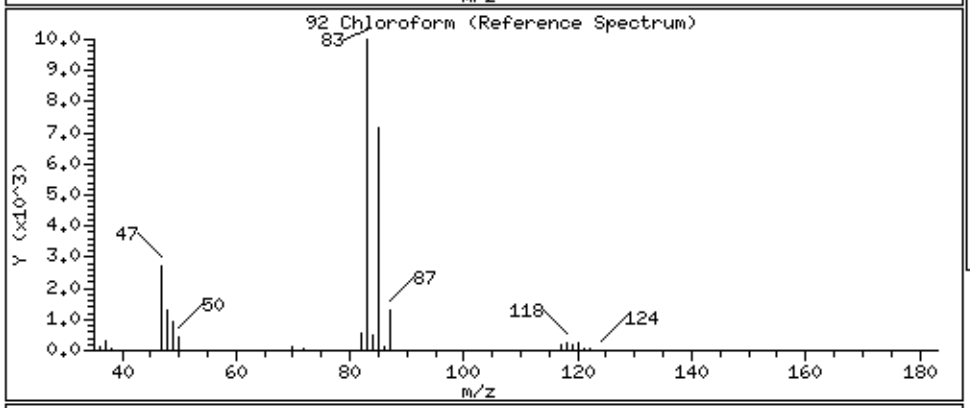
Concentration: 1.687 PPBV

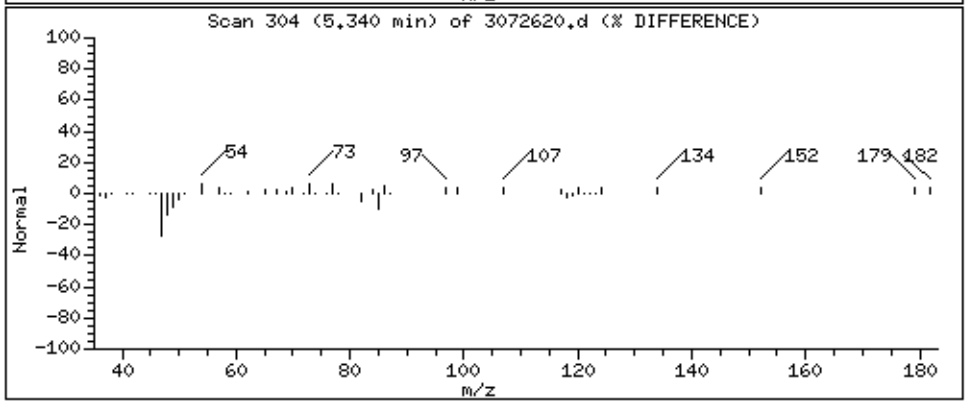












Data File: /chem/msd3.i/26JUL21.b/3072620.d

Page 5

Date : 26-JUL-2021 23:26

Client ID:

Instrument: msd3.i

Sample Info: 200mL 33637

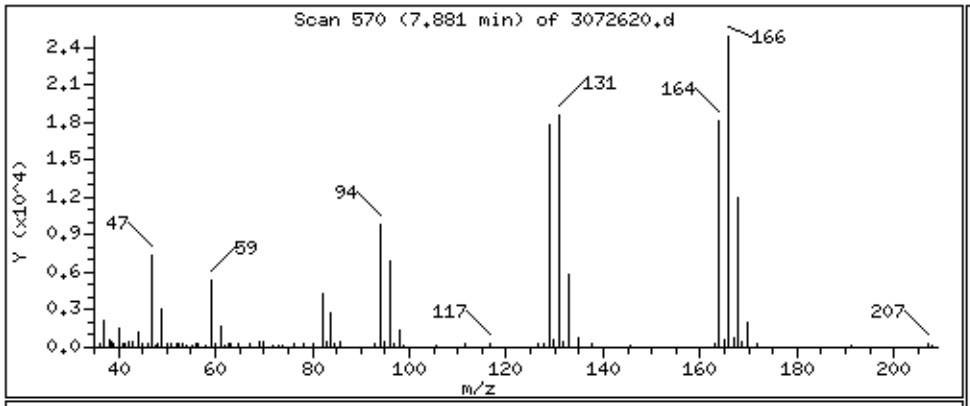
Operator: DF

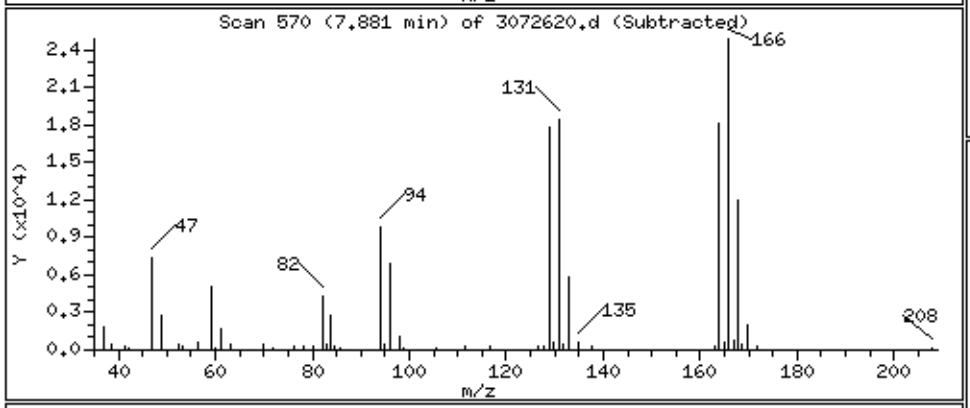
Column phase: RTX-624

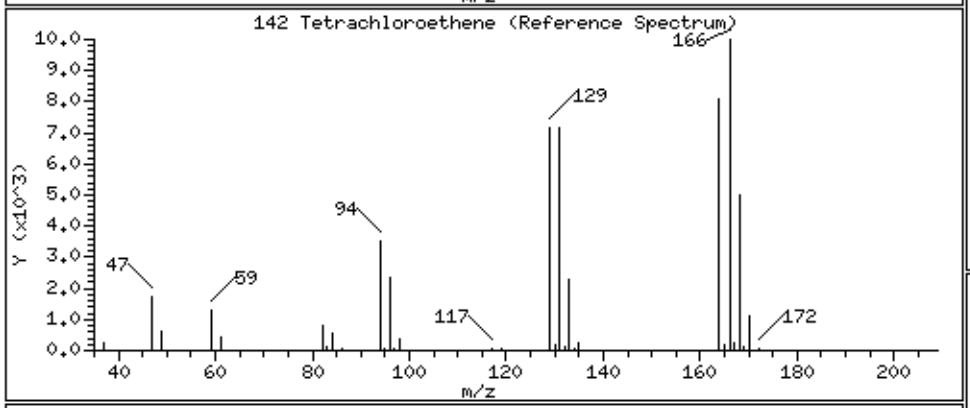
Column diameter: 0.25

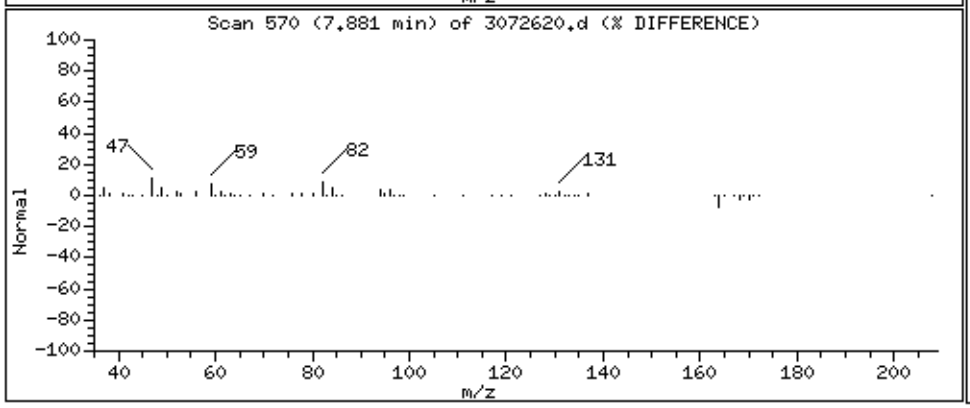
142 Tetrachloroethene

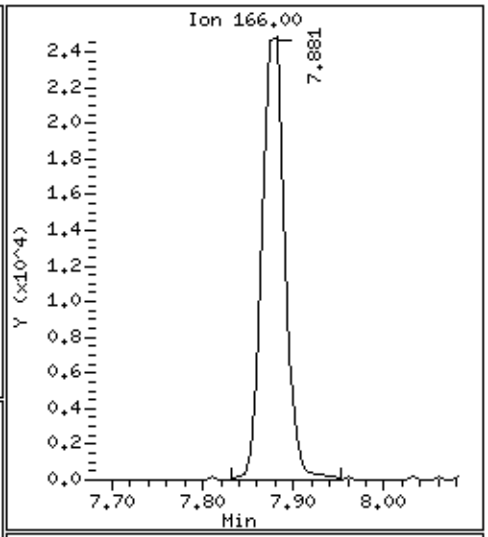
Concentration: 8.472 PPBV

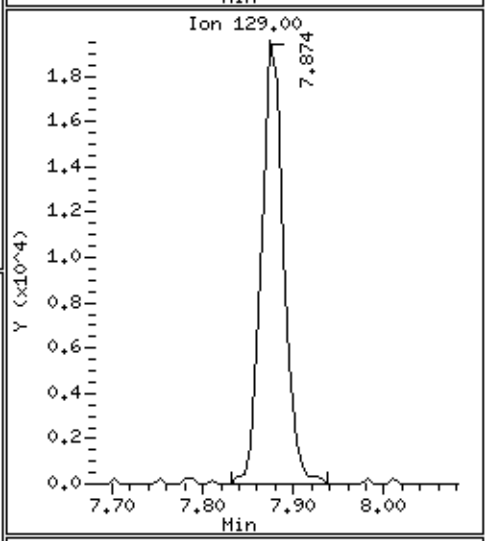


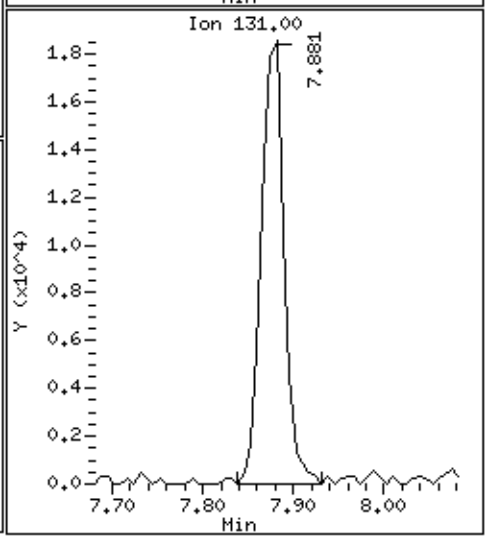












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Client Sample ID: SG-VW34A-02

Lab ID#: 2107284-13A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3072621**	**Date of Collection: 7/14/21 1:30:00 PM**	
Dil. Factor:	**2.26**	**Date of Analysis: 7/26/21 11:55 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1,2-Tetrachloroethane	4.5	Not Detected	31	Not Detected
1,1,1-Trichloroethane	1.1	Not Detected	6.2	Not Detected
1,1,2,2-Tetrachloroethane	1.1	Not Detected	7.8	Not Detected
1,1,2-Trichloroethane	1.1	Not Detected	6.2	Not Detected
1,1-Dichloroethane	1.1	Not Detected	4.6	Not Detected
1,1-Dichloroethene	1.1	Not Detected	4.5	Not Detected
1,1-Difluoroethane	4.5	Not Detected	12	Not Detected
1,2,3-Trichloropropane	4.5	Not Detected	27	Not Detected
1,2,4-Trichlorobenzene	4.5	Not Detected	34	Not Detected
1,2,4-Trimethylbenzene	1.1	Not Detected	5.6	Not Detected
1,2-Dibromo-3-chloropropane	4.5	Not Detected	44	Not Detected
1,2-Dibromoethane (EDB)	1.1	Not Detected	8.7	Not Detected
1,2-Dichlorobenzene	1.1	Not Detected	6.8	Not Detected
1,2-Dichloroethane	1.1	Not Detected	4.6	Not Detected
1,2-Dichloropropane	1.1	Not Detected	5.2	Not Detected
1,3,5-Trimethylbenzene	1.1	Not Detected	5.6	Not Detected
1,3-Butadiene	1.1	Not Detected	2.5	Not Detected
1,3-Dichlorobenzene	1.1	Not Detected	6.8	Not Detected
1,4-Dichlorobenzene	1.1	Not Detected	6.8	Not Detected
1,4-Dioxane	4.5	Not Detected	16	Not Detected
2,2,4-Trimethylpentane	1.1	Not Detected	5.3	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.5	Not Detected	13	Not Detected
2-Hexanone	4.5	Not Detected	18	Not Detected
2-Propanol	4.5	Not Detected	11	Not Detected
3-Chloropropene	4.5	Not Detected	14	Not Detected
4-Ethyltoluene	1.1	Not Detected	5.6	Not Detected
4-Methyl-2-pentanone	1.1	Not Detected	4.6	Not Detected
Acetone	11	Not Detected	27	Not Detected
Acrolein	4.5	Not Detected	10	Not Detected
Acrylonitrile	4.5	Not Detected	9.8	Not Detected
alpha-Chlorotoluene	1.1	Not Detected	5.8	Not Detected
Benzene	1.1	Not Detected	3.6	Not Detected
Bromodichloromethane	1.1	Not Detected	7.6	Not Detected
Bromoform	1.1	Not Detected	12	Not Detected
Bromomethane	11	Not Detected	44	Not Detected
Carbon Disulfide	4.5	Not Detected	14	Not Detected
Carbon Tetrachloride	1.1	Not Detected	7.1	Not Detected
Chlorobenzene	1.1	Not Detected	5.2	Not Detected
Chloroethane	4.5	Not Detected	12	Not Detected
Chloroform	1.1	Not Detected	5.5	Not Detected
Chloromethane	11	Not Detected	23	Not Detected
cis-1,2-Dichloroethene	1.1	Not Detected	4.5	Not Detected

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Client Sample ID: SG-VW34A-02

Lab ID#: 2107284-13A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3072621**	**Date of Collection: 7/14/21 1:30:00 PM**	
Dil. Factor:	**2.26**	**Date of Analysis: 7/26/21 11:55 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,3-Dichloropropene	1.1	Not Detected	5.1	Not Detected
Cumene	1.1	Not Detected	5.6	Not Detected
Cyclohexane	1.1	Not Detected	3.9	Not Detected
Dibromochloromethane	1.1	Not Detected	9.6	Not Detected
Dibromomethane	4.5	Not Detected	32	Not Detected
Ethanol	11	Not Detected	21	Not Detected
Ethyl Acetate	4.5	Not Detected	16	Not Detected
Ethyl Benzene	1.1	Not Detected	4.9	Not Detected
Ethyl-tert-butyl ether	4.5	Not Detected	19	Not Detected
Freon 11	1.1	Not Detected	6.3	Not Detected
Freon 12	1.1	Not Detected	5.6	Not Detected
Freon 113	1.1	Not Detected	8.7	Not Detected
Freon 114	1.1	Not Detected	7.9	Not Detected
Freon 134a	4.5	Not Detected	19	Not Detected
Heptane	1.1	Not Detected	4.6	Not Detected
Hexachlorobutadiene	4.5	Not Detected	48	Not Detected
Hexachloroethane	4.5	Not Detected	44	Not Detected
Hexane	1.1	Not Detected	4.0	Not Detected
Iodomethane	11	Not Detected	66	Not Detected
Isopropyl ether	4.5	Not Detected	19	Not Detected
m,p-Xylene	1.1	Not Detected	4.9	Not Detected
Methyl tert-butyl ether	4.5	Not Detected	16	Not Detected
Methylene Chloride	11	Not Detected	39	Not Detected
Naphthalene	2.3	Not Detected	12	Not Detected
o-Xylene	1.1	Not Detected	4.9	Not Detected
Propylbenzene	1.1	Not Detected	5.6	Not Detected
Propylene	4.5	Not Detected	7.8	Not Detected
Styrene	1.1	Not Detected	4.8	Not Detected
tert-Amyl methyl ether	4.5	Not Detected	19	Not Detected
tert-Butyl alcohol	4.5	Not Detected	14	Not Detected
Tetrachloroethene	1.1	3.1	7.7	21
Tetrahydrofuran	1.1	Not Detected	3.3	Not Detected
Toluene	1.1	Not Detected	4.2	Not Detected
TPH ref. to Gasoline (MW=100)	110	Not Detected	460	Not Detected
trans-1,2-Dichloroethene	1.1	Not Detected	4.5	Not Detected
trans-1,3-Dichloropropene	1.1	Not Detected	5.1	Not Detected
Trichloroethene	1.1	Not Detected	6.1	Not Detected
Vinyl Acetate	4.5	Not Detected	16	Not Detected
Vinyl Bromide	4.5	Not Detected	20	Not Detected
Vinyl Chloride	1.1	Not Detected	2.9	Not Detected

Container Type: 1 Liter Summa Canister

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Client Sample ID: SG-VW34A-02

Lab ID#: 2107284-13A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3072621**	**Date of Collection: 7/14/21 1:30:00 PM**	
Dil. Factor:	**2.26**	**Date of Analysis: 7/26/21 11:55 PM**	

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	97	70-130
4-Bromofluorobenzene	88	70-130

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EPA TO-15/MODIFIED TO14A

Data file : /chem/msd3.i/26JUL21.b/3072621.d
Lab Smp Id: 2107284-13A
Inj Date : 26-JUL-2021 23:55
Operator : DF Inst ID: msd3.i
Smp Info : 200mL 1L2705
Misc Info : 7.8 Hg->9.9 psi
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msd3.i/26JUL21.b/321q0622a.m
Meth Date : 28-Jul-2021 12:16 uexa Quant Type: ISTD
Cal Date : 23-JUN-2021 00:09 Cal File: 3062223.d
Als bottle: 4
Dil Factor: 2.26000
Integrator: HP RTE Compound Sublist: AEC25677.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE		(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 90 Bromochloromethane						CAS #: 74-97-5		
5.284	5.284 (1.000)	130	213616	25.0000			80.00- 120.00	100.00
5.284	5.284 (1.000)	128	169362				48.46- 108.46	79.28
5.284	5.284 (1.000)	49	299952				120.39- 180.39	140.42
* 108 1,4-Difluorobenzene						CAS #: 540-36-3		
6.180	6.166 (1.000)	114	724580	25.0000			80.00- 120.00	100.00
6.180	6.166 (1.000)	88	106696				0.00- 45.52	14.73
* 153 Chlorobenzene-d5						CAS #: 3114-55-4		
8.619	8.612 (1.000)	117	671260	25.0000			80.00- 120.00	100.00
8.619	8.612 (1.000)	82	350406				25.46- 85.46	52.20
$ 104 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
5.816	5.816 (1.101)	65	285216	24.2623	24.262		80.00- 120.00	100.00
5.816	5.816 (1.101)	67	141690				21.66- 81.66	49.68
$ 134 Toluene-d8						CAS #: 2037-26-5		
7.387	7.387 (1.195)	98	749450	25.1121	25.112		80.00- 120.00	100.00
7.387	7.387 (1.195)	70	85151				0.00- 41.47	11.36

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 134 Toluene-d8 (continued)							
7.387	7.387 (1.195)	100	496596			36.47- 96.47	66.26
$ 170 4-Bromofluorobenzene					CAS #: 460-00-4		
9.601	9.601 (1.114)	174	390475	21.9922	21.992	80.00- 120.00	100.00
9.601	9.601 (1.114)	95	439842			93.06- 153.06	112.64
9.601	9.601 (1.114)	176	357670			62.87- 122.87	91.60
142 Tetrachloroethene					CAS #: 127-18-4		
7.882	7.881 (0.914)	166	14360	1.36553	3.086	80.00- 120.00	100.00
7.882	7.881 (0.914)	129	10917			48.71- 108.71	76.03
7.882	7.881 (0.914)	131	11922			46.55- 106.55	83.02

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd3.i
Lab File ID: 3072621.d
Lab Smp Id: 2107284-13A
Analysis Type: VOA
Quant Type: ISTD
Operator: DF
Method File: /chem/msd3.i/26JUL21.b/321q0622a.m
Misc Info: 7.8 Hg->9.9 psi

Calibration Date: 26-JUL-2021
Calibration Time: 10:10
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	263983	158390	369576	213616	-19.08
108 1,4-Difluorobenze	833448	500069	1166827	724580	-13.06
153 Chlorobenzene-d5	741338	444803	1037873	671260	-9.45

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.28	4.95	5.61	5.28	0.00
108 1,4-Difluorobenze	6.17	5.84	6.50	6.18	0.23
153 Chlorobenzene-d5	8.61	8.28	8.94	8.62	0.08

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 28-Jul-2021 13:44

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RECOVERY REPORT

Client Name: Client SDG: 26JUL21
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 2107284-13A
Level: LOW Operator: DF
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT20_new.spk Quant Type: ISTD
Sublist File: AEC25677.sub
Method File: /chem/msd3.i/26JUL21.b/321q0622a.m
Misc Info: 7.8 Hg->9.9 psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 104 1,2-Dichloroethan	25.000	24.262	97.05	70-130
$ 134 Toluene-d8	25.000	25.112	100.45	70-130
$ 170 4-Bromofluorobenz	25.000	21.992	87.97	70-130

Data File: /chem/msd3.i/26JUL21.b/3072621.d

Date : 26-JUL-2021 23:55

Client ID:

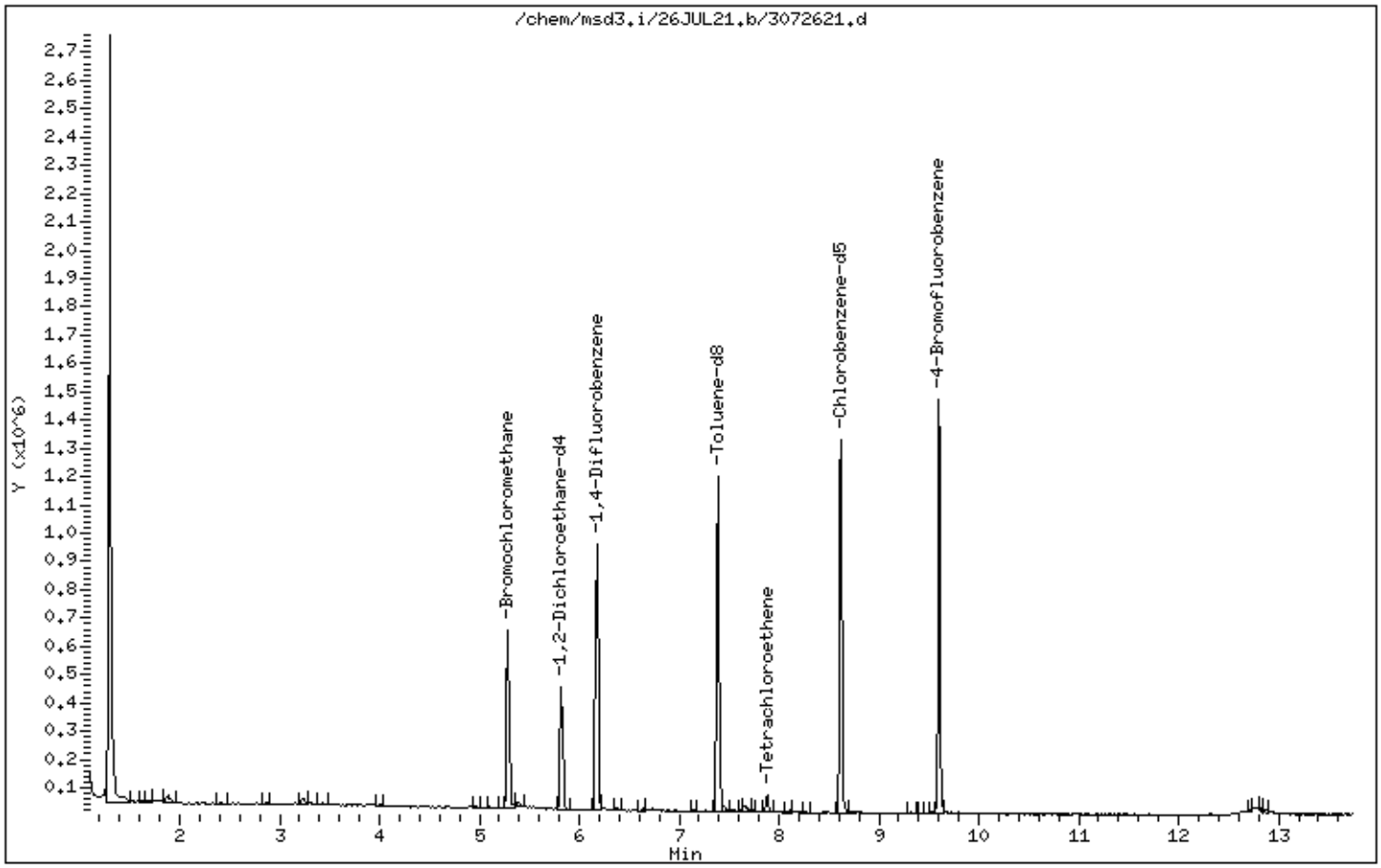
Instrument: msd3.i

Sample Info: 200mL 1L2705

Operator: DF

Column phase: RTX-624

Column diameter: 0.25



Data File: /chem/msd3.i/26JUL21.b/3072621.d

Page 2

Date : 26-JUL-2021 23:55

Client ID:

Instrument: msd3.i

Sample Info: 200mL 1L2705

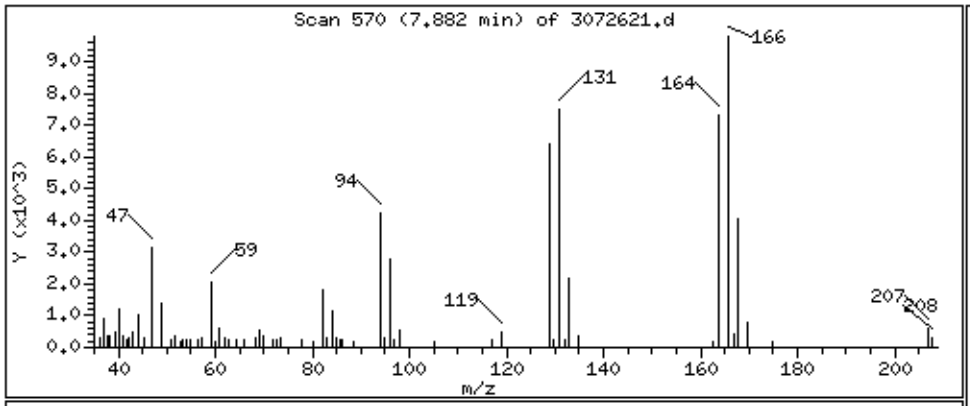
Operator: DF

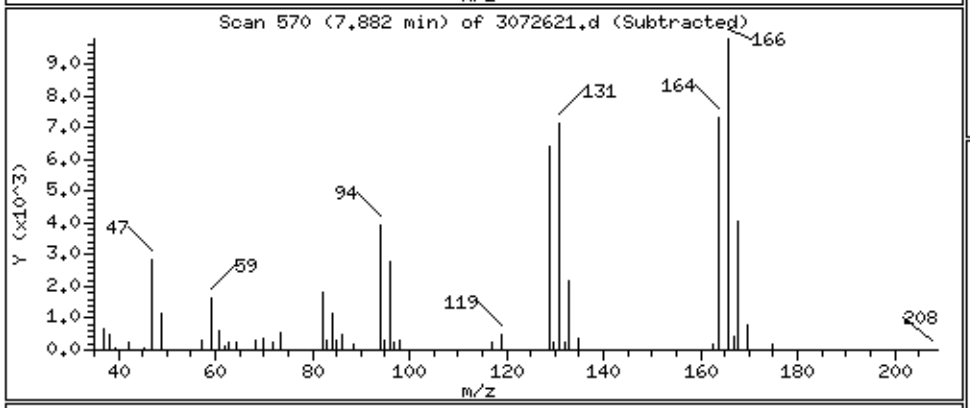
Column phase: RTX-624

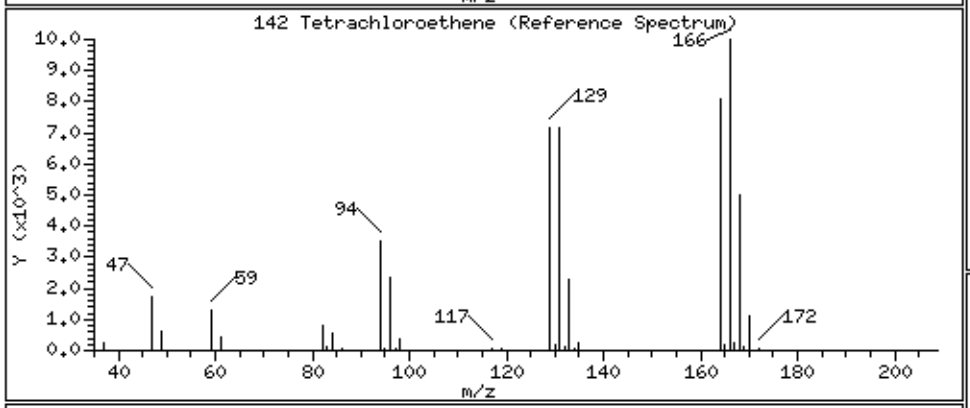
Column diameter: 0.25

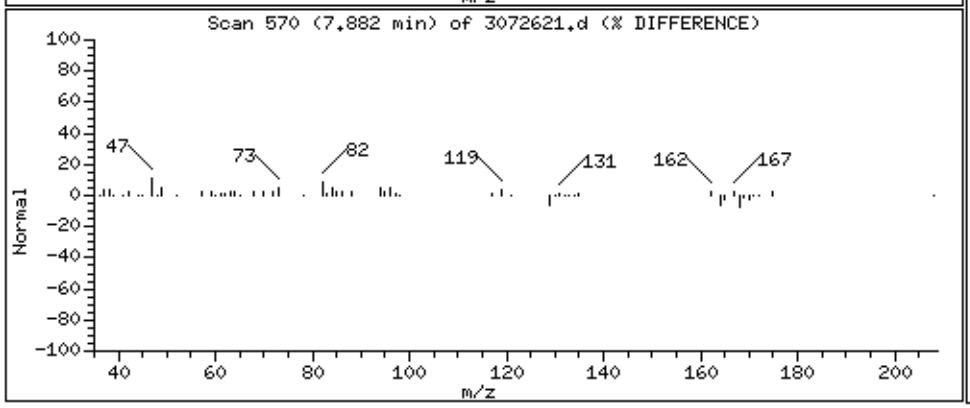
142 Tetrachloroethene

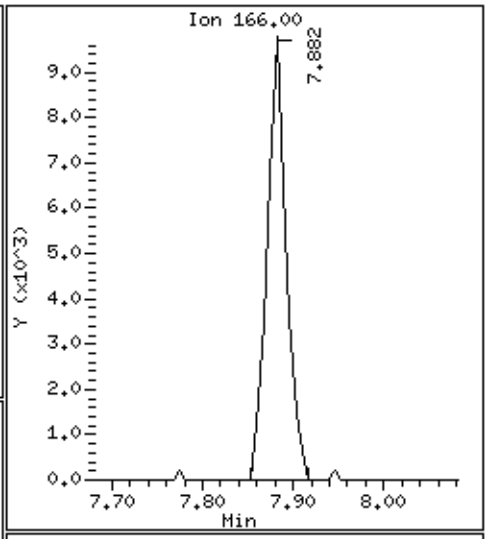
Concentration: 3.086 PPBV

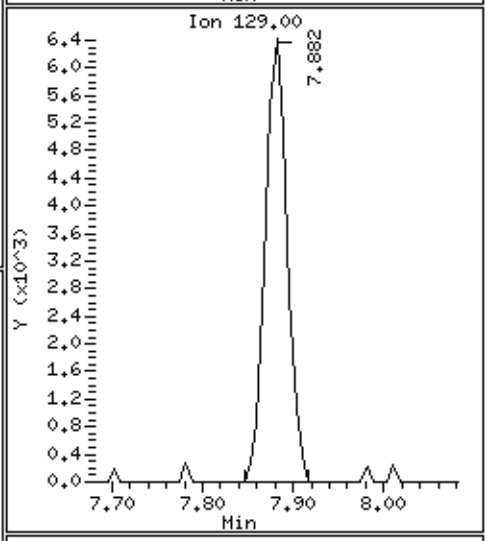


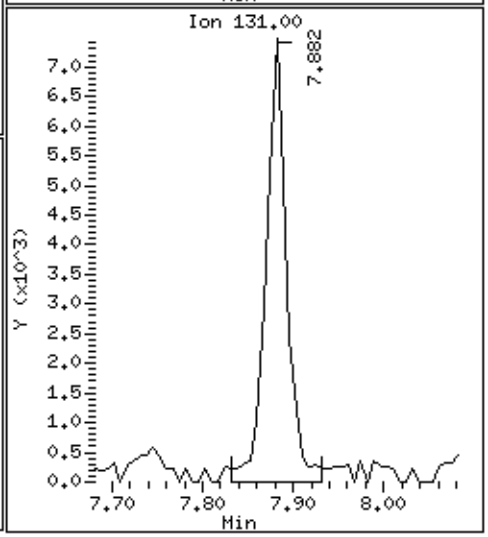












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Client Sample ID: SG-VW34A-03

Lab ID#: 2107284-14A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3072622**	**Date of Collection:**	**7/14/21 1:30:00 PM**
Dil. Factor:	**2.32**	**Date of Analysis:**	**7/27/21 12:24 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1,2-Tetrachloroethane	4.6	Not Detected	32	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.3	Not Detected
1,1,2,2-Tetrachloroethane	1.2	Not Detected	8.0	Not Detected
1,1,2-Trichloroethane	1.2	Not Detected	6.3	Not Detected
1,1-Dichloroethane	1.2	Not Detected	4.7	Not Detected
1,1-Dichloroethene	1.2	Not Detected	4.6	Not Detected
1,1-Difluoroethane	4.6	Not Detected	12	Not Detected
1,2,3-Trichloropropane	4.6	Not Detected	28	Not Detected
1,2,4-Trichlorobenzene	4.6	Not Detected	34	Not Detected
1,2,4-Trimethylbenzene	1.2	Not Detected	5.7	Not Detected
1,2-Dibromo-3-chloropropane	4.6	Not Detected	45	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	8.9	Not Detected
1,2-Dichlorobenzene	1.2	Not Detected	7.0	Not Detected
1,2-Dichloroethane	1.2	Not Detected	4.7	Not Detected
1,2-Dichloropropane	1.2	Not Detected	5.4	Not Detected
1,3,5-Trimethylbenzene	1.2	Not Detected	5.7	Not Detected
1,3-Butadiene	1.2	Not Detected	2.6	Not Detected
1,3-Dichlorobenzene	1.2	Not Detected	7.0	Not Detected
1,4-Dichlorobenzene	1.2	Not Detected	7.0	Not Detected
1,4-Dioxane	4.6	Not Detected	17	Not Detected
2,2,4-Trimethylpentane	1.2	Not Detected	5.4	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.6	Not Detected	14	Not Detected
2-Hexanone	4.6	Not Detected	19	Not Detected
2-Propanol	4.6	Not Detected	11	Not Detected
3-Chloropropene	4.6	Not Detected	14	Not Detected
4-Ethyltoluene	1.2	Not Detected	5.7	Not Detected
4-Methyl-2-pentanone	1.2	Not Detected	4.8	Not Detected
Acetone	12	Not Detected	28	Not Detected
Acrolein	4.6	Not Detected	11	Not Detected
Acrylonitrile	4.6	Not Detected	10	Not Detected
alpha-Chlorotoluene	1.2	Not Detected	6.0	Not Detected
Benzene	1.2	Not Detected	3.7	Not Detected
Bromodichloromethane	1.2	Not Detected	7.8	Not Detected
Bromoform	1.2	Not Detected	12	Not Detected
Bromomethane	12	Not Detected	45	Not Detected
Carbon Disulfide	4.6	Not Detected	14	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.3	Not Detected
Chlorobenzene	1.2	Not Detected	5.3	Not Detected
Chloroethane	4.6	Not Detected	12	Not Detected
Chloroform	1.2	Not Detected	5.7	Not Detected
Chloromethane	12	Not Detected	24	Not Detected
cis-1,2-Dichloroethene	1.2	Not Detected	4.6	Not Detected

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Client Sample ID: SG-VW34A-03

Lab ID#: 2107284-14A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3072622**	**Date of Collection:**	**7/14/21 1:30:00 PM**
Dil. Factor:	**2.32**	**Date of Analysis:**	**7/27/21 12:24 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,3-Dichloropropene	1.2	Not Detected	5.3	Not Detected
Cumene	1.2	Not Detected	5.7	Not Detected
Cyclohexane	1.2	Not Detected	4.0	Not Detected
Dibromochloromethane	1.2	Not Detected	9.9	Not Detected
Dibromomethane	4.6	Not Detected	33	Not Detected
Ethanol	12	Not Detected	22	Not Detected
Ethyl Acetate	4.6	Not Detected	17	Not Detected
Ethyl Benzene	1.2	Not Detected	5.0	Not Detected
Ethyl-tert-butyl ether	4.6	Not Detected	19	Not Detected
Freon 11	1.2	Not Detected	6.5	Not Detected
Freon 12	1.2	Not Detected	5.7	Not Detected
Freon 113	1.2	Not Detected	8.9	Not Detected
Freon 114	1.2	Not Detected	8.1	Not Detected
Freon 134a	4.6	Not Detected	19	Not Detected
Heptane	1.2	Not Detected	4.8	Not Detected
Hexachlorobutadiene	4.6	Not Detected	49	Not Detected
Hexachloroethane	4.6	Not Detected	45	Not Detected
Hexane	1.2	Not Detected	4.1	Not Detected
Iodomethane	12	Not Detected	67	Not Detected
Isopropyl ether	4.6	Not Detected	19	Not Detected
m,p-Xylene	1.2	Not Detected	5.0	Not Detected
Methyl tert-butyl ether	4.6	Not Detected	17	Not Detected
Methylene Chloride	12	Not Detected	40	Not Detected
Naphthalene	2.3	Not Detected	12	Not Detected
o-Xylene	1.2	Not Detected	5.0	Not Detected
Propylbenzene	1.2	Not Detected	5.7	Not Detected
Propylene	4.6	Not Detected	8.0	Not Detected
Styrene	1.2	Not Detected	4.9	Not Detected
tert-Amyl methyl ether	4.6	Not Detected	19	Not Detected
tert-Butyl alcohol	4.6	Not Detected	14	Not Detected
Tetrachloroethene	1.2	3.1	7.9	21
Tetrahydrofuran	1.2	Not Detected	3.4	Not Detected
Toluene	1.2	Not Detected	4.4	Not Detected
TPH ref. to Gasoline (MW=100)	120	Not Detected	470	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.6	Not Detected
trans-1,3-Dichloropropene	1.2	Not Detected	5.3	Not Detected
Trichloroethene	1.2	Not Detected	6.2	Not Detected
Vinyl Acetate	4.6	Not Detected	16	Not Detected
Vinyl Bromide	4.6	Not Detected	20	Not Detected
Vinyl Chloride	1.2	Not Detected	3.0	Not Detected

Container Type: 1 Liter Summa Canister

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Client Sample ID: SG-VW34A-03

Lab ID#: 2107284-14A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3072622**	**Date of Collection:**	**7/14/21 1:30:00 PM**
Dil. Factor:	**2.32**	**Date of Analysis:**	**7/27/21 12:24 AM**

Surrogates	%Recovery	Method Limits
Toluene-d8	96	70-130
1,2-Dichloroethane-d4	95	70-130
4-Bromofluorobenzene	93	70-130

US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msd3.i/26JUL21.b/3072622.d
Lab Smp Id: 2107284-14A
Inj Date : 27-JUL-2021 00:24
Operator : DF Inst ID: msd3.i
Smp Info : 200mL N3851
Misc Info : 8.4 Hg->9.9 psi
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msd3.i/26JUL21.b/321q0622a.m
Meth Date : 28-Jul-2021 12:16 uexa Quant Type: ISTD
Cal Date : 23-JUN-2021 00:09 Cal File: 3062223.d
Als bottle: 5
Dil Factor: 2.32000
Integrator: HP RTE Compound Sublist: AEC25677.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE		(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 90 Bromochloromethane						CAS #: 74-97-5		
5.284	5.284 (1.000)	130	226058	25.0000			80.00- 120.00	100.00
5.284	5.284 (1.000)	128	177906				48.46- 108.46	78.70
5.284	5.284 (1.000)	49	324037				120.39- 180.39	143.34
* 108 1,4-Difluorobenzene						CAS #: 540-36-3		
6.180	6.166 (1.000)	114	718680	25.0000			80.00- 120.00	100.00
6.180	6.166 (1.000)	88	104016				0.00- 45.52	14.47
* 153 Chlorobenzene-d5						CAS #: 3114-55-4		
8.619	8.612 (1.000)	117	659768	25.0000			80.00- 120.00	100.00
8.619	8.612 (1.000)	82	351119				25.46- 85.46	53.22
$ 104 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
5.816	5.816 (1.101)	65	296487	23.8330	23.833		80.00- 120.00	100.00
5.816	5.816 (1.101)	67	144071				21.66- 81.66	48.59
$ 134 Toluene-d8						CAS #: 2037-26-5		
7.387	7.387 (1.195)	98	712472	24.0690	24.069		80.00- 120.00	100.00
7.387	7.387 (1.195)	70	80210				0.00- 41.47	11.26

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 134 Toluene-d8 (continued)							
7.387	7.387 (1.195)	100	471305			36.47- 96.47	66.15
$ 170 4-Bromofluorobenzene					CAS #: 460-00-4		
9.608	9.601 (1.115)	174	407775	23.3666	23.367	80.00- 120.00	100.00
9.601	9.601 (1.114)	95	461112			93.06- 153.06	113.08
9.608	9.601 (1.115)	176	375142			62.87- 122.87	92.00
142 Tetrachloroethene					CAS #: 127-18-4		
7.881	7.881 (0.914)	166	13680	1.32353	3.070	80.00- 120.00	100.00
7.881	7.881 (0.914)	129	11542			48.71- 108.71	84.37
7.881	7.881 (0.914)	131	11208			46.55- 106.55	81.93

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd3.i
Lab File ID: 3072622.d
Lab Smp Id: 2107284-14A
Analysis Type: VOA
Quant Type: ISTD
Operator: DF
Method File: /chem/msd3.i/26JUL21.b/321q0622a.m
Misc Info: 8.4 Hg->9.9 psi

Calibration Date: 26-JUL-2021
Calibration Time: 10:10
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	263983	158390	369576	226058	-14.37
108 1,4-Difluorobenze	833448	500069	1166827	718680	-13.77
153 Chlorobenzene-d5	741338	444803	1037873	659768	-11.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.28	4.95	5.61	5.28	-0.00
108 1,4-Difluorobenze	6.17	5.84	6.50	6.18	0.23
153 Chlorobenzene-d5	8.61	8.28	8.94	8.62	0.08

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 28-Jul-2021 13:44

US32TAR1

RECOVERY REPORT

Client Name: Client SDG: 26JUL21
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 2107284-14A
Level: LOW Operator: DF
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT20_new.spk Quant Type: ISTD
Sublist File: AEC25677.sub
Method File: /chem/msd3.i/26JUL21.b/321q0622a.m
Misc Info: 8.4 Hg->9.9 psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 104 1,2-Dichloroethan	25.000	23.833	95.33	70-130
$ 134 Toluene-d8	25.000	24.069	96.28	70-130
$ 170 4-Bromofluorobenz	25.000	23.367	93.47	70-130

Data File: /chem/msd3.i/26JUL21.b/3072622.d

Date : 27-JUL-2021 00:24

Client ID:

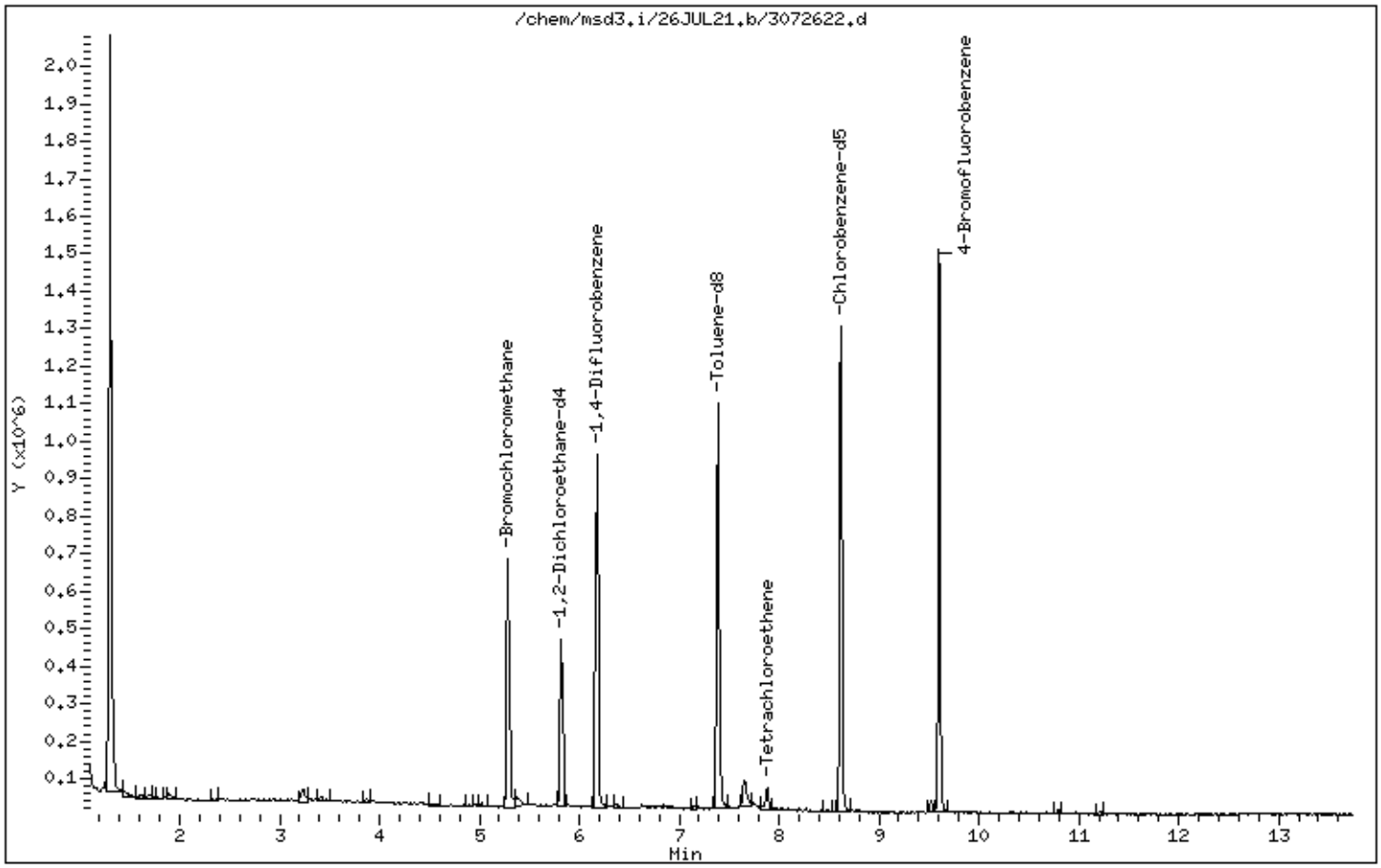
Instrument: msd3.i

Sample Info: 200mL N3851

Operator: DF

Column phase: RTX-624

Column diameter: 0.25



Data File: /chem/msd3.i/26JUL21.b/3072622.d

Date : 27-JUL-2021 00:24

Client ID:

Instrument: msd3.i

Sample Info: 200mL N3851

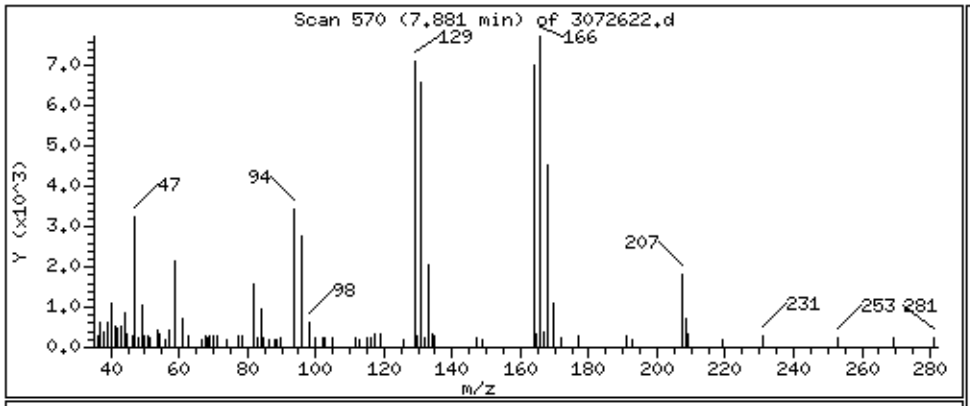
Operator: DF

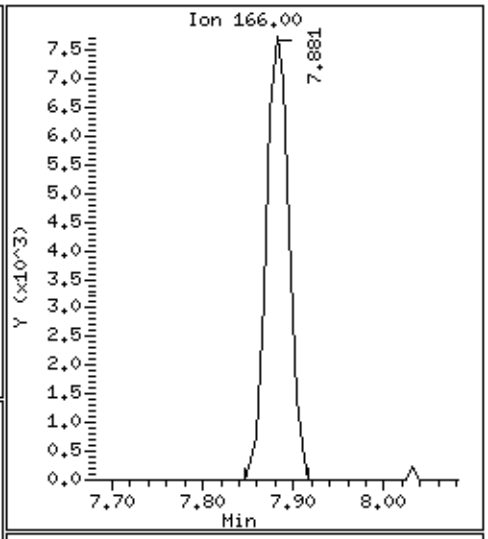
Column phase: RTX-624

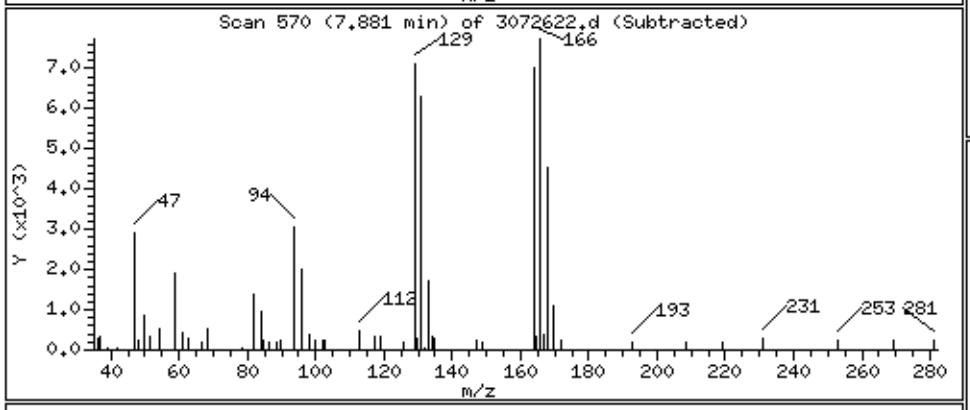
Column diameter: 0.25

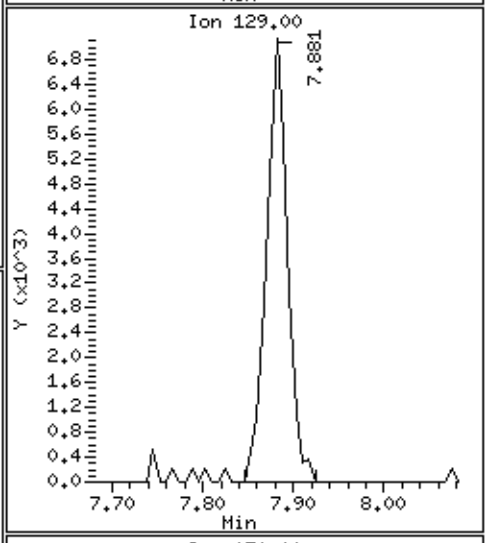
142 Tetrachloroethene

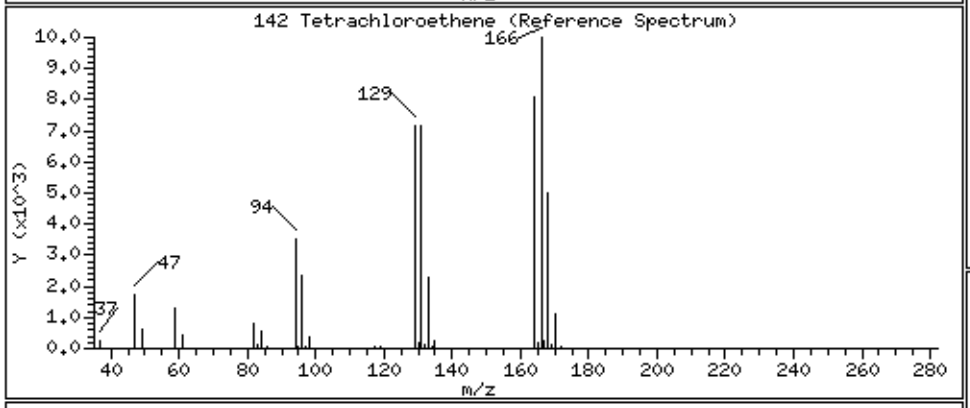
Concentration: 3.070 PPBV

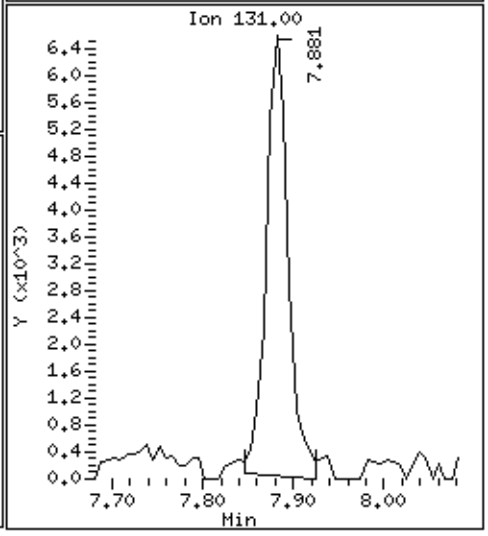


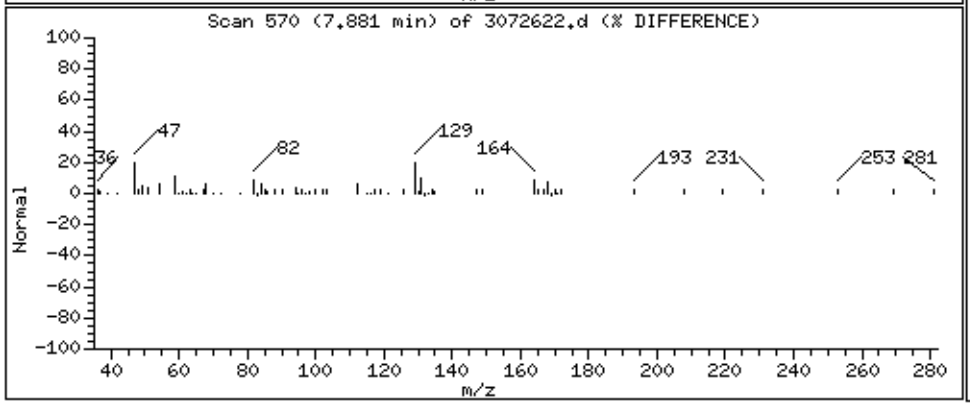












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Client Sample ID: SG-VW34B-02

Lab ID#: 2107284-15A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3072623**	**Date of Collection:**	**7/14/21 2:11:00 PM**
Dil. Factor:	**2.40**	**Date of Analysis:**	**7/27/21 12:53 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1,2-Tetrachloroethane	4.8	Not Detected	33	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.5	Not Detected
1,1,2,2-Tetrachloroethane	1.2	Not Detected	8.2	Not Detected
1,1,2-Trichloroethane	1.2	Not Detected	6.5	Not Detected
1,1-Dichloroethane	1.2	Not Detected	4.8	Not Detected
1,1-Dichloroethene	1.2	Not Detected	4.8	Not Detected
1,1-Difluoroethane	4.8	Not Detected	13	Not Detected
1,2,3-Trichloropropane	4.8	Not Detected	29	Not Detected
1,2,4-Trichlorobenzene	4.8	Not Detected	36	Not Detected
1,2,4-Trimethylbenzene	1.2	Not Detected	5.9	Not Detected
1,2-Dibromo-3-chloropropane	4.8	Not Detected	46	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.2	Not Detected
1,2-Dichlorobenzene	1.2	Not Detected	7.2	Not Detected
1,2-Dichloroethane	1.2	Not Detected	4.8	Not Detected
1,2-Dichloropropane	1.2	Not Detected	5.5	Not Detected
1,3,5-Trimethylbenzene	1.2	Not Detected	5.9	Not Detected
1,3-Butadiene	1.2	Not Detected	2.6	Not Detected
1,3-Dichlorobenzene	1.2	Not Detected	7.2	Not Detected
1,4-Dichlorobenzene	1.2	Not Detected	7.2	Not Detected
1,4-Dioxane	4.8	Not Detected	17	Not Detected
2,2,4-Trimethylpentane	1.2	Not Detected	5.6	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.8	Not Detected	14	Not Detected
2-Hexanone	4.8	Not Detected	20	Not Detected
2-Propanol	4.8	Not Detected	12	Not Detected
3-Chloropropene	4.8	Not Detected	15	Not Detected
4-Ethyltoluene	1.2	Not Detected	5.9	Not Detected
4-Methyl-2-pentanone	1.2	Not Detected	4.9	Not Detected
Acetone	12	Not Detected	28	Not Detected
Acrolein	4.8	Not Detected	11	Not Detected
Acrylonitrile	4.8	Not Detected	10	Not Detected
alpha-Chlorotoluene	1.2	Not Detected	6.2	Not Detected
Benzene	1.2	Not Detected	3.8	Not Detected
Bromodichloromethane	1.2	Not Detected	8.0	Not Detected
Bromoform	1.2	Not Detected	12	Not Detected
Bromomethane	12	Not Detected	47	Not Detected
Carbon Disulfide	4.8	Not Detected	15	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.6	Not Detected
Chlorobenzene	1.2	Not Detected	5.5	Not Detected
Chloroethane	4.8	Not Detected	13	Not Detected
Chloroform	1.2	Not Detected	5.8	Not Detected
Chloromethane	12	Not Detected	25	Not Detected
cis-1,2-Dichloroethene	1.2	Not Detected	4.8	Not Detected

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Client Sample ID: SG-VW34B-02

Lab ID#: 2107284-15A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3072623**	**Date of Collection:**	**7/14/21 2:11:00 PM**
Dil. Factor:	**2.40**	**Date of Analysis:**	**7/27/21 12:53 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,3-Dichloropropene	1.2	Not Detected	5.4	Not Detected
Cumene	1.2	Not Detected	5.9	Not Detected
Cyclohexane	1.2	Not Detected	4.1	Not Detected
Dibromochloromethane	1.2	Not Detected	10	Not Detected
Dibromomethane	4.8	Not Detected	34	Not Detected
Ethanol	12	Not Detected	23	Not Detected
Ethyl Acetate	4.8	Not Detected	17	Not Detected
Ethyl Benzene	1.2	Not Detected	5.2	Not Detected
Ethyl-tert-butyl ether	4.8	Not Detected	20	Not Detected
Freon 11	1.2	Not Detected	6.7	Not Detected
Freon 12	1.2	1.9	5.9	9.3
Freon 113	1.2	Not Detected	9.2	Not Detected
Freon 114	1.2	Not Detected	8.4	Not Detected
Freon 134a	4.8	Not Detected	20	Not Detected
Heptane	1.2	Not Detected	4.9	Not Detected
Hexachlorobutadiene	4.8	Not Detected	51	Not Detected
Hexachloroethane	4.8	Not Detected	46	Not Detected
Hexane	1.2	Not Detected	4.2	Not Detected
Iodomethane	12	Not Detected	70	Not Detected
Isopropyl ether	4.8	Not Detected	20	Not Detected
m,p-Xylene	1.2	Not Detected	5.2	Not Detected
Methyl tert-butyl ether	4.8	Not Detected	17	Not Detected
Methylene Chloride	12	Not Detected	42	Not Detected
Naphthalene	2.4	Not Detected	12	Not Detected
o-Xylene	1.2	Not Detected	5.2	Not Detected
Propylbenzene	1.2	Not Detected	5.9	Not Detected
Propylene	4.8	Not Detected	8.3	Not Detected
Styrene	1.2	Not Detected	5.1	Not Detected
tert-Amyl methyl ether	4.8	Not Detected	20	Not Detected
tert-Butyl alcohol	4.8	Not Detected	14	Not Detected
Tetrachloroethene	1.2	3.8	8.1	26
Tetrahydrofuran	1.2	Not Detected	3.5	Not Detected
Toluene	1.2	Not Detected	4.5	Not Detected
TPH ref. to Gasoline (MW=100)	120	Not Detected	490	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.8	Not Detected
trans-1,3-Dichloropropene	1.2	Not Detected	5.4	Not Detected
Trichloroethene	1.2	Not Detected	6.4	Not Detected
Vinyl Acetate	4.8	Not Detected	17	Not Detected
Vinyl Bromide	4.8	Not Detected	21	Not Detected
Vinyl Chloride	1.2	Not Detected	3.1	Not Detected

Container Type: 1 Liter Summa Canister

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Client Sample ID: SG-VW34B-02

Lab ID#: 2107284-15A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3072623**	**Date of Collection:**	**7/14/21 2:11:00 PM**
Dil. Factor:	**2.40**	**Date of Analysis:**	**7/27/21 12:53 AM**

Surrogates	%Recovery	Method Limits
Toluene-d8	94	70-130
1,2-Dichloroethane-d4	96	70-130
4-Bromofluorobenzene	94	70-130

US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msd3.i/26JUL21.b/3072623.d
Lab Smp Id: 2107284-15A
Inj Date : 27-JUL-2021 00:53
Operator : DF Inst ID: msd3.i
Smp Info : 200mL N2640
Misc Info : 9 Hg->10 psi
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msd3.i/26JUL21.b/321q0622a.m
Meth Date : 28-Jul-2021 12:16 uexa Quant Type: ISTD
Cal Date : 23-JUN-2021 00:09 Cal File: 3062223.d
Als bottle: 6
Dil Factor: 2.40000
Integrator: HP RTE Compound Sublist: AEC25677.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE		(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 90 Bromochloromethane						CAS #: 74-97-5		
5.284	5.284 (1.000)	130	292342	25.0000			80.00- 120.00	100.00
5.284	5.284 (1.000)	128	226202				48.46- 108.46	77.38
5.284	5.284 (1.000)	49	410988				120.39- 180.39	140.58
* 108 1,4-Difluorobenzene						CAS #: 540-36-3		
6.166	6.166 (1.000)	114	957918	25.0000			80.00- 120.00	100.00
6.166	6.166 (1.000)	88	137578				0.00- 45.52	14.36
* 153 Chlorobenzene-d5						CAS #: 3114-55-4		
8.612	8.612 (1.000)	117	911515	25.0000			80.00- 120.00	100.00
8.612	8.612 (1.000)	82	477076				25.46- 85.46	52.34
$ 104 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
5.816	5.816 (1.101)	65	388054	24.1209	24.121		80.00- 120.00	100.00
5.816	5.816 (1.101)	67	189170				21.66- 81.66	48.75
$ 134 Toluene-d8						CAS #: 2037-26-5		
7.387	7.387 (1.198)	98	925797	23.4646	23.465		80.00- 120.00	100.00
7.387	7.387 (1.198)	70	102885				0.00- 41.47	11.11

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 134 Toluene-d8 (continued)							
7.387	7.387 (1.198)	100	609656			36.47- 96.47	65.85
$ 170 4-Bromofluorobenzene					CAS #: 460-00-4		
9.601	9.601 (1.115)	174	564481	23.4127	23.413	80.00- 120.00	100.00
9.601	9.601 (1.115)	95	647716			93.06- 153.06	114.75
9.601	9.601 (1.115)	176	525686			62.87- 122.87	93.13
8 Freon 12					CAS #: 75-71-8		
1.465	1.465 (0.277)	85	15952	0.78331	1.880	80.00- 120.00	100.00
1.465	1.465 (0.277)	87	6056			2.63- 62.63	37.97
142 Tetrachloroethene					CAS #: 127-18-4		
7.881	7.881 (0.915)	166	22647	1.58593	3.806	80.00- 120.00	100.00
7.881	7.881 (0.915)	129	17018			48.71- 108.71	75.14
7.874	7.881 (0.914)	131	16957			46.55- 106.55	74.87

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd3.i
Lab File ID: 3072623.d
Lab Smp Id: 2107284-15A
Analysis Type: VOA
Quant Type: ISTD
Operator: DF
Method File: /chem/msd3.i/26JUL21.b/321q0622a.m
Misc Info: 9 Hg->10 psi

Calibration Date: 26-JUL-2021
Calibration Time: 10:10
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	263983	158390	369576	292342	10.74
108 1,4-Difluorobenze	833448	500069	1166827	957918	14.93
153 Chlorobenzene-d5	741338	444803	1037873	911515	22.96

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.28	4.95	5.61	5.28	0.00
108 1,4-Difluorobenze	6.17	5.84	6.50	6.17	0.00
153 Chlorobenzene-d5	8.61	8.28	8.94	8.61	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 28-Jul-2021 13:44

US32TAR1

RECOVERY REPORT

Client Name: Client SDG: 26JUL21
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 2107284-15A
Level: LOW Operator: DF
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT20_new.spk Quant Type: ISTD
Sublist File: AEC25677.sub
Method File: /chem/msd3.i/26JUL21.b/321q0622a.m
Misc Info: 9 Hg->10 psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 104 1,2-Dichloroethan	25.000	24.121	96.48	70-130
$ 134 Toluene-d8	25.000	23.465	93.86	70-130
$ 170 4-Bromofluorobenz	25.000	23.413	93.65	70-130

Data File: /chem/msd3.i/26JUL21.b/3072623.d

Date : 27-JUL-2021 00:53

Client ID:

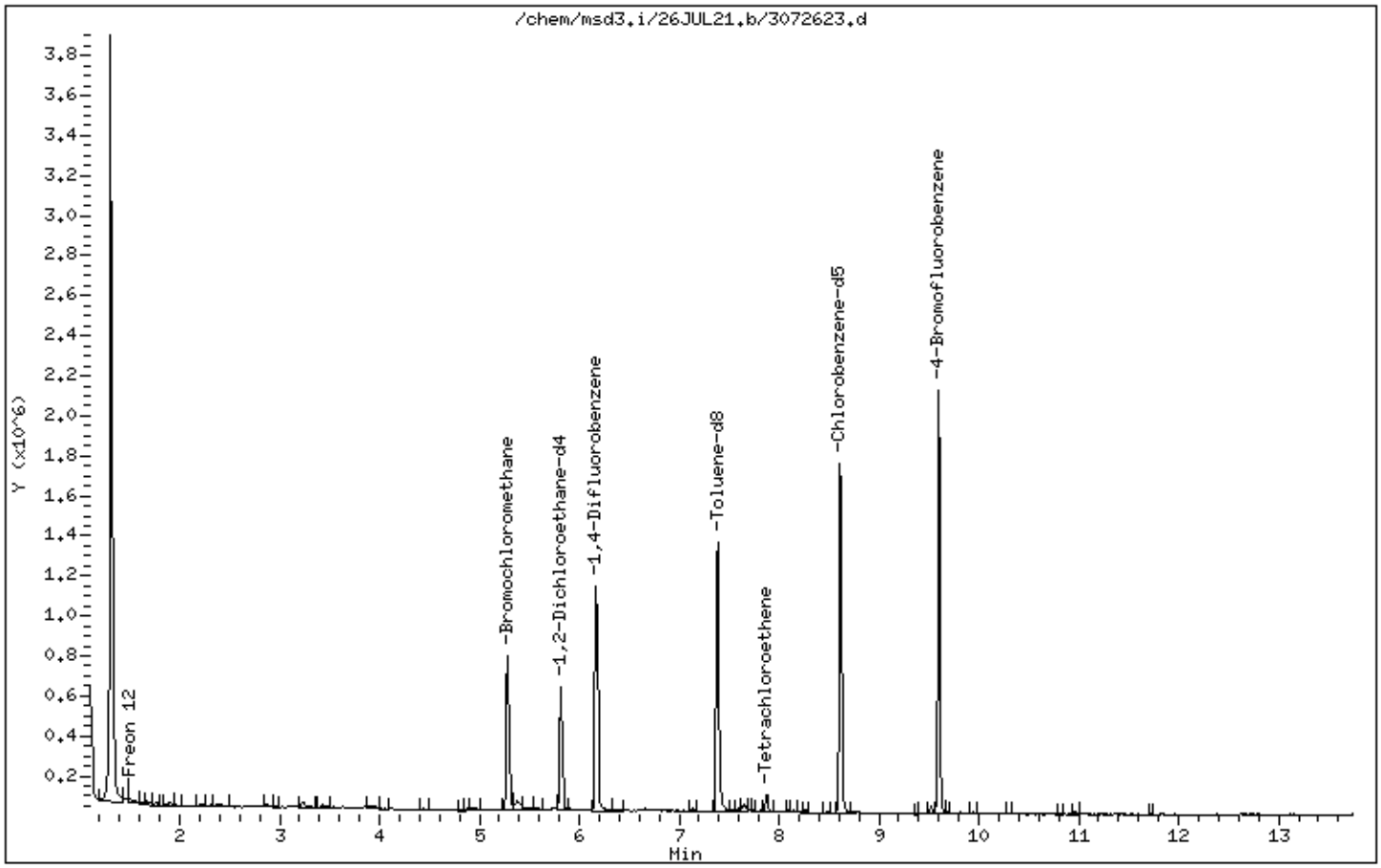
Instrument: msd3.i

Sample Info: 200mL N2640

Operator: DF

Column phase: RTX-624

Column diameter: 0.25



Data File: /chem/msd3.i/26JUL21.b/3072623.d

Date : 27-JUL-2021 00:53

Client ID:

Instrument: msd3.i

Sample Info: 200mL N2640

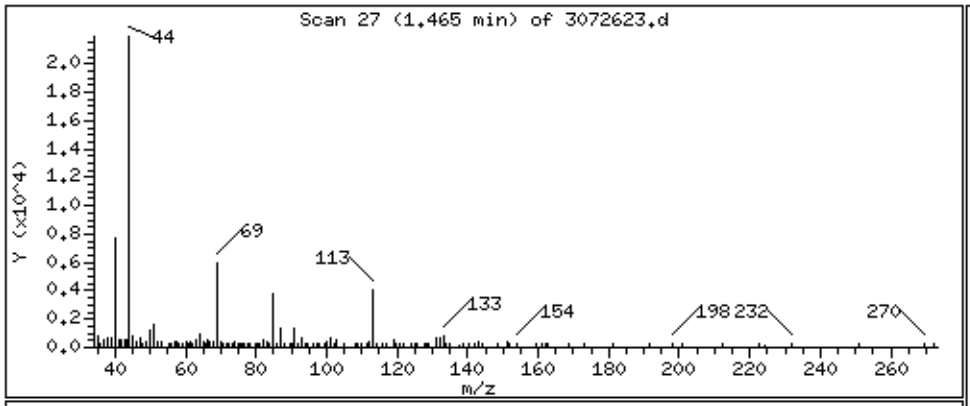
Operator: DF

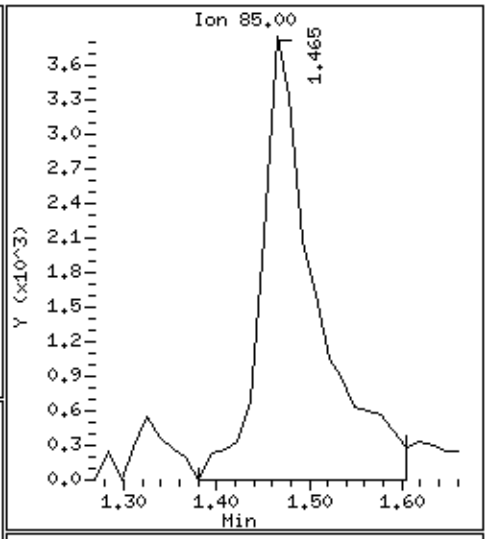
Column phase: RTX-624

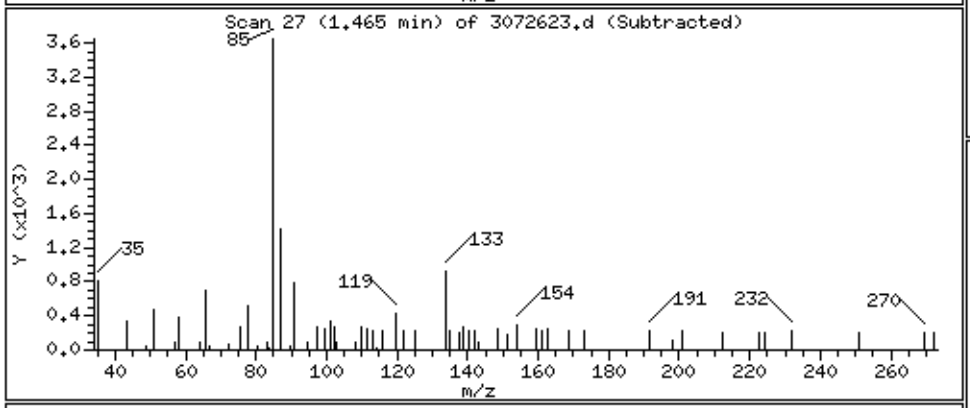
Column diameter: 0.25

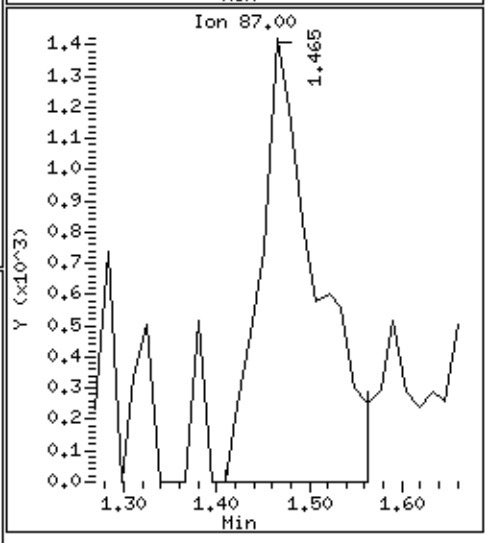
8 Freon 12

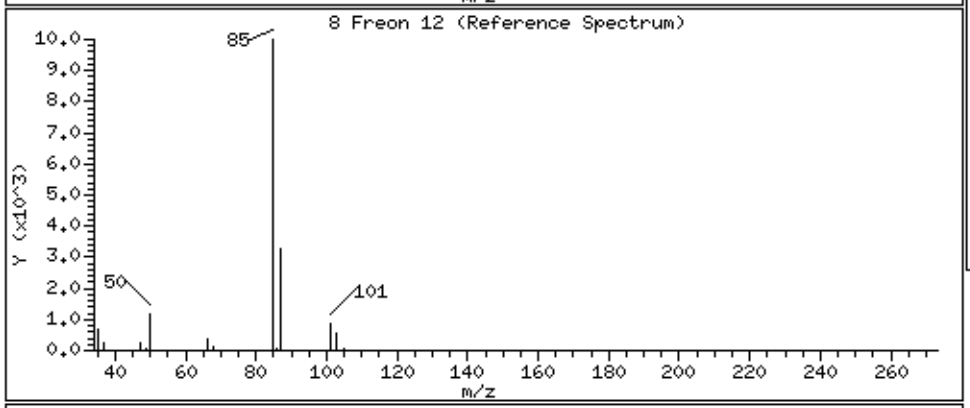
Concentration: 1.880 PPBV

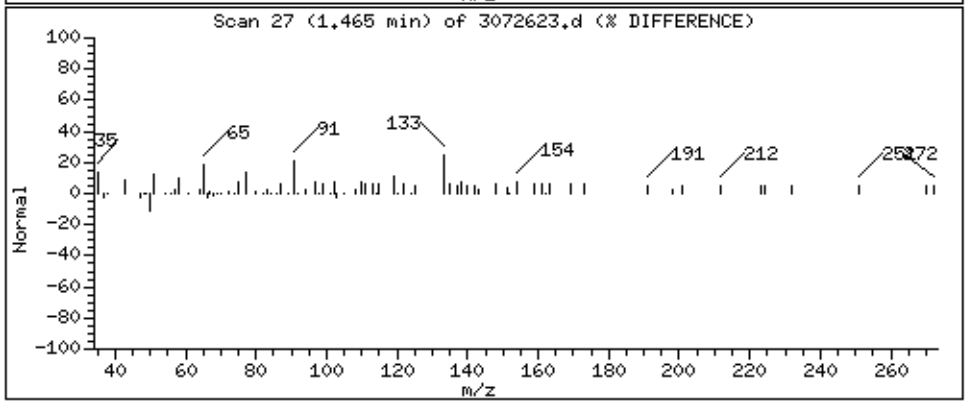












Data File: /chem/msd3.i/26JUL21.b/3072623.d

Date : 27-JUL-2021 00:53

Client ID:

Instrument: msd3.i

Sample Info: 200mL N2640

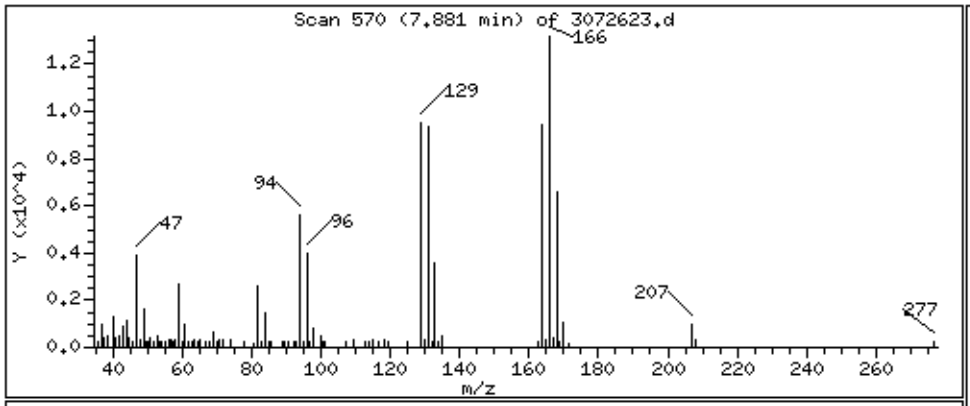
Operator: DF

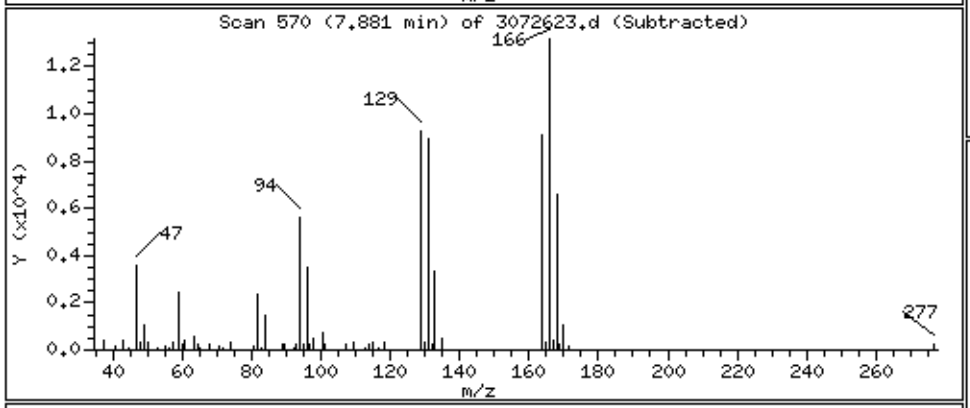
Column phase: RTX-624

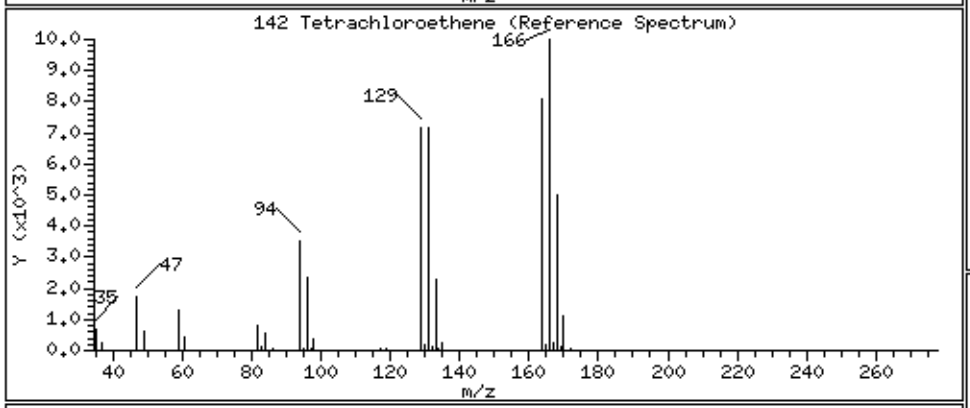
Column diameter: 0.25

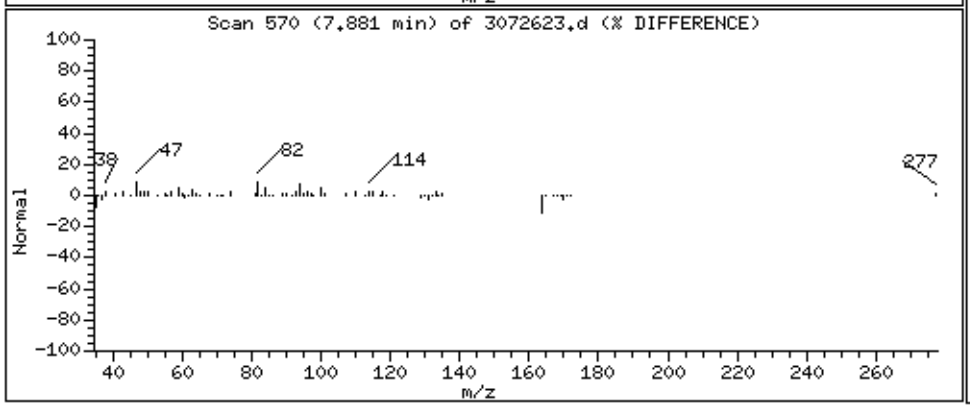
142 Tetrachloroethene

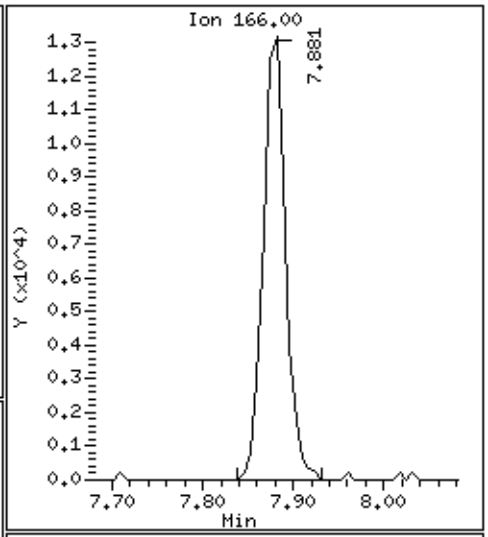
Concentration: 3.806 PPBV

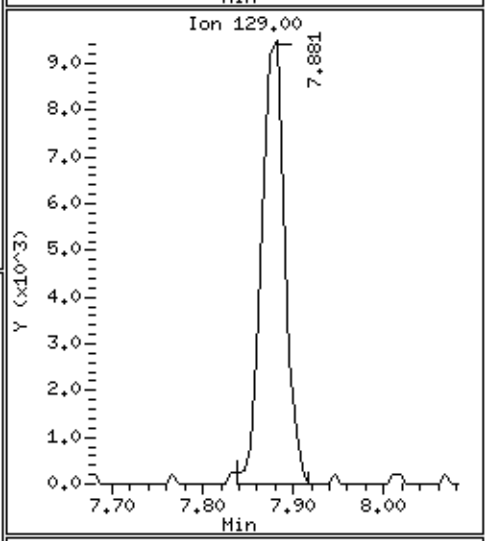


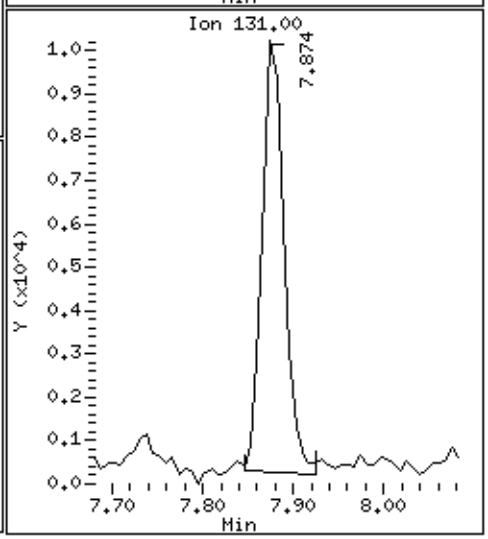












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Client Sample ID: SG-VW55B-02

Lab ID#: 2107284-16A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3072624**	**Date of Collection:**	**7/14/21 2:40:00 PM**
Dil. Factor:	**2.14**	**Date of Analysis:**	**7/27/21 01:22 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1,2-Tetrachloroethane	4.3	Not Detected	29	Not Detected
1,1,1-Trichloroethane	1.1	Not Detected	5.8	Not Detected
1,1,2,2-Tetrachloroethane	1.1	Not Detected	7.3	Not Detected
1,1,2-Trichloroethane	1.1	Not Detected	5.8	Not Detected
1,1-Dichloroethane	1.1	Not Detected	4.3	Not Detected
1,1-Dichloroethene	1.1	Not Detected	4.2	Not Detected
1,1-Difluoroethane	4.3	Not Detected	12	Not Detected
1,2,3-Trichloropropane	4.3	Not Detected	26	Not Detected
1,2,4-Trichlorobenzene	4.3	Not Detected	32	Not Detected
1,2,4-Trimethylbenzene	1.1	Not Detected	5.2	Not Detected
1,2-Dibromo-3-chloropropane	4.3	Not Detected	41	Not Detected
1,2-Dibromoethane (EDB)	1.1	Not Detected	8.2	Not Detected
1,2-Dichlorobenzene	1.1	Not Detected	6.4	Not Detected
1,2-Dichloroethane	1.1	Not Detected	4.3	Not Detected
1,2-Dichloropropane	1.1	Not Detected	4.9	Not Detected
1,3,5-Trimethylbenzene	1.1	Not Detected	5.3	Not Detected
1,3-Butadiene	1.1	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	1.1	Not Detected	6.4	Not Detected
1,4-Dichlorobenzene	1.1	Not Detected	6.4	Not Detected
1,4-Dioxane	4.3	Not Detected	15	Not Detected
2,2,4-Trimethylpentane	1.1	Not Detected	5.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.3	Not Detected	13	Not Detected
2-Hexanone	4.3	Not Detected	18	Not Detected
2-Propanol	4.3	Not Detected	10	Not Detected
3-Chloropropene	4.3	Not Detected	13	Not Detected
4-Ethyltoluene	1.1	Not Detected	5.3	Not Detected
4-Methyl-2-pentanone	1.1	Not Detected	4.4	Not Detected
Acetone	11	Not Detected	25	Not Detected
Acrolein	4.3	Not Detected	9.8	Not Detected
Acrylonitrile	4.3	Not Detected	9.3	Not Detected
alpha-Chlorotoluene	1.1	Not Detected	5.5	Not Detected
Benzene	1.1	Not Detected	3.4	Not Detected
Bromodichloromethane	1.1	Not Detected	7.2	Not Detected
Bromoform	1.1	Not Detected	11	Not Detected
Bromomethane	11	Not Detected	42	Not Detected
Carbon Disulfide	4.3	Not Detected	13	Not Detected
Carbon Tetrachloride	1.1	Not Detected	6.7	Not Detected
Chlorobenzene	1.1	Not Detected	4.9	Not Detected
Chloroethane	4.3	Not Detected	11	Not Detected
Chloroform	1.1	Not Detected	5.2	Not Detected
Chloromethane	11	Not Detected	22	Not Detected
cis-1,2-Dichloroethene	1.1	Not Detected	4.2	Not Detected

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Client Sample ID: SG-VW55B-02

Lab ID#: 2107284-16A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3072624**	**Date of Collection:**	**7/14/21 2:40:00 PM**
Dil. Factor:	**2.14**	**Date of Analysis:**	**7/27/21 01:22 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,3-Dichloropropene	1.1	Not Detected	4.8	Not Detected
Cumene	1.1	Not Detected	5.2	Not Detected
Cyclohexane	1.1	Not Detected	3.7	Not Detected
Dibromochloromethane	1.1	Not Detected	9.1	Not Detected
Dibromomethane	4.3	Not Detected	30	Not Detected
Ethanol	11	Not Detected	20	Not Detected
Ethyl Acetate	4.3	Not Detected	15	Not Detected
Ethyl Benzene	1.1	Not Detected	4.6	Not Detected
Ethyl-tert-butyl ether	4.3	Not Detected	18	Not Detected
Freon 11	1.1	Not Detected	6.0	Not Detected
Freon 12	1.1	Not Detected	5.3	Not Detected
Freon 113	1.1	Not Detected	8.2	Not Detected
Freon 114	1.1	Not Detected	7.5	Not Detected
Freon 134a	4.3	Not Detected	18	Not Detected
Heptane	1.1	Not Detected	4.4	Not Detected
Hexachlorobutadiene	4.3	Not Detected	46	Not Detected
Hexachloroethane	4.3	Not Detected	41	Not Detected
Hexane	1.1	Not Detected	3.8	Not Detected
Iodomethane	11	Not Detected	62	Not Detected
Isopropyl ether	4.3	Not Detected	18	Not Detected
m,p-Xylene	1.1	Not Detected	4.6	Not Detected
Methyl tert-butyl ether	4.3	Not Detected	15	Not Detected
Methylene Chloride	11	Not Detected	37	Not Detected
Naphthalene	2.1	Not Detected	11	Not Detected
o-Xylene	1.1	Not Detected	4.6	Not Detected
Propylbenzene	1.1	Not Detected	5.3	Not Detected
Propylene	4.3	Not Detected	7.4	Not Detected
Styrene	1.1	Not Detected	4.6	Not Detected
tert-Amyl methyl ether	4.3	Not Detected	18	Not Detected
tert-Butyl alcohol	4.3	Not Detected	13	Not Detected
Tetrachloroethene	1.1	1.3	7.2	9.1
Tetrahydrofuran	1.1	Not Detected	3.2	Not Detected
Toluene	1.1	Not Detected	4.0	Not Detected
TPH ref. to Gasoline (MW=100)	110	Not Detected	440	Not Detected
trans-1,2-Dichloroethene	1.1	Not Detected	4.2	Not Detected
trans-1,3-Dichloropropene	1.1	Not Detected	4.8	Not Detected
Trichloroethene	1.1	Not Detected	5.8	Not Detected
Vinyl Acetate	4.3	Not Detected	15	Not Detected
Vinyl Bromide	4.3	Not Detected	19	Not Detected
Vinyl Chloride	1.1	Not Detected	2.7	Not Detected

Container Type: 1 Liter Summa Canister

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Client Sample ID: SG-VW55B-02

Lab ID#: 2107284-16A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3072624**	**Date of Collection: 7/14/21 2:40:00 PM**	
Dil. Factor:	**2.14**	**Date of Analysis: 7/27/21 01:22 AM**	

Surrogates	%Recovery	Method Limits
Toluene-d8	95	70-130
1,2-Dichloroethane-d4	97	70-130
4-Bromofluorobenzene	94	70-130

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EPA TO-15/MODIFIED TO14A

Data file : /chem/msd3.i/26JUL21.b/3072624.d
Lab Smp Id: 2107284-16A
Inj Date : 27-JUL-2021 01:22
Operator : DF Inst ID: msd3.i
Smp Info : 200mL O0882
Misc Info : 6.5 Hg->9.9 psi
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msd3.i/26JUL21.b/321q0622a.m
Meth Date : 28-Jul-2021 12:16 uexa Quant Type: ISTD
Cal Date : 23-JUN-2021 00:09 Cal File: 3062223.d
Als bottle: 7
Dil Factor: 2.14000
Integrator: HP RTE Compound Sublist: AEC25677.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE		(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 90 Bromochloromethane							CAS #: 74-97-5	
5.284	5.284 (1.000)	130	232873	25.0000			80.00- 120.00	100.00
5.284	5.284 (1.000)	128	179537				48.46- 108.46	77.10
5.284	5.284 (1.000)	49	332404				120.39- 180.39	142.74
* 108 1,4-Difluorobenzene							CAS #: 540-36-3	
6.180	6.166 (1.000)	114	751650	25.0000			80.00- 120.00	100.00
6.180	6.166 (1.000)	88	108235				0.00- 45.52	14.40
* 153 Chlorobenzene-d5							CAS #: 3114-55-4	
8.619	8.612 (1.000)	117	675437	25.0000			80.00- 120.00	100.00
8.619	8.612 (1.000)	82	351361				25.46- 85.46	52.02
$ 104 1,2-Dichloroethane-d4							CAS #: 17060-07-0	
5.816	5.816 (1.101)	65	309811	24.1752	24.175		80.00- 120.00	100.00
5.816	5.816 (1.101)	67	149007				21.66- 81.66	48.10
$ 134 Toluene-d8							CAS #: 2037-26-5	
7.387	7.387 (1.195)	98	735949	23.7716	23.772		80.00- 120.00	100.00
7.387	7.387 (1.195)	70	82246				0.00- 41.47	11.18

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 134 Toluene-d8 (continued)							
7.387	7.387 (1.195)	100	483831			36.47- 96.47	65.74
$ 170 4-Bromofluorobenzene					CAS #: 460-00-4		
9.608	9.601 (1.115)	174	420428	23.5328	23.533	80.00- 120.00	100.00
9.601	9.601 (1.114)	95	477687			93.06- 153.06	113.62
9.608	9.601 (1.115)	176	393846			62.87- 122.87	93.68
142 Tetrachloroethene					CAS #: 127-18-4		
7.881	7.881 (0.914)	166	6637	0.62723	1.342	80.00- 120.00	100.00
7.881	7.881 (0.914)	129	5913			48.71- 108.71	89.09
7.881	7.881 (0.914)	131	5621			46.55- 106.55	84.69

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd3.i
Lab File ID: 3072624.d
Lab Smp Id: 2107284-16A
Analysis Type: VOA
Quant Type: ISTD
Operator: DF
Method File: /chem/msd3.i/26JUL21.b/321q0622a.m
Misc Info: 6.5 Hg->9.9 psi

Calibration Date: 26-JUL-2021
Calibration Time: 10:10
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	263983	158390	369576	232873	-11.78
108 1,4-Difluorobenze	833448	500069	1166827	751650	-9.81
153 Chlorobenzene-d5	741338	444803	1037873	675437	-8.89

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.28	4.95	5.61	5.28	0.00
108 1,4-Difluorobenze	6.17	5.84	6.50	6.18	0.23
153 Chlorobenzene-d5	8.61	8.28	8.94	8.62	0.08

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 28-Jul-2021 13:45

US32TAR1

RECOVERY REPORT

Client Name: Client SDG: 26JUL21
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 2107284-16A
Level: LOW Operator: DF
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT20_new.spk Quant Type: ISTD
Sublist File: AEC25677.sub
Method File: /chem/msd3.i/26JUL21.b/321q0622a.m
Misc Info: 6.5 Hg->9.9 psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 104 1,2-Dichloroethan	25.000	24.175	96.70	70-130
$ 134 Toluene-d8	25.000	23.772	95.09	70-130
$ 170 4-Bromofluorobenz	25.000	23.533	94.13	70-130

Data File: /chem/msd3.i/26JUL21.b/3072624.d

Date : 27-JUL-2021 01:22

Client ID:

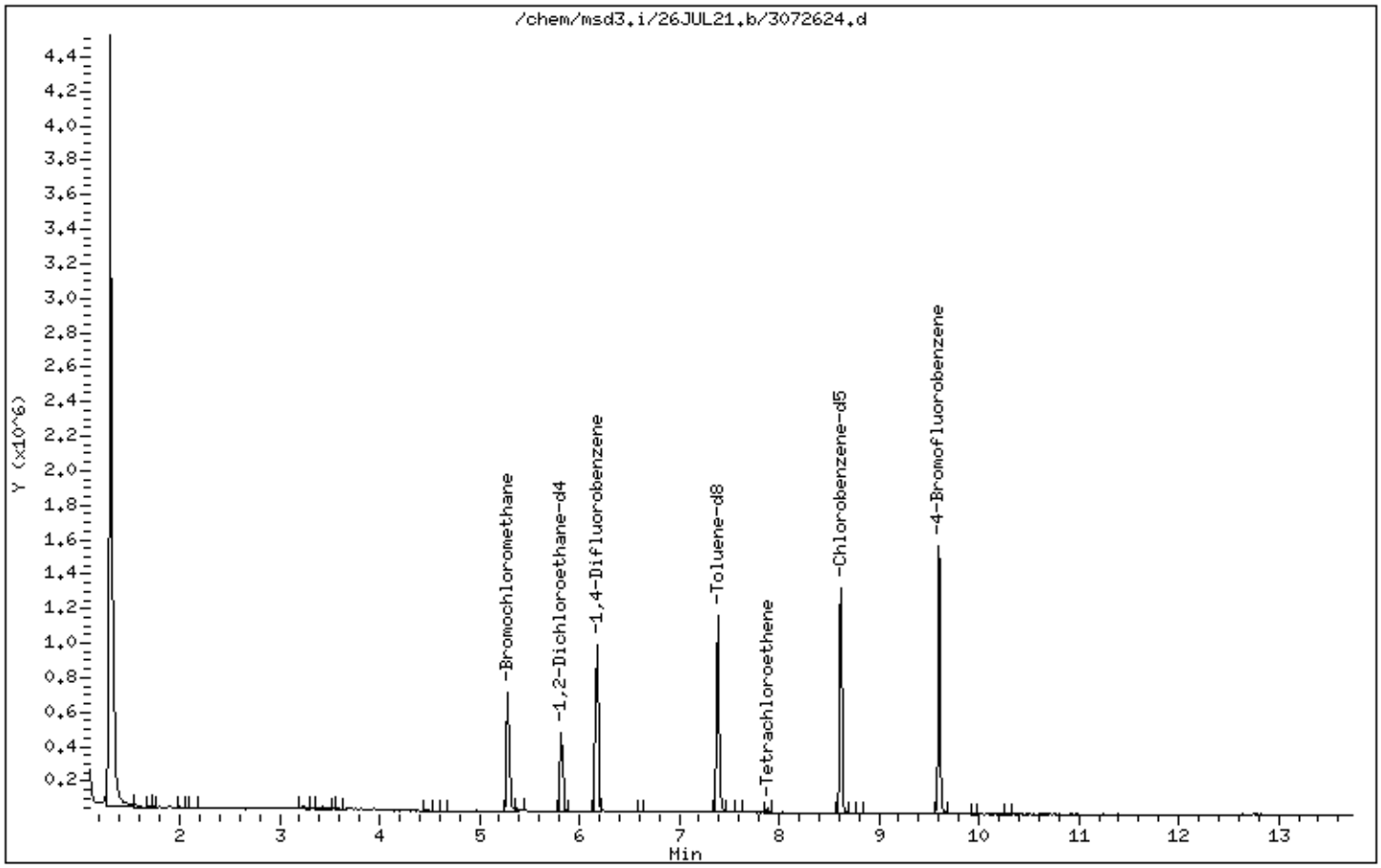
Instrument: msd3.i

Sample Info: 200mL 00882

Operator: DF

Column phase: RTX-624

Column diameter: 0.25



Data File: /chem/msd3.i/26JUL21.b/3072624.d

Date : 27-JUL-2021 01:22

Client ID:

Instrument: msd3.i

Sample Info: 200mL 00882

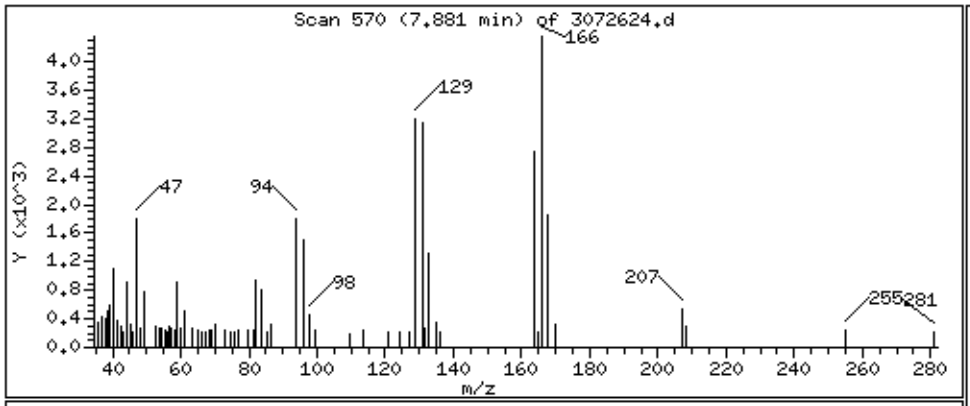
Operator: DF

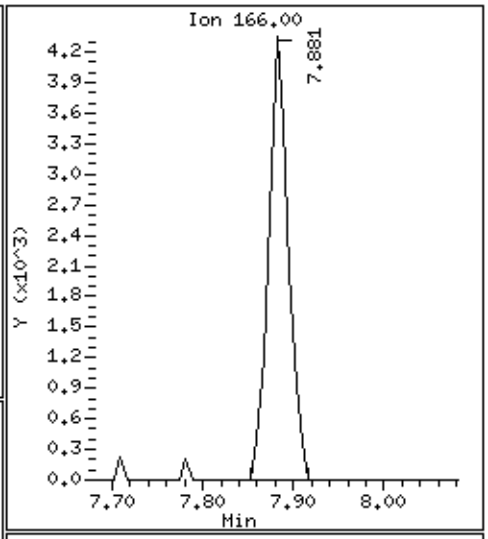
Column phase: RTX-624

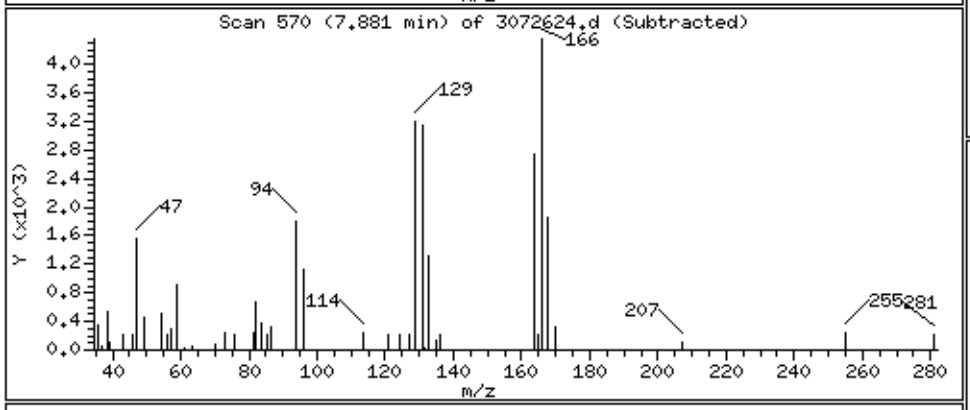
Column diameter: 0.25

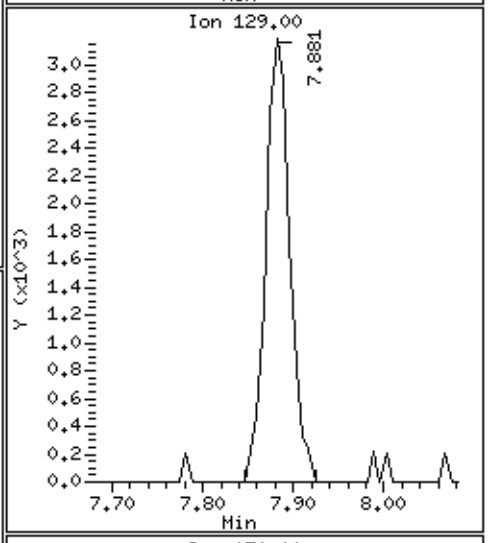
142 Tetrachloroethene

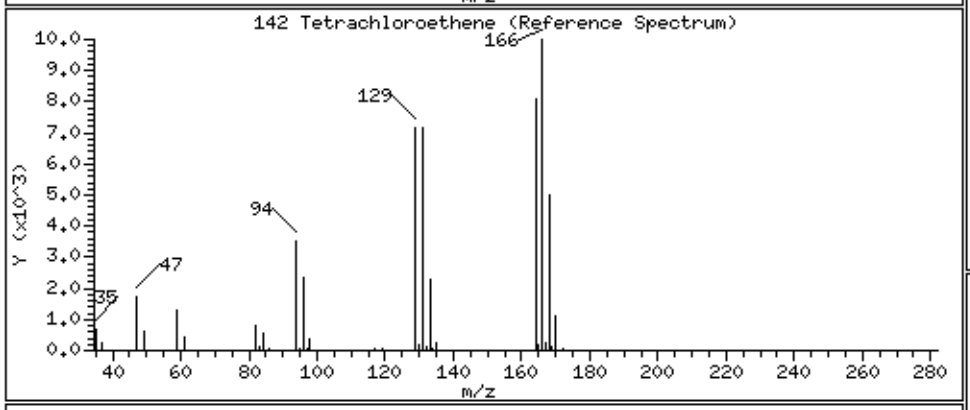
Concentration: 1.342 PPBV

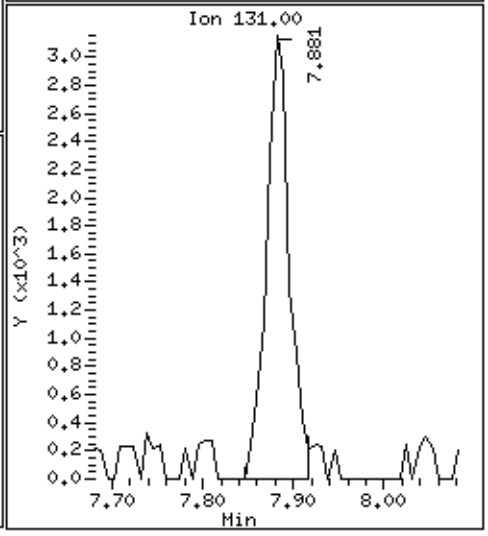


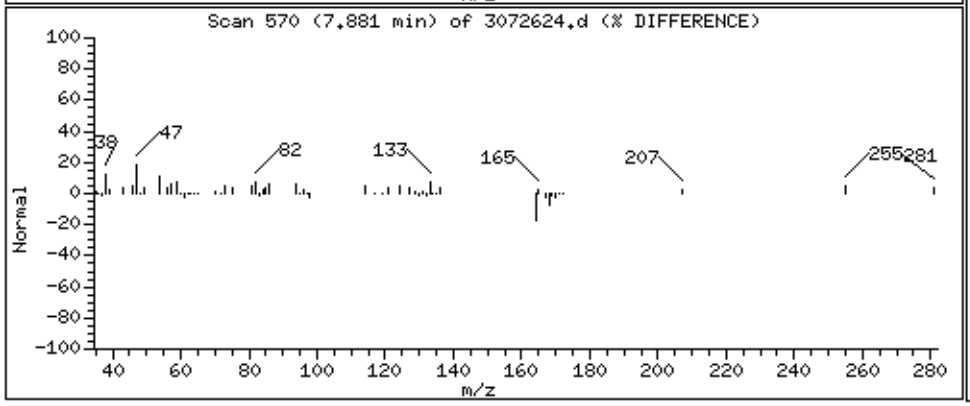












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Client Sample ID: SG-VW60A-01

Lab ID#: 2107284-17A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3072625**	**Date of Collection:**	**7/14/21 7:34:00 AM**
Dil. Factor:	**2.04**	**Date of Analysis:**	**7/27/21 01:51 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1,2-Tetrachloroethane	4.1	Not Detected	28	Not Detected
1,1,1-Trichloroethane	1.0	Not Detected	5.6	Not Detected
1,1,2,2-Tetrachloroethane	1.0	Not Detected	7.0	Not Detected
1,1,2-Trichloroethane	1.0	Not Detected	5.6	Not Detected
1,1-Dichloroethane	1.0	Not Detected	4.1	Not Detected
1,1-Dichloroethene	1.0	Not Detected	4.0	Not Detected
1,1-Difluoroethane	4.1	8300 E	11	22000 E
1,2,3-Trichloropropane	4.1	Not Detected	25	Not Detected
1,2,4-Trichlorobenzene	4.1	Not Detected	30	Not Detected
1,2,4-Trimethylbenzene	1.0	1.2	5.0	6.1
1,2-Dibromo-3-chloropropane	4.1	Not Detected	39	Not Detected
1,2-Dibromoethane (EDB)	1.0	Not Detected	7.8	Not Detected
1,2-Dichlorobenzene	1.0	Not Detected	6.1	Not Detected
1,2-Dichloroethane	1.0	Not Detected	4.1	Not Detected
1,2-Dichloropropane	1.0	Not Detected	4.7	Not Detected
1,3,5-Trimethylbenzene	1.0	1.3	5.0	6.4
1,3-Butadiene	1.0	Not Detected	2.2	Not Detected
1,3-Dichlorobenzene	1.0	Not Detected	6.1	Not Detected
1,4-Dichlorobenzene	1.0	Not Detected	6.1	Not Detected
1,4-Dioxane	4.1	Not Detected	15	Not Detected
2,2,4-Trimethylpentane	1.0	130	4.8	630
2-Butanone (Methyl Ethyl Ketone)	4.1	Not Detected	12	Not Detected
2-Hexanone	4.1	Not Detected	17	Not Detected
2-Propanol	4.1	13	10	33
3-Chloropropene	4.1	Not Detected	13	Not Detected
4-Ethyltoluene	1.0	2.2	5.0	11
4-Methyl-2-pentanone	1.0	Not Detected	4.2	Not Detected
Acetone	10	32	24	76
Acrolein	4.1	Not Detected	9.4	Not Detected
Acrylonitrile	4.1	Not Detected	8.8	Not Detected
alpha-Chlorotoluene	1.0	Not Detected	5.3	Not Detected
Benzene	1.0	31	3.2	98
Bromodichloromethane	1.0	Not Detected	6.8	Not Detected
Bromoform	1.0	Not Detected	10	Not Detected
Bromomethane	10	Not Detected	40	Not Detected
Carbon Disulfide	4.1	12	13	38
Carbon Tetrachloride	1.0	Not Detected	6.4	Not Detected
Chlorobenzene	1.0	Not Detected	4.7	Not Detected
Chloroethane	4.1	Not Detected	11	Not Detected
Chloroform	1.0	Not Detected	5.0	Not Detected
Chloromethane	10	Not Detected	21	Not Detected
cis-1,2-Dichloroethene	1.0	Not Detected	4.0	Not Detected

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Client Sample ID: SG-VW60A-01

Lab ID#: 2107284-17A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3072625**	**Date of Collection:**	**7/14/21 7:34:00 AM**
Dil. Factor:	**2.04**	**Date of Analysis:**	**7/27/21 01:51 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,3-Dichloropropene	1.0	Not Detected	4.6	Not Detected
Cumene	1.0	Not Detected	5.0	Not Detected
Cyclohexane	1.0	6.5	3.5	22
Dibromochloromethane	1.0	Not Detected	8.7	Not Detected
Dibromomethane	4.1	Not Detected	29	Not Detected
Ethanol	10	Not Detected	19	Not Detected
Ethyl Acetate	4.1	Not Detected	15	Not Detected
Ethyl Benzene	1.0	9.6	4.4	42
Ethyl-tert-butyl ether	4.1	Not Detected	17	Not Detected
Freon 11	1.0	Not Detected	5.7	Not Detected
Freon 12	1.0	Not Detected	5.0	Not Detected
Freon 113	1.0	Not Detected	7.8	Not Detected
Freon 114	1.0	Not Detected	7.1	Not Detected
Freon 134a	4.1	Not Detected	17	Not Detected
Heptane	1.0	9.0	4.2	37
Hexachlorobutadiene	4.1	Not Detected	44	Not Detected
Hexachloroethane	4.1	Not Detected	40	Not Detected
Hexane	1.0	100	3.6	360
Iodomethane	10	Not Detected	59	Not Detected
Isopropyl ether	4.1	Not Detected	17	Not Detected
m,p-Xylene	1.0	22	4.4	93
Methyl tert-butyl ether	4.1	Not Detected	15	Not Detected
Methylene Chloride	10	Not Detected	35	Not Detected
Naphthalene	2.0	Not Detected	11	Not Detected
o-Xylene	1.0	7.4	4.4	32
Propylbenzene	1.0	Not Detected	5.0	Not Detected
Propylene	4.1	Not Detected	7.0	Not Detected
Styrene	1.0	Not Detected	4.3	Not Detected
tert-Amyl methyl ether	4.1	Not Detected	17	Not Detected
tert-Butyl alcohol	4.1	Not Detected	12	Not Detected
Tetrachloroethene	1.0	13	6.9	87
Tetrahydrofuran	1.0	3.4	3.0	10
Toluene	1.0	91	3.8	340
TPH ref. to Gasoline (MW=100)	100	1800	420	7400
trans-1,2-Dichloroethene	1.0	Not Detected	4.0	Not Detected
trans-1,3-Dichloropropene	1.0	Not Detected	4.6	Not Detected
Trichloroethene	1.0	Not Detected	5.5	Not Detected
Vinyl Acetate	4.1	Not Detected	14	Not Detected
Vinyl Bromide	4.1	Not Detected	18	Not Detected
Vinyl Chloride	1.0	Not Detected	2.6	Not Detected

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Client Sample ID: SG-VW60A-01

Lab ID#: 2107284-17A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3072625**	**Date of Collection: 7/14/21 7:34:00 AM**
Dil. Factor:	**2.04**	**Date of Analysis: 7/27/21 01:51 AM**

E = Exceeds instrument calibration range.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	89	70-130
1,2-Dichloroethane-d4	103	70-130
4-Bromofluorobenzene	98	70-130

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EPA TO-15/MODIFIED TO14A

Data file : /chem/msd3.i/26JUL21.b/3072625.d
Lab Smp Id: 2107284-17A
Inj Date : 27-JUL-2021 01:51
Operator : DF Inst ID: msd3.i
Smp Info : 200mL N1981
Misc Info : 5.5 Hg->9.8 psi
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msd3.i/26JUL21.b/321q0622a.m
Meth Date : 28-Jul-2021 12:16 uexa Quant Type: ISTD
Cal Date : 23-JUN-2021 00:09 Cal File: 3062223.d
Als bottle: 8
Dil Factor: 2.04000
Integrator: HP RTE Compound Sublist: AEC25677.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE		(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 90 Bromochloromethane						CAS #: 74-97-5		
5.284	5.284 (1.000)	130	237508	25.0000			80.00- 120.00	100.00
5.284	5.284 (1.000)	128	180819				48.46- 108.46	76.13
5.284	5.284 (1.000)	49	336522				120.39- 180.39	141.69
* 108 1,4-Difluorobenzene						CAS #: 540-36-3		
6.180	6.166 (1.000)	114	799627	25.0000			80.00- 120.00	100.00
6.180	6.166 (1.000)	88	117668				0.00- 45.52	14.72
* 153 Chlorobenzene-d5						CAS #: 3114-55-4		
8.619	8.612 (1.000)	117	663097	25.0000			80.00- 120.00	100.00
8.619	8.612 (1.000)	82	352243				25.46- 85.46	53.12
$ 104 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
5.816	5.816 (1.101)	65	338129	25.8700	25.870		80.00- 120.00	100.00
5.816	5.816 (1.101)	67	173143				21.66- 81.66	51.21
$ 134 Toluene-d8						CAS #: 2037-26-5		
7.387	7.387 (1.195)	98	735505	22.3318	22.332		80.00- 120.00	100.00
7.387	7.387 (1.195)	70	83339				0.00- 41.47	11.33

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 134 Toluene-d8 (continued)							
7.387	7.387 (1.195)	100	488334			36.47- 96.47	66.39
$ 170 4-Bromofluorobenzene					CAS #: 460-00-4		
9.608	9.601 (1.115)	174	431397	24.5961	24.596	80.00- 120.00	100.00
9.600	9.601 (1.114)	95	486962			93.06- 153.06	112.88
9.608	9.601 (1.115)	176	399045			62.87- 122.87	92.50
7 1,1-Difluoroethane					CAS #: 75-37-6		
1.450	1.451 (0.274)	65	15301763	4091.76	8347.2	80.00- 120.00	100.00(A)
1.450	1.493 (0.274)	51	32897624			321.86- 381.86	214.99
1.450	1.451 (0.274)	47	7817574			45.34- 105.34	51.09
47 Acetone					CAS #: 67-64-1		
3.227	3.214 (0.611)	58	62163	15.6090	31.842	80.00- 120.00	100.00
3.227	3.214 (0.611)	43	215107			299.66- 359.66	346.04
48 Carbon Disulfide					CAS #: 75-15-0		
3.311	3.298 (0.627)	76	105893	5.90475	12.046	80.00- 120.00	100.00
52 2-Propanol					CAS #: 67-63-0		
3.423	3.395 (0.648)	45	94059	6.56719	13.397	80.00- 120.00	100.00
3.409	3.395 (0.645)	43	16634			0.00- 48.61	17.68
67 Hexane					CAS #: 110-54-3		
4.179	4.179 (0.791)	57	659622	50.1522	102.31	80.00- 120.00	100.00
4.179	4.179 (0.791)	43	401657			32.99- 92.99	60.89
4.179	4.179 (0.791)	86	80130			0.00- 42.56	12.15
89 Tetrahydrofuran					CAS #: 109-99-9		
5.284	5.270 (1.000)	42	15872	1.67587	3.419	80.00- 120.00	100.00
5.284	5.270 (1.000)	71	5642			2.92- 62.92	35.55
5.284	5.270 (1.000)	72	5663			3.54- 63.54	35.68
94 Cyclohexane					CAS #: 110-82-7		
5.438	5.438 (1.029)	84	30054	3.19304	6.514	80.00- 120.00	100.00
5.466	5.438 (1.034)	56	242763			120.40- 180.40	807.73
5.466	5.438 (1.034)	41	161484			54.20- 114.20	537.30
101 2,2,4-Trimethylpentane					CAS #: 540-84-1		
5.774	5.774 (1.093)	57	2712381	65.9458	134.53	80.00- 120.00	100.00
5.774	5.774 (1.093)	56	923534			1.12- 61.12	34.05
5.774	5.774 (1.093)	41	822287			0.00- 57.49	30.32
102 Benzene					CAS #: 71-43-2		
5.788	5.788 (0.937)	78	275945	15.1225	30.850	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
102 Benzene (continued)							
5.802	5.788 (0.939)	77	73302			0.00- 53.80	26.56
107 Heptane					CAS #: 142-82-5		
5.942	5.942 (0.962)	71	31743	4.41658	9.010	80.00- 120.00	100.00
5.942	5.942 (0.962)	43	65490			179.02- 239.02	206.31
5.942	5.942 (0.962)	57	54919			84.85- 144.85	173.01
137 Toluene					CAS #: 108-88-3		
7.444	7.437 (1.205)	91	1091860	44.5947	90.973	80.00- 120.00	100.00
7.444	7.437 (1.205)	92	626381			28.30- 88.30	57.37
142 Tetrachloroethene					CAS #: 127-18-4		
7.881	7.881 (0.914)	166	65572	6.31218	12.877	80.00- 120.00	100.00
7.881	7.881 (0.914)	129	50339			48.71- 108.71	76.77
7.881	7.881 (0.914)	131	48454			46.55- 106.55	73.89
155 Ethyl Benzene					CAS #: 100-41-4		
8.691	8.684 (1.008)	106	42560	4.69638	9.581	80.00- 120.00	100.00
8.691	8.684 (1.008)	91	130566			282.48- 342.48	306.78
158 m,p-Xylene					CAS #: 108-38-3		
8.784	8.784 (1.019)	106	118897	10.5459	21.514	80.00- 120.00	100.00
8.784	8.784 (1.019)	91	238814			171.36- 231.36	200.86
164 o-Xylene					CAS #: 95-47-6		
9.128	9.121 (1.059)	106	38636	3.60981	7.364	80.00- 120.00	100.00
9.128	9.121 (1.059)	91	77551			179.99- 239.99	200.72
183 4-Ethyltoluene					CAS #: 622-96-8		
9.830	9.851 (1.140)	120	10904	1.06541	2.173	80.00- 120.00	100.00
9.830	9.851 (1.140)	105	33564			296.79- 356.79	307.80
185 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
9.908	9.901 (1.150)	120	9252	0.64362	1.313	80.00- 120.00	100.00
9.901	9.901 (1.149)	105	18876			176.40- 236.40	204.03
190 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
10.224	10.224 (1.186)	105	17381	0.61318	1.251	80.00- 120.00	100.00
10.224	10.224 (1.186)	120	8234			16.58- 76.58	47.37

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Report Date: 28-Jul-2021 14:29

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd3.i
Lab File ID: 3072625.d
Lab Smp Id: 2107284-17A
Analysis Type: VOA
Quant Type: ISTD
Operator: DF
Method File: /chem/msd3.i/26JUL21.b/321q0622a.m
Misc Info: 5.5 Hg->9.8 psi

Calibration Date: 26-JUL-2021
Calibration Time: 10:10
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	263983	158390	369576	237508	-10.03
108 1,4-Difluorobenze	833448	500069	1166827	799627	-4.06
153 Chlorobenzene-d5	741338	444803	1037873	663097	-10.55

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.28	4.95	5.61	5.28	-0.00
108 1,4-Difluorobenze	6.17	5.84	6.50	6.18	0.23
153 Chlorobenzene-d5	8.61	8.28	8.94	8.62	0.08

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 28-Jul-2021 14:29

US32TAR1

RECOVERY REPORT

Client Name: Client SDG: 26JUL21
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 2107284-17A
Level: LOW Operator: DF
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT20_new.spk Quant Type: ISTD
Sublist File: AEC25677.sub
Method File: /chem/msd3.i/26JUL21.b/321q0622a.m
Misc Info: 5.5 Hg->9.8 psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 104 1,2-Dichloroethan	25.000	25.870	103.48	70-130
$ 134 Toluene-d8	25.000	22.332	89.33	70-130
$ 170 4-Bromofluorobenz	25.000	24.596	98.38	70-130

Data File: /chem/msd3.i/26JUL21.b/3072625.d

Date : 27-JUL-2021 01:51

Client ID:

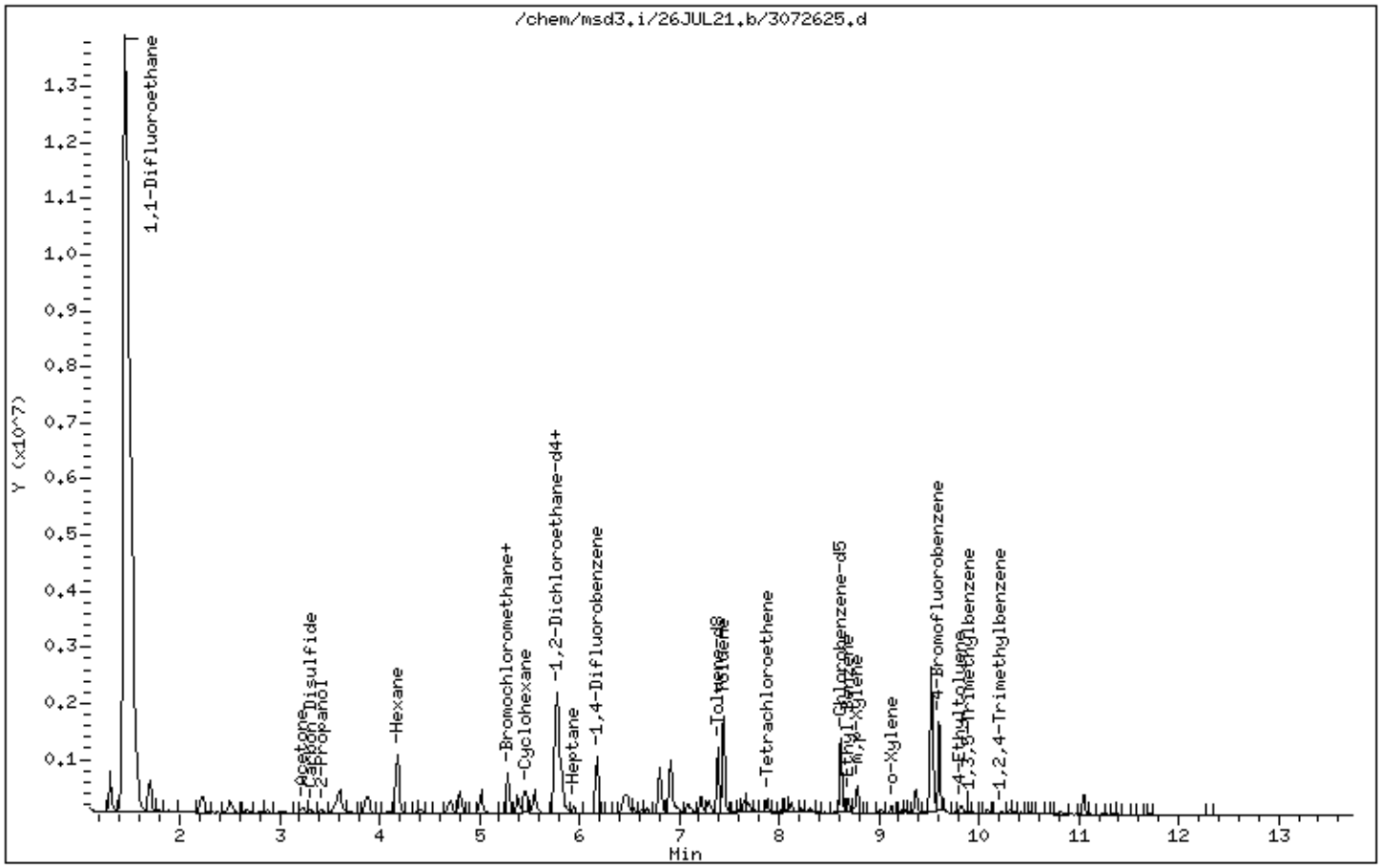
Instrument: msd3.i

Sample Info: 200mL N1981

Operator: DF

Column phase: RTX-624

Column diameter: 0.25



Data File: /chem/msd3.i/26JUL21.b/3072625.d

Date : 27-JUL-2021 01:51

Client ID:

Instrument: msd3.i

Sample Info: 200mL N1981

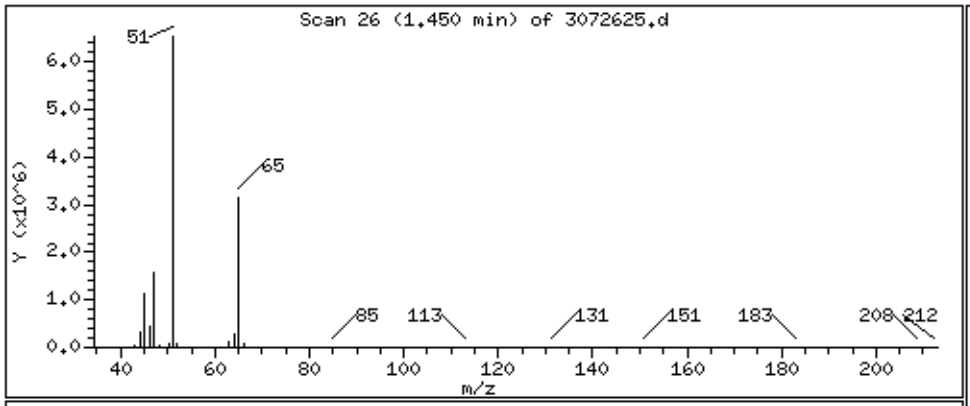
Operator: DF

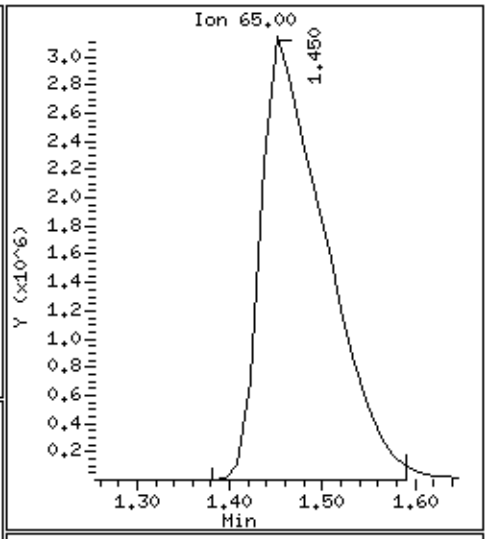
Column phase: RTX-624

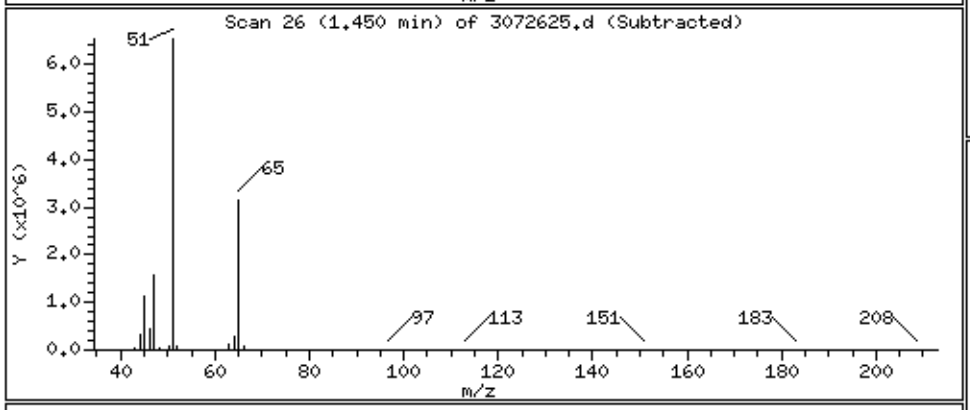
Column diameter: 0.25

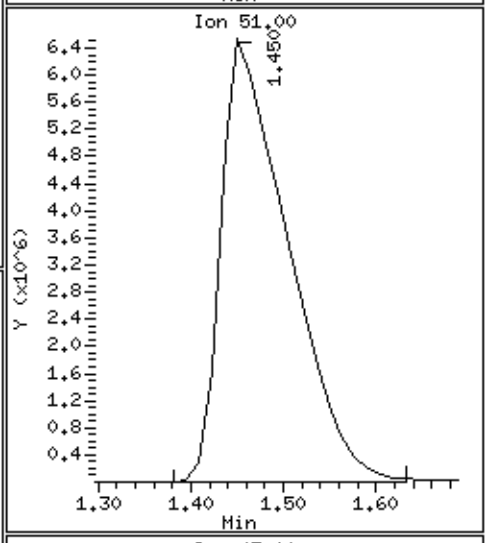
7 1,1-Difluoroethane

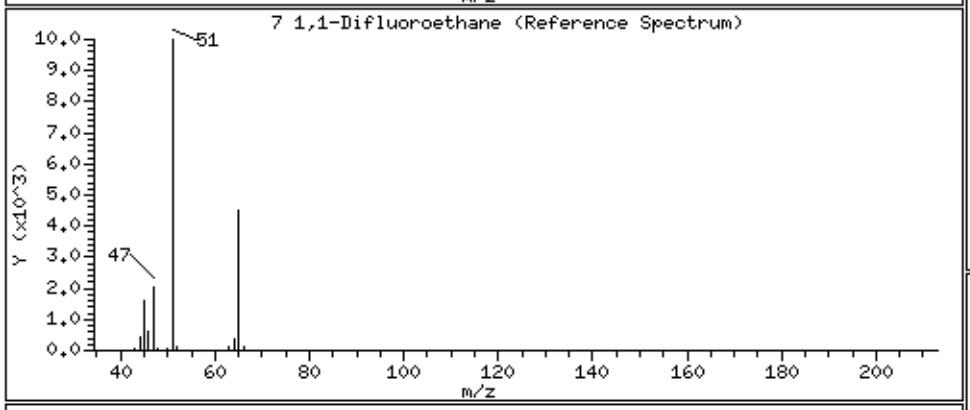
Concentration: 8347.2 PPBV

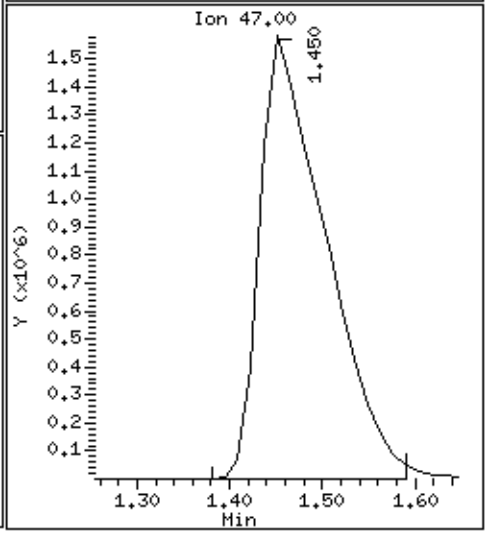


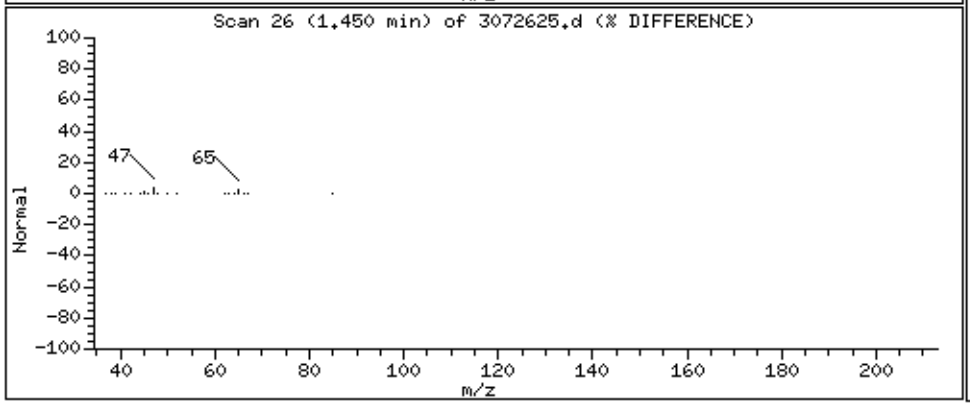












Data File: /chem/msd3.i/26JUL21.b/3072625.d

Date : 27-JUL-2021 01:51

Client ID:

Instrument: msd3.i

Sample Info: 200mL N1981

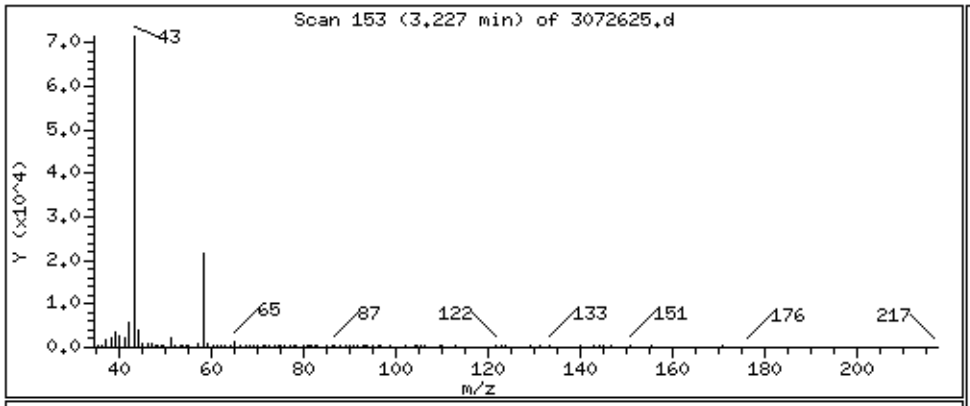
Operator: DF

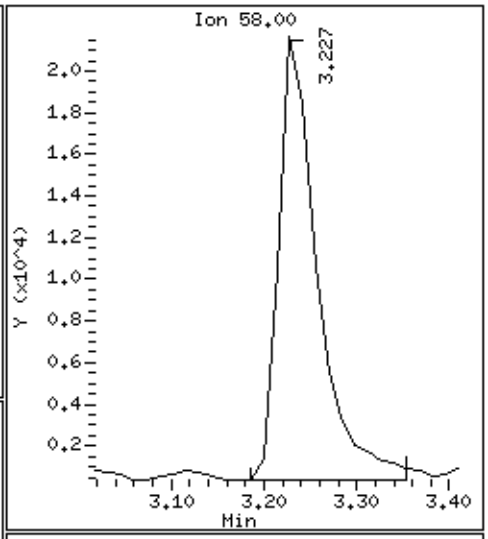
Column phase: RTX-624

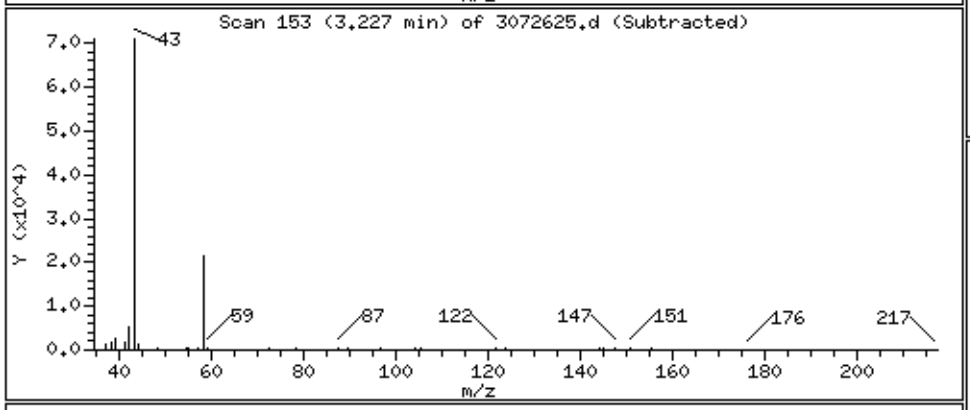
Column diameter: 0.25

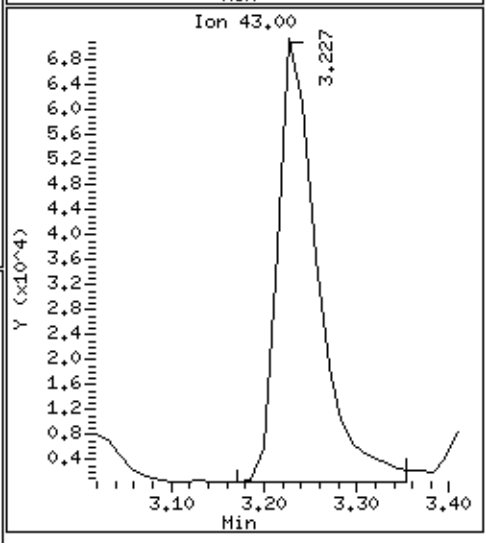
47 Acetone

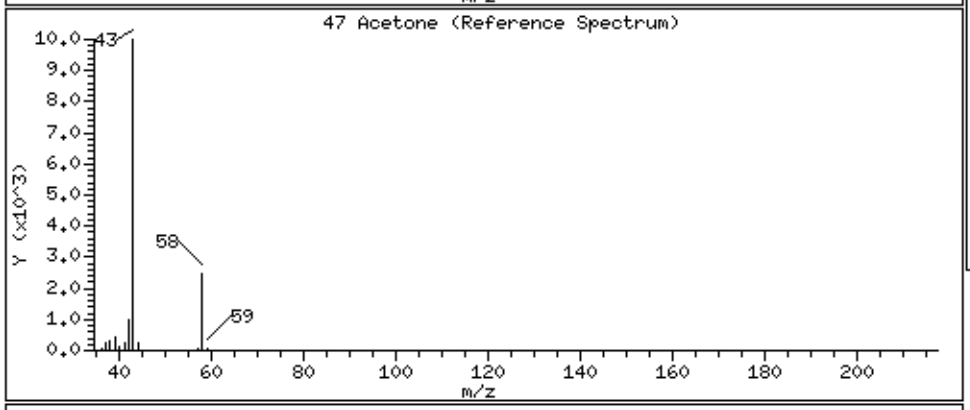
Concentration: 31.842 PPBV

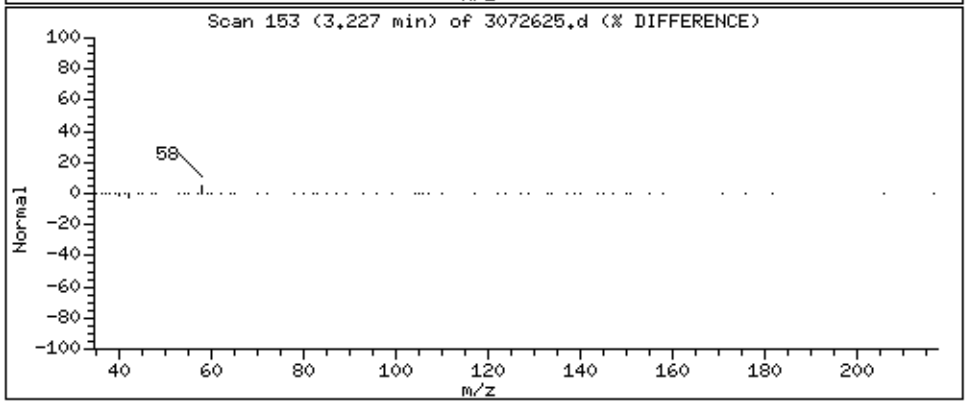












Data File: /chem/msd3.i/26JUL21.b/3072625.d

Date : 27-JUL-2021 01:51

Client ID:

Instrument: msd3.i

Sample Info: 200mL N1981

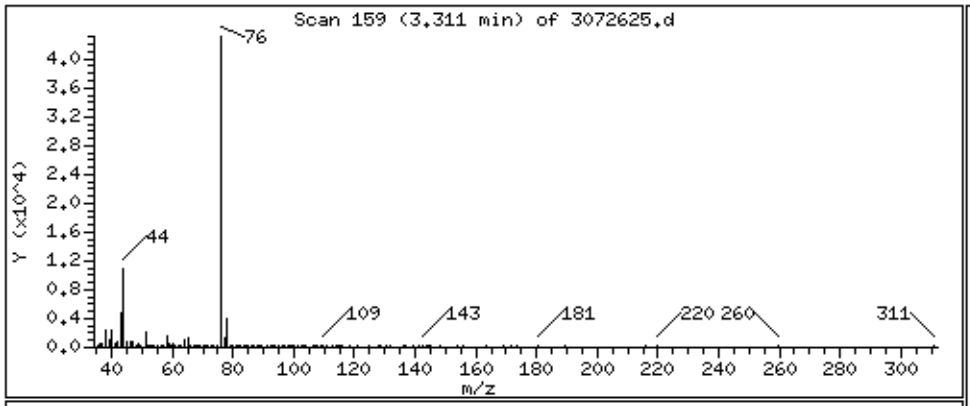
Operator: DF

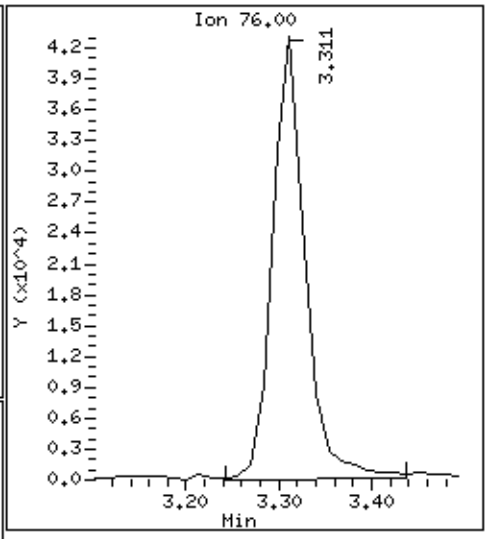
Column phase: RTX-624

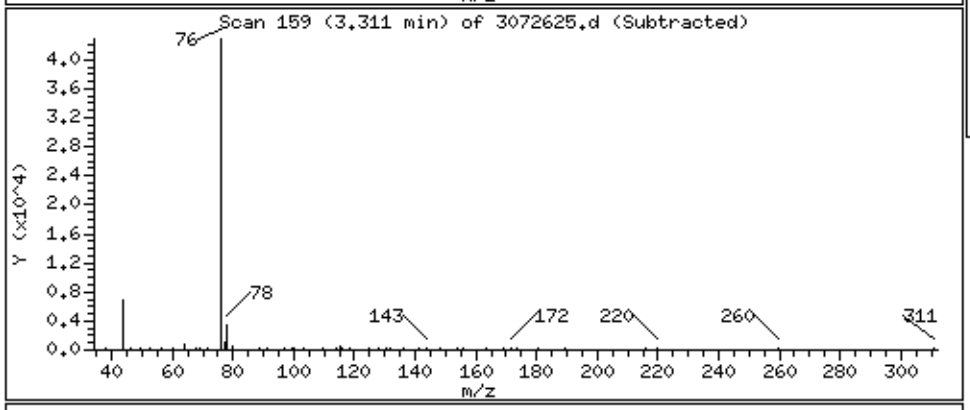
Column diameter: 0.25

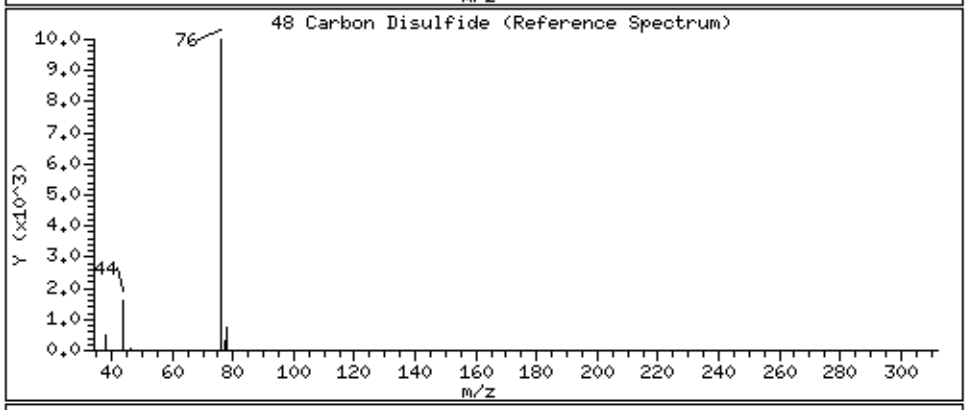
48 Carbon Disulfide

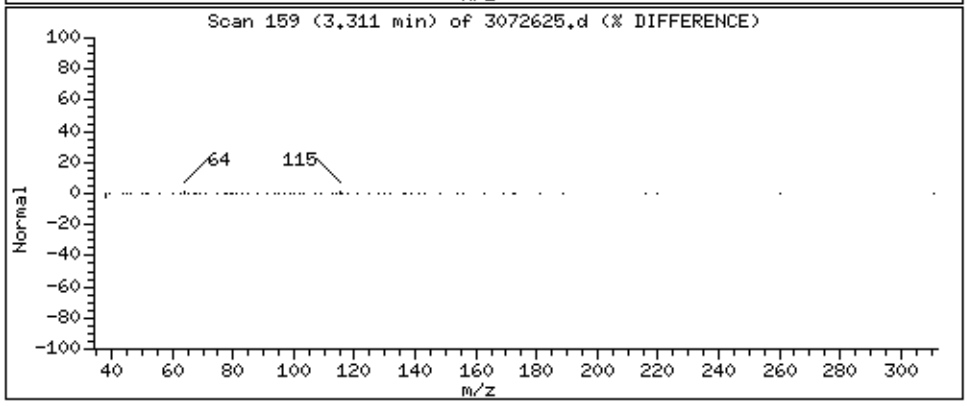
Concentration: 12.046 PPBV











Data File: /chem/msd3.i/26JUL21.b/3072625.d

Date : 27-JUL-2021 01:51

Client ID:

Instrument: msd3.i

Sample Info: 200mL N1981

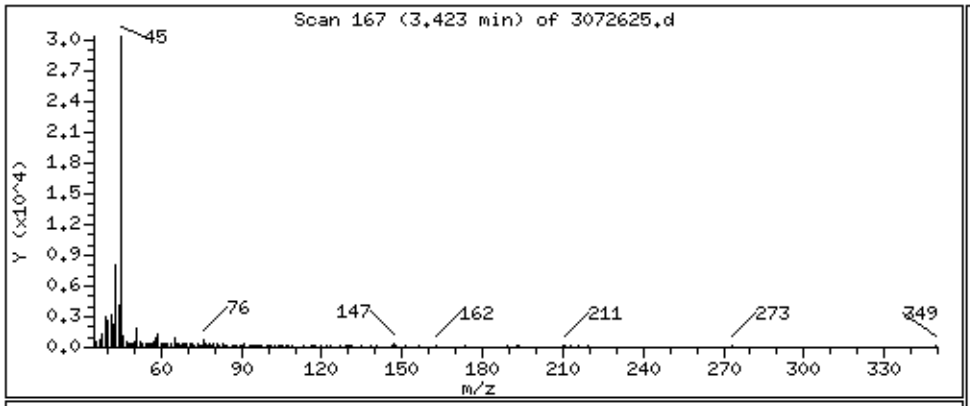
Operator: DF

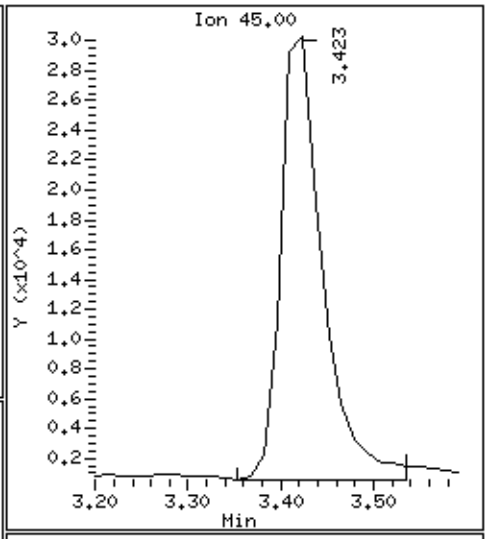
Column phase: RTX-624

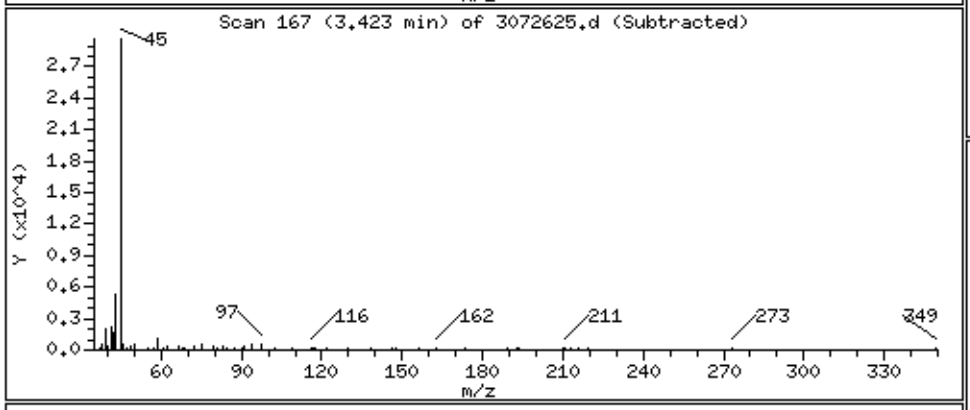
Column diameter: 0.25

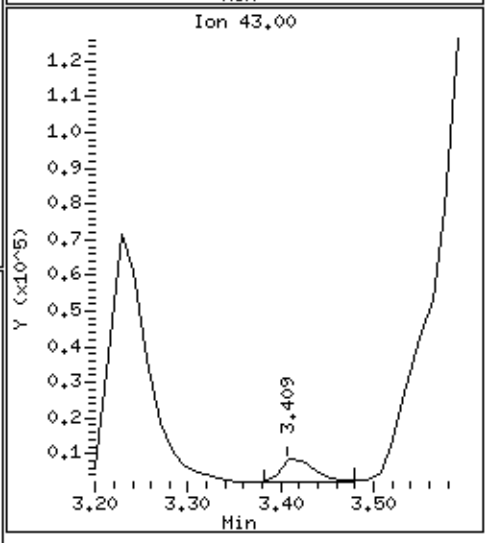
52 2-Propanol

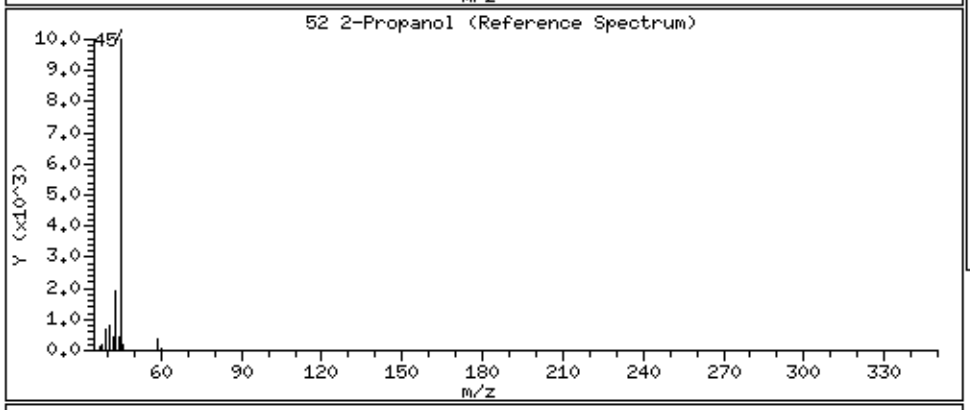
Concentration: 13.397 PPBV

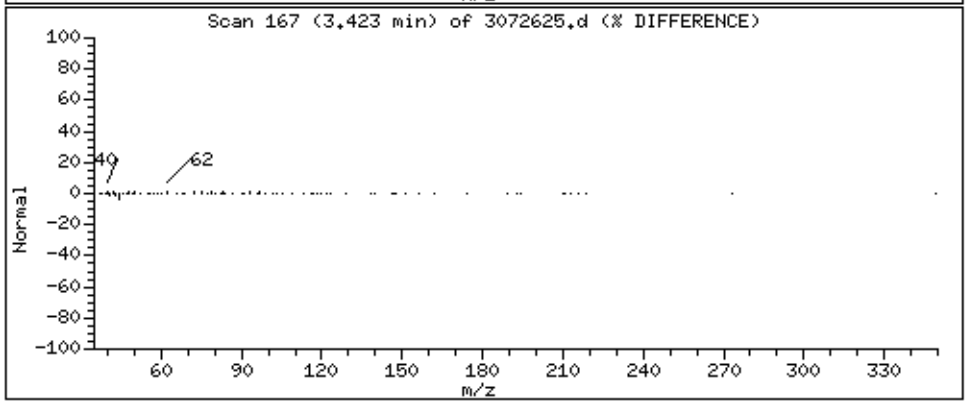












Data File: /chem/msd3.i/26JUL21.b/3072625.d

Date : 27-JUL-2021 01:51

Client ID:

Instrument: msd3.i

Sample Info: 200mL N1981

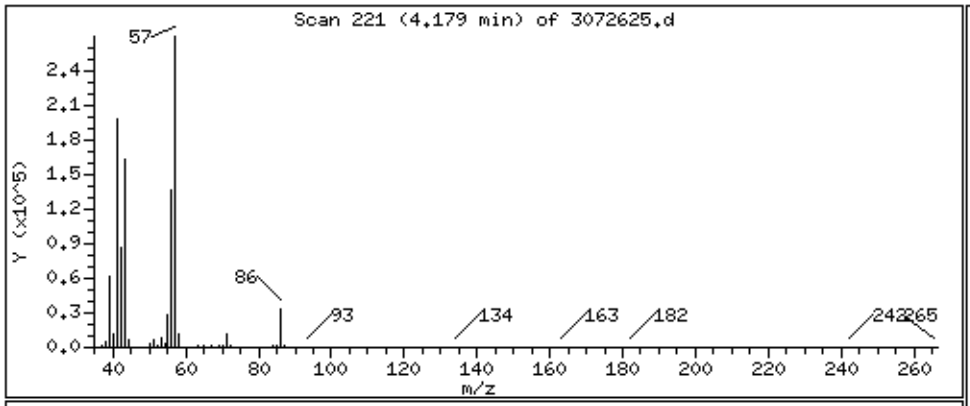
Operator: DF

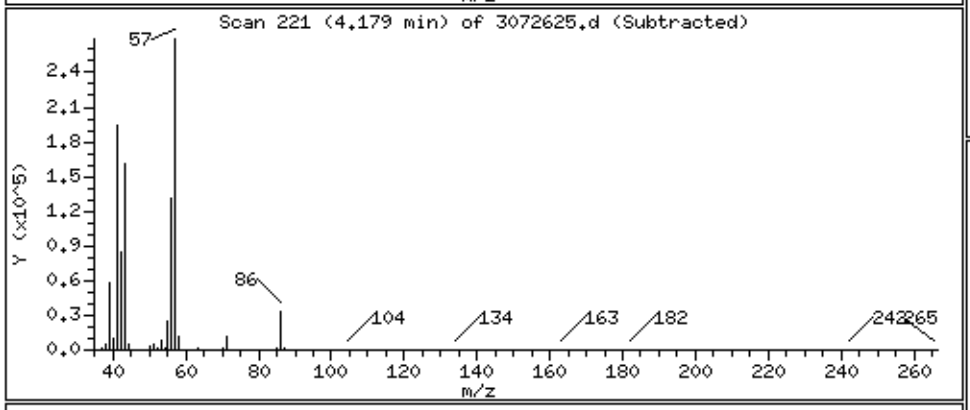
Column phase: RTX-624

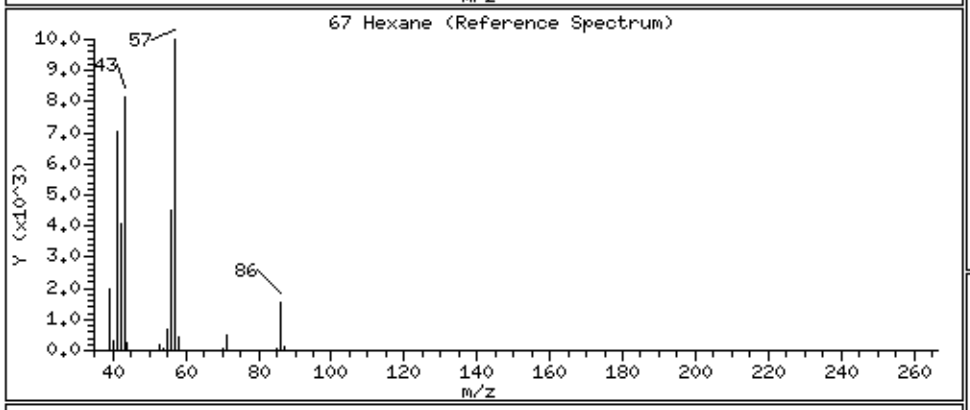
Column diameter: 0.25

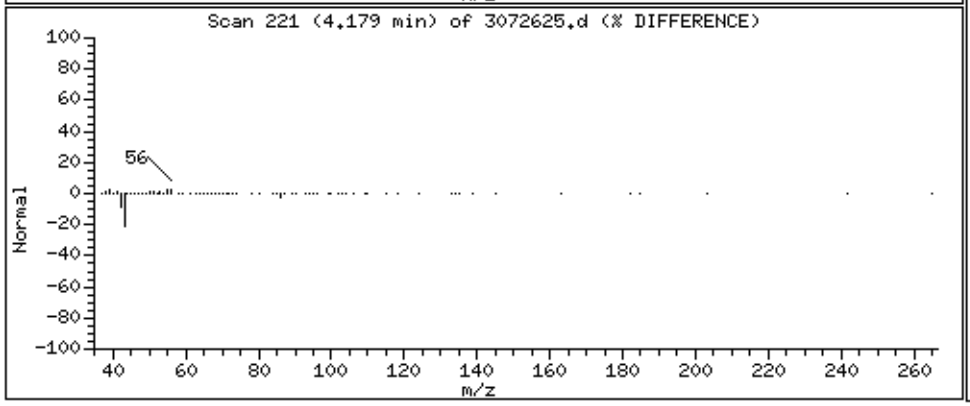
67 Hexane

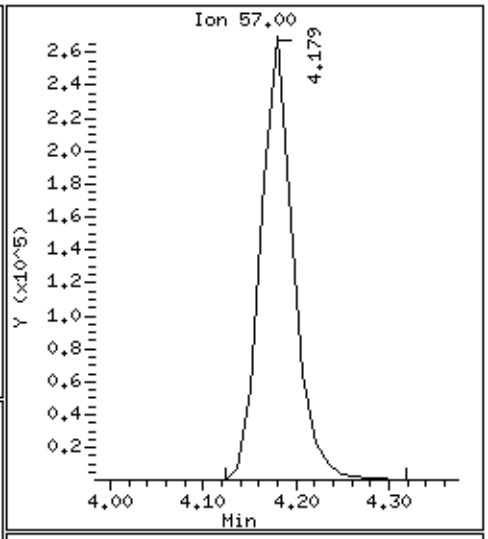
Concentration: 102.31 PPBV

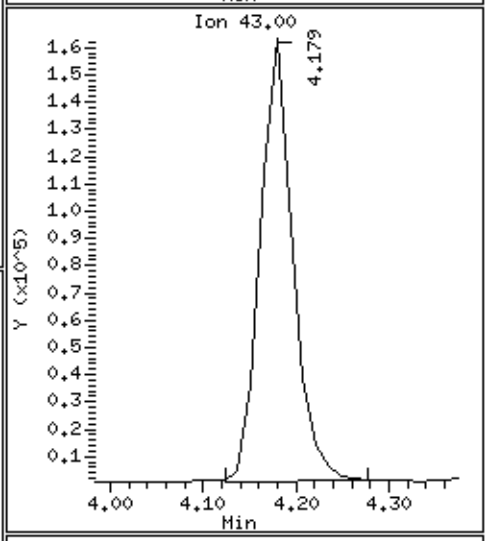


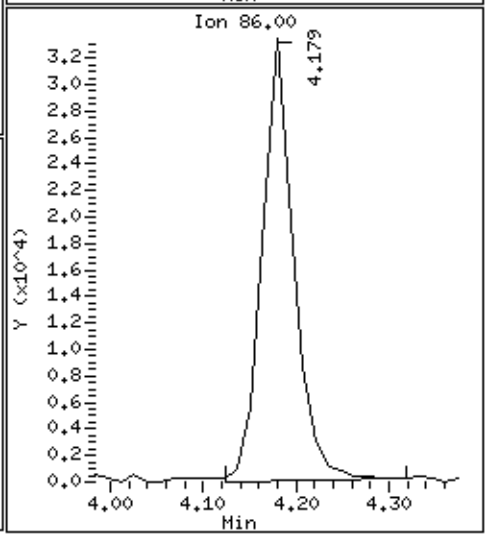












Data File: /chem/msd3.i/26JUL21.b/3072625.d

Date : 27-JUL-2021 01:51

Client ID:

Instrument: msd3.i

Sample Info: 200mL N1981

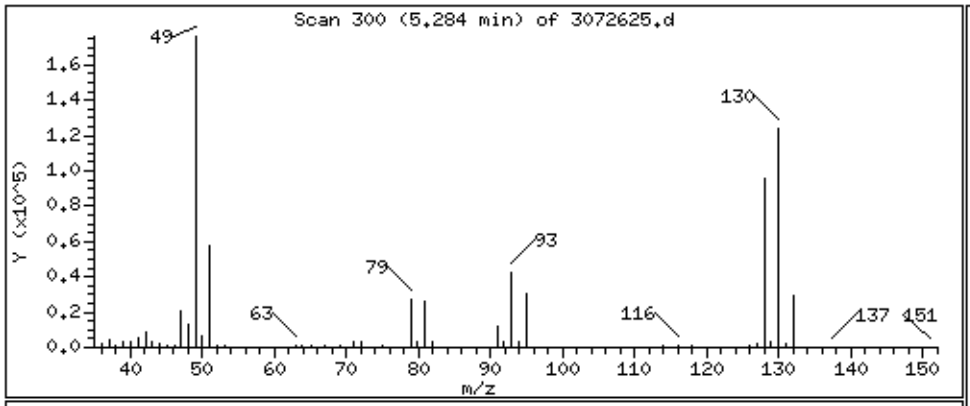
Operator: DF

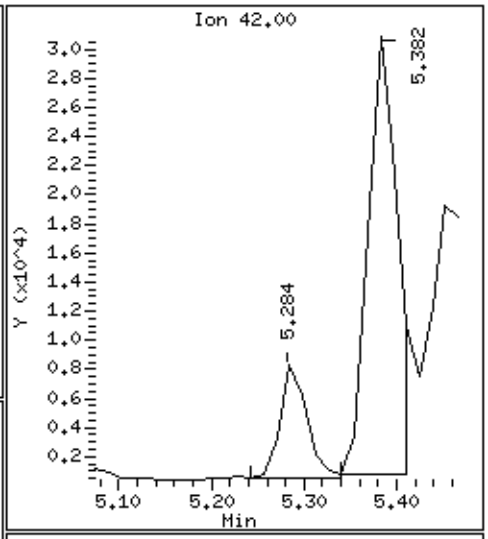
Column phase: RTX-624

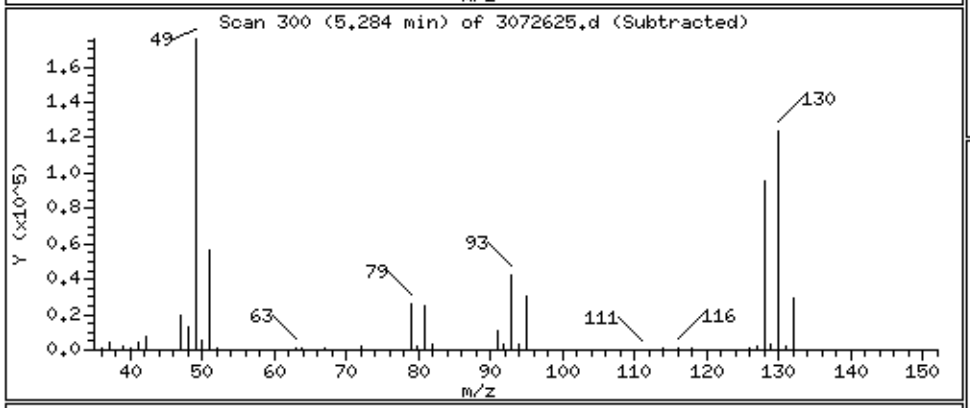
Column diameter: 0.25

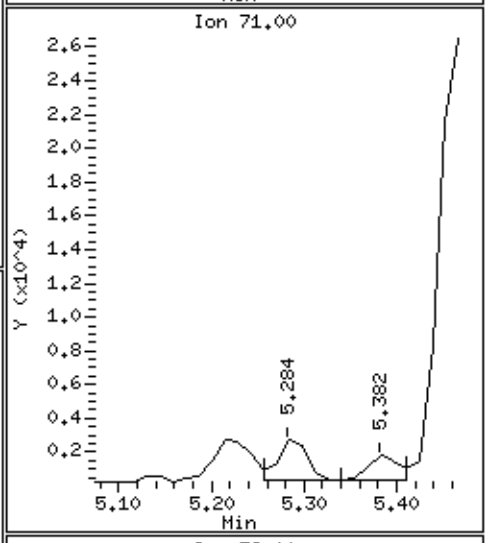
89 Tetrahydrofuran

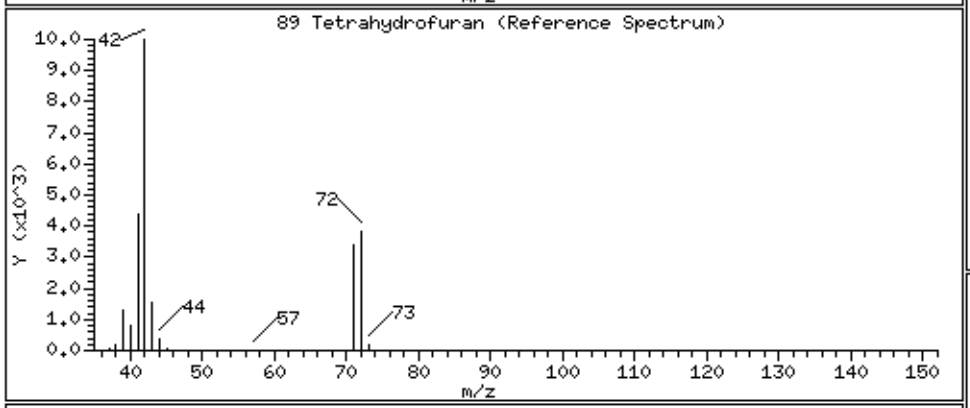
Concentration: 3.419 PPBV

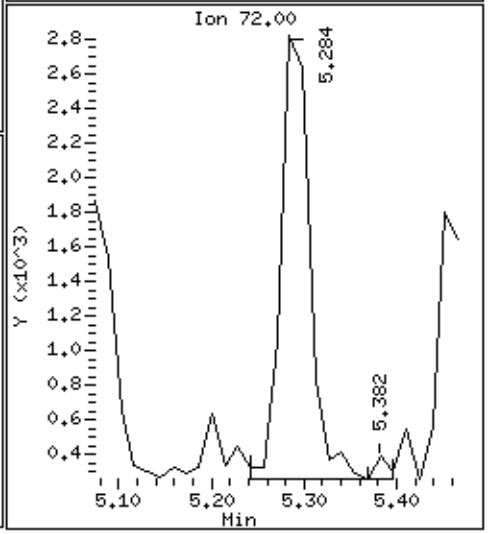


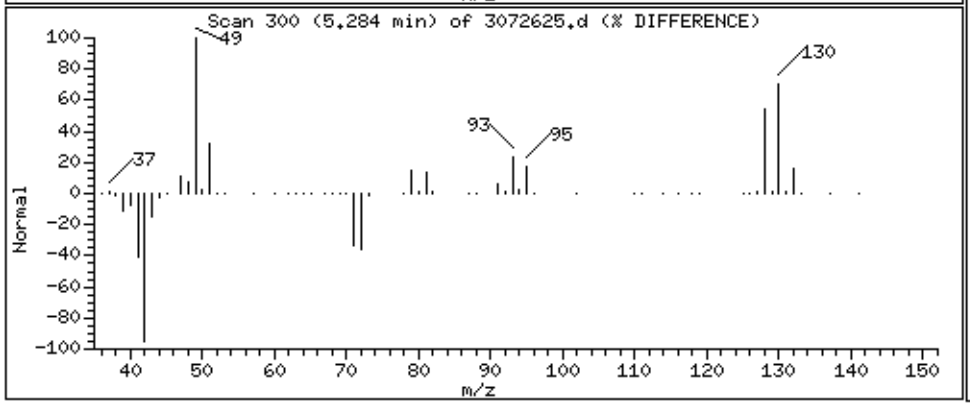












Data File: /chem/msd3.i/26JUL21.b/3072625.d

Date : 27-JUL-2021 01:51

Client ID:

Instrument: msd3.i

Sample Info: 200mL N1981

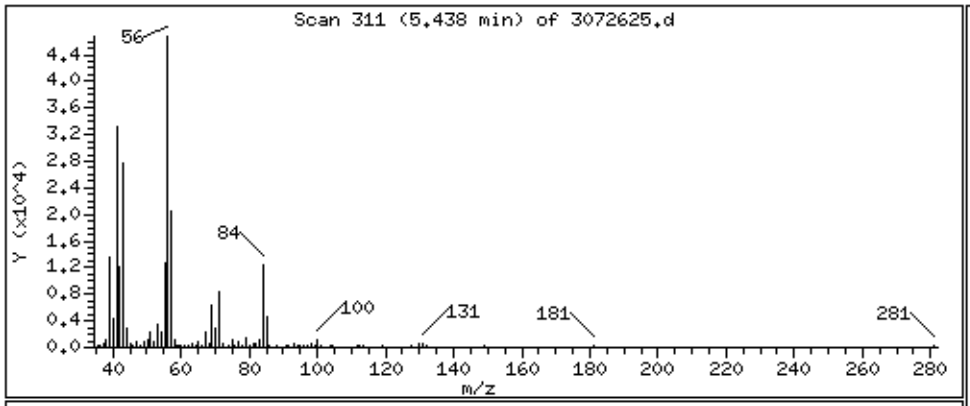
Operator: DF

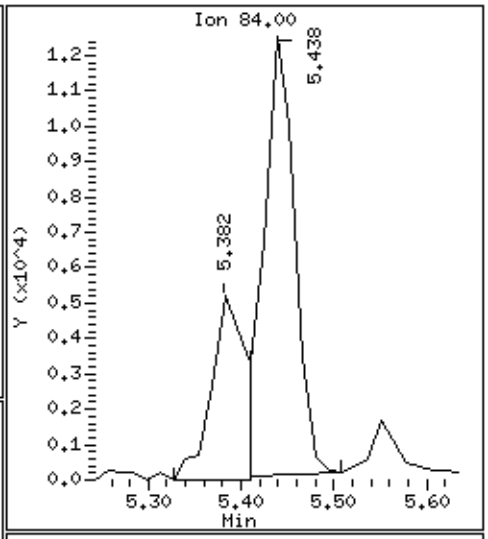
Column phase: RTX-624

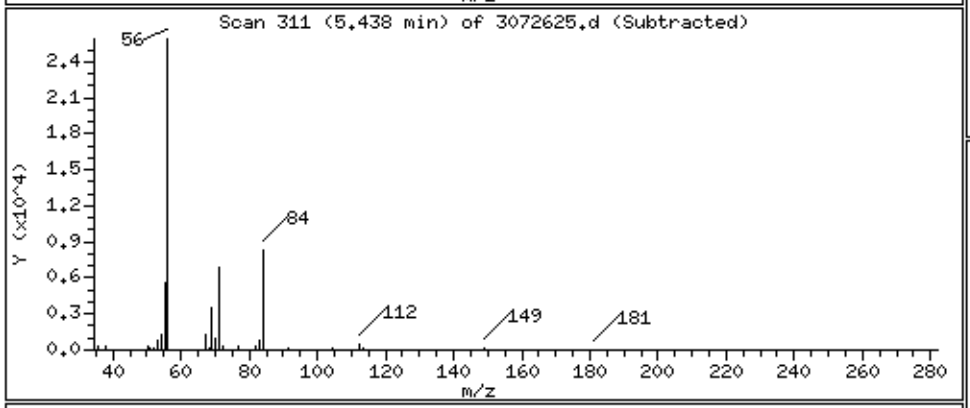
Column diameter: 0.25

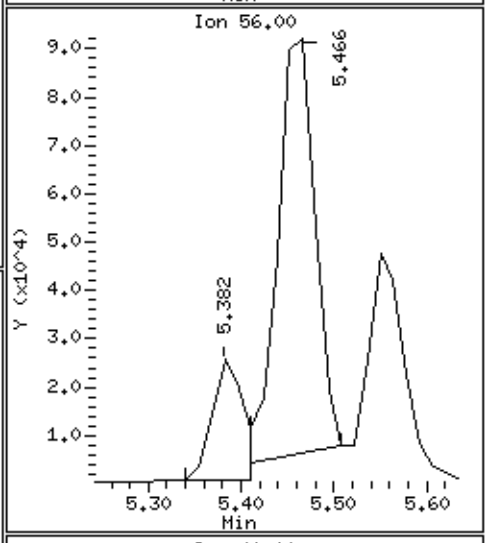
94 Cyclohexane

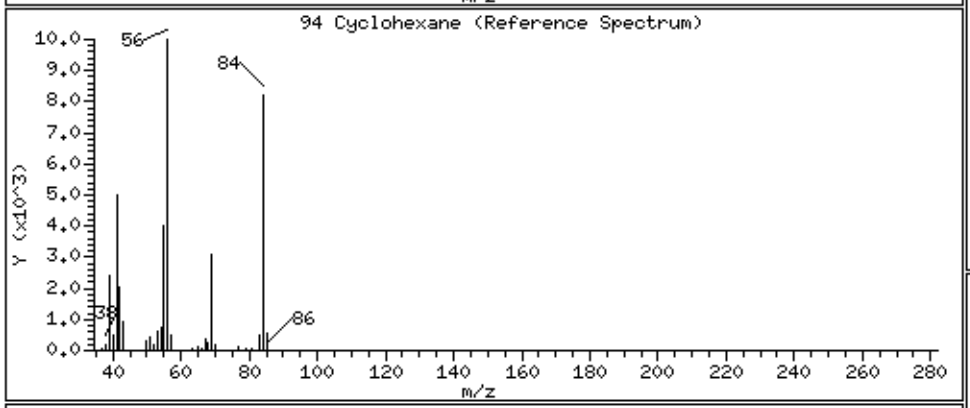
Concentration: 6.514 PPBV

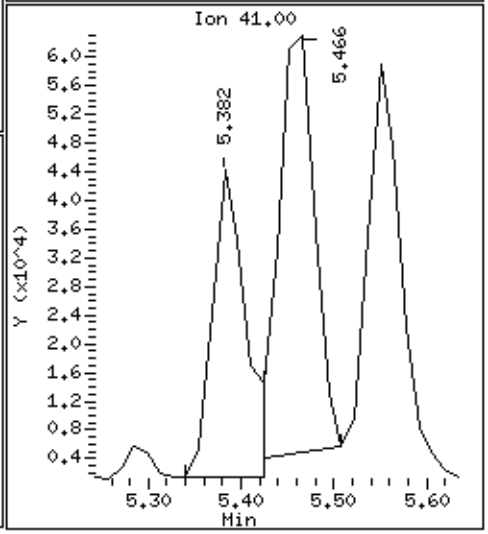


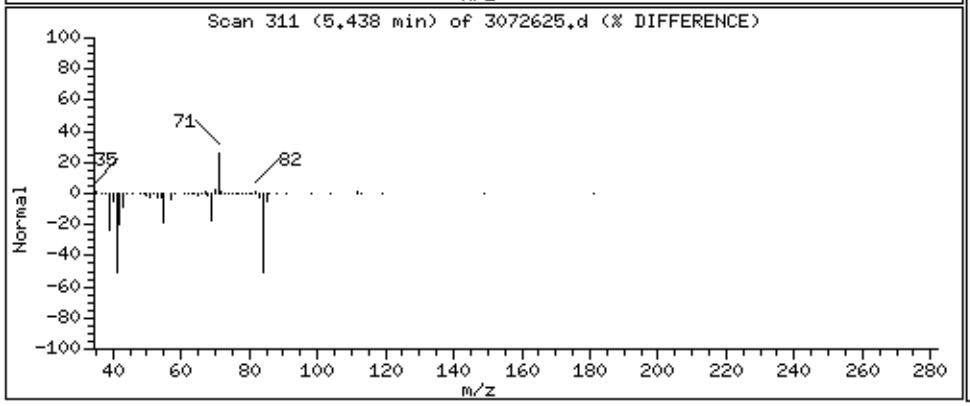












Data File: /chem/msd3.i/26JUL21.b/3072625.d

Date : 27-JUL-2021 01:51

Client ID:

Instrument: msd3.i

Sample Info: 200mL N1981

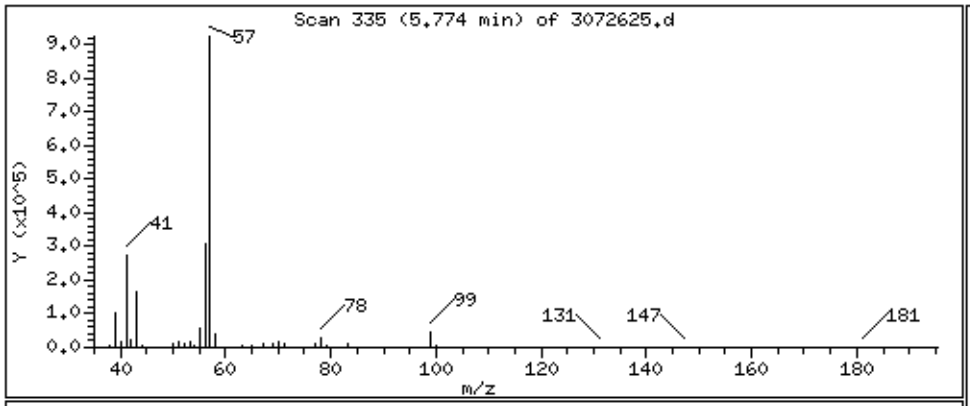
Operator: DF

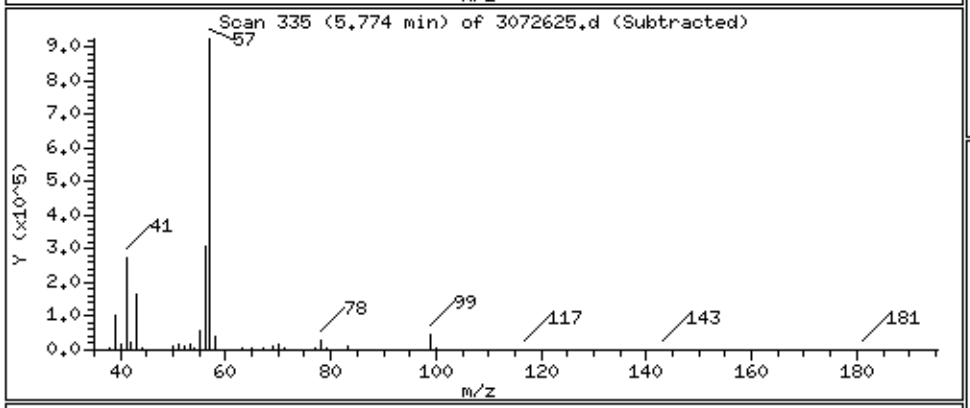
Column phase: RTX-624

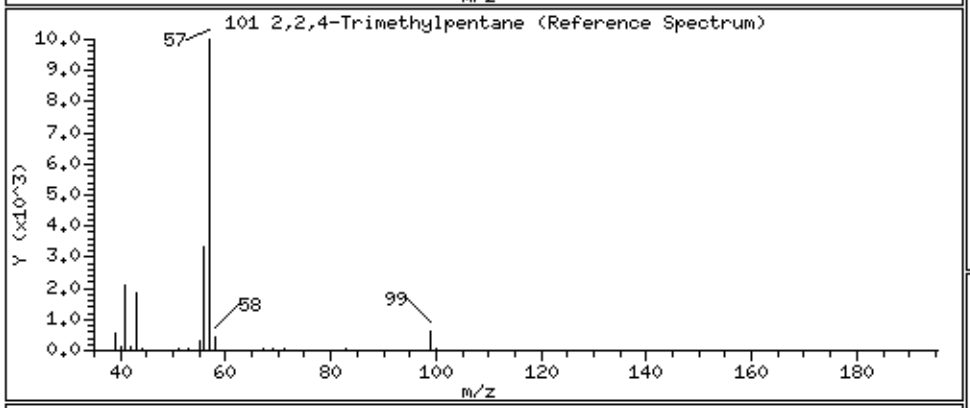
Column diameter: 0.25

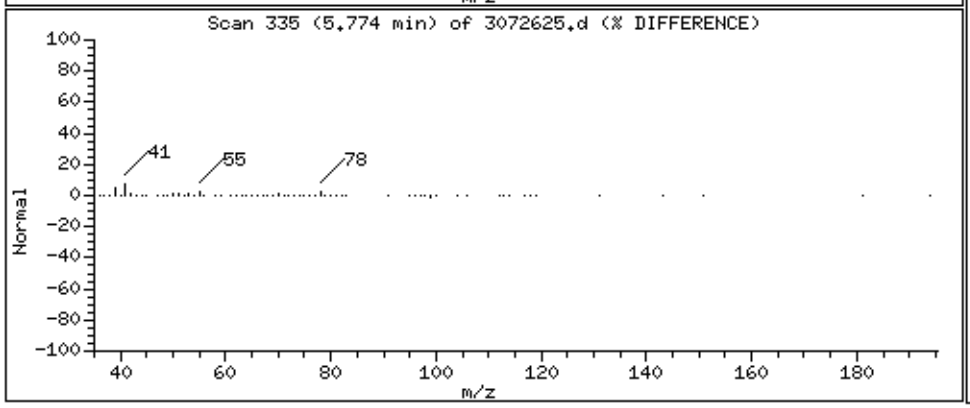
101 2,2,4-Trimethylpentane

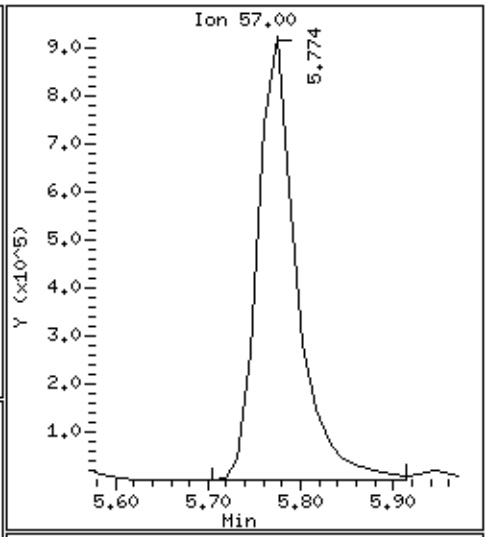
Concentration: 134.53 PPBV

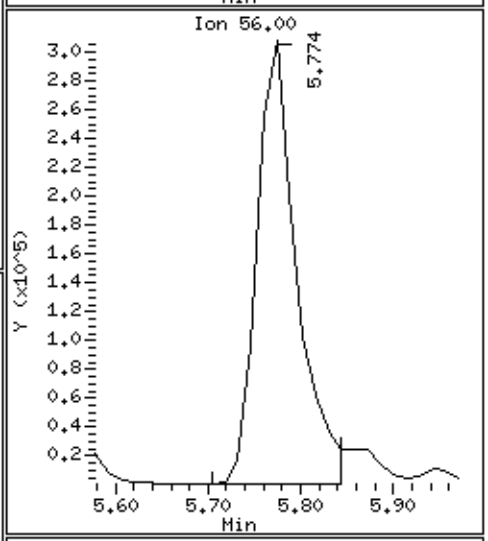


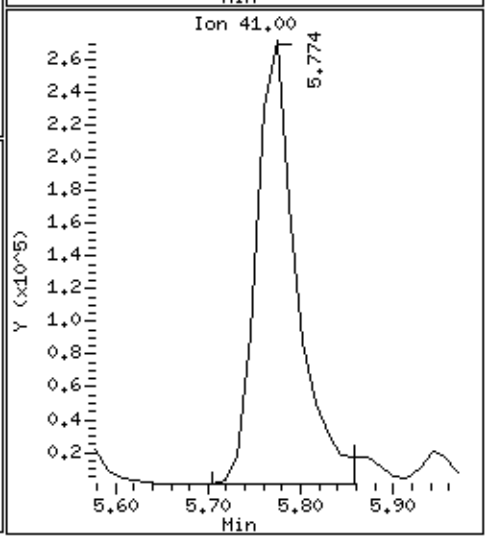












Data File: /chem/msd3.i/26JUL21.b/3072625.d

Date : 27-JUL-2021 01:51

Client ID:

Instrument: msd3.i

Sample Info: 200mL N1981

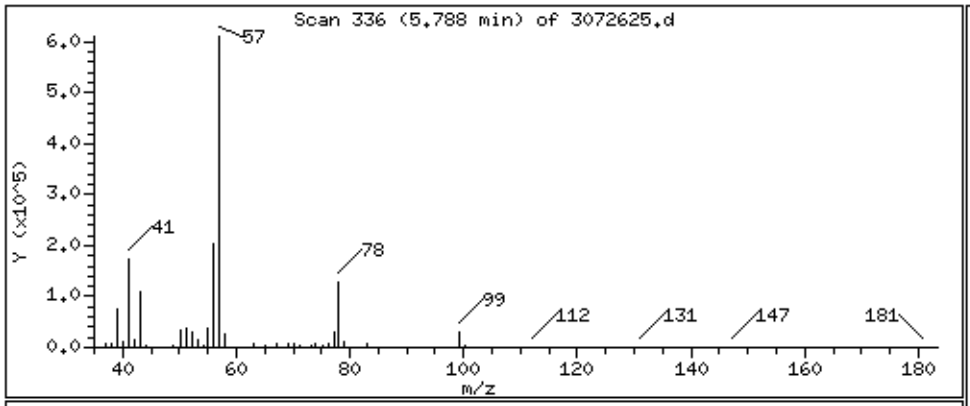
Operator: DF

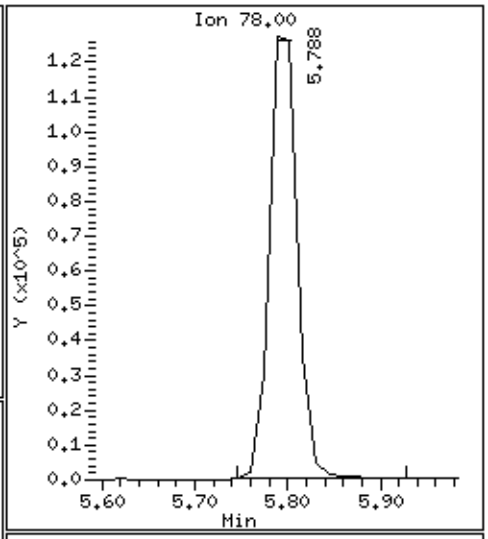
Column phase: RTX-624

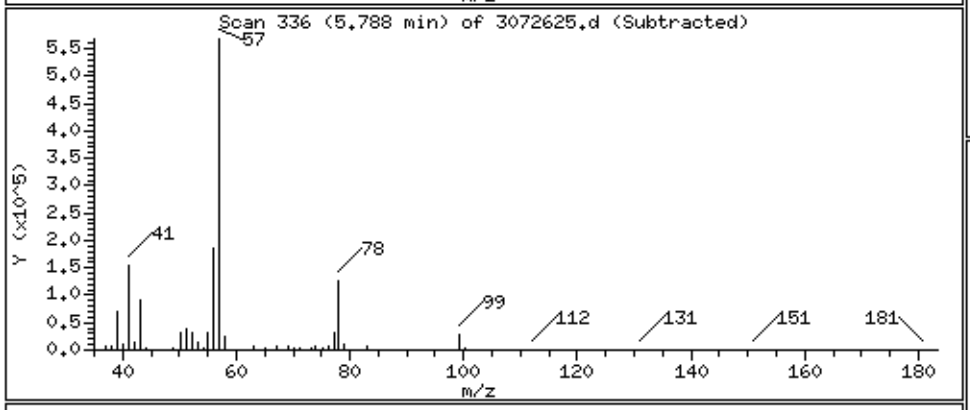
Column diameter: 0.25

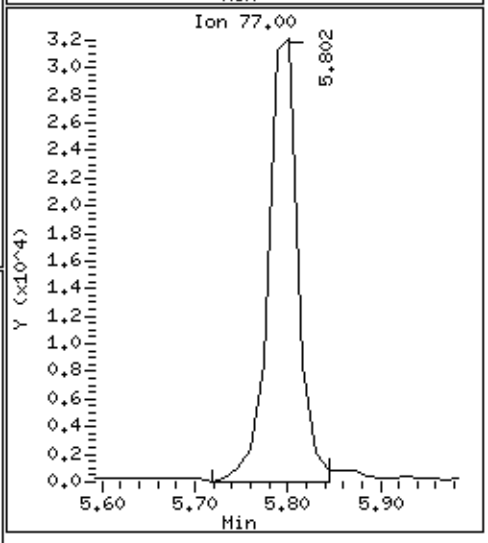
102 Benzene

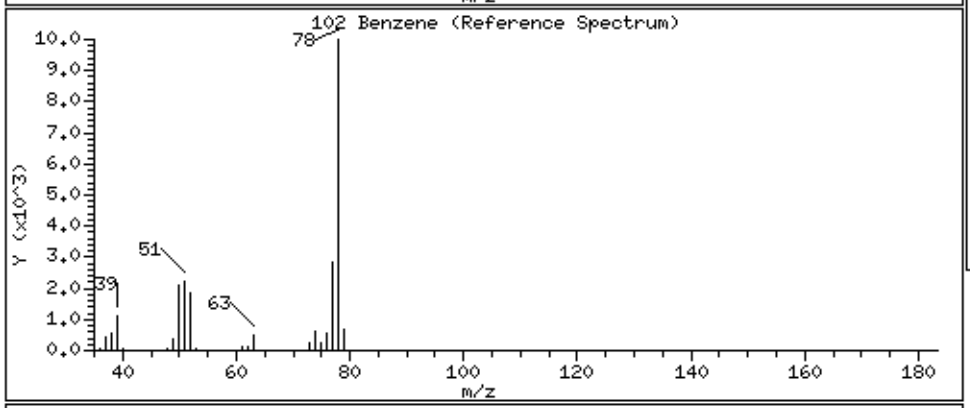
Concentration: 30.850 PPBV

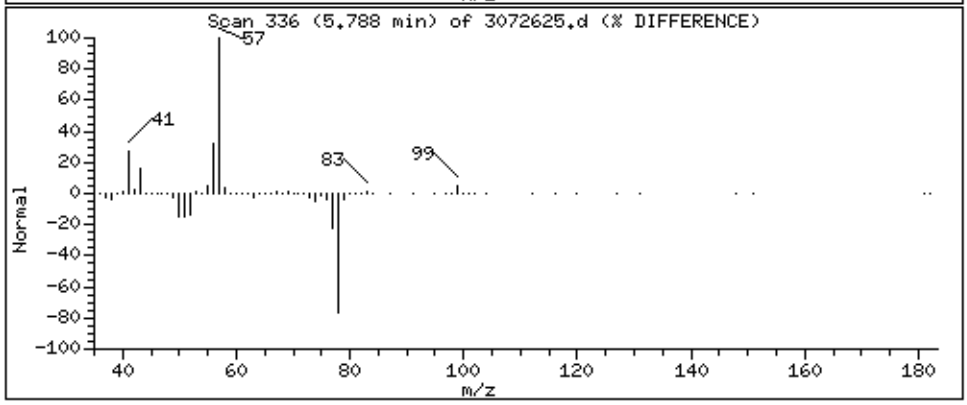












Data File: /chem/msd3.i/26JUL21.b/3072625.d

Date : 27-JUL-2021 01:51

Client ID:

Instrument: msd3.i

Sample Info: 200mL N1981

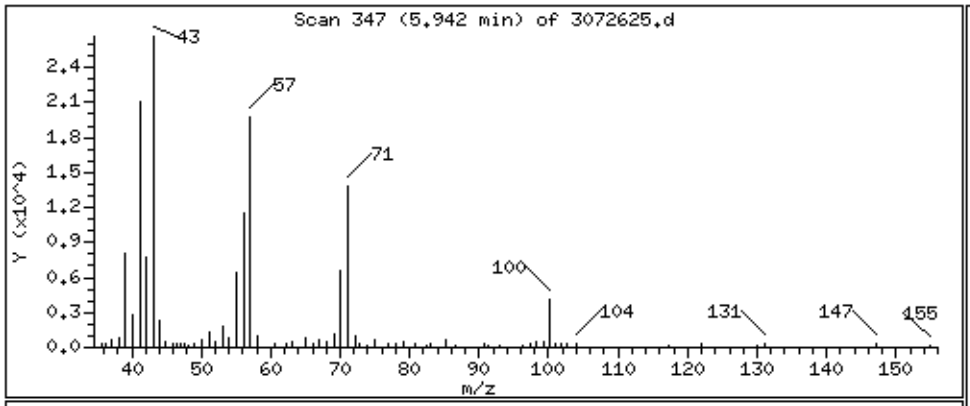
Operator: DF

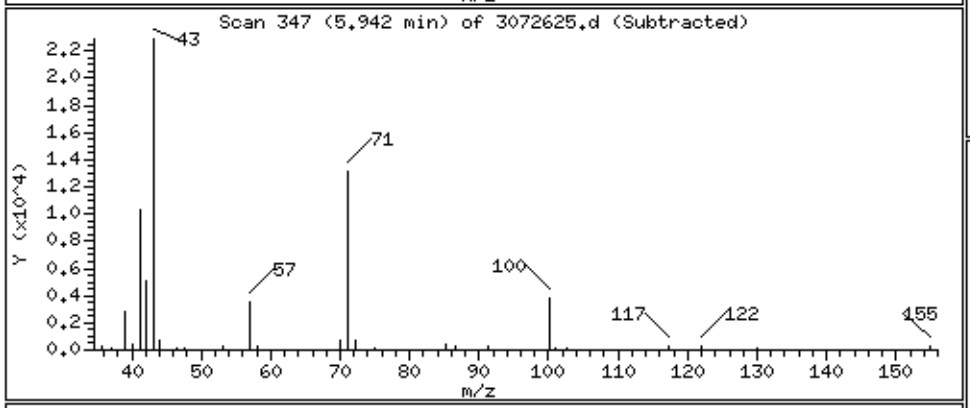
Column phase: RTX-624

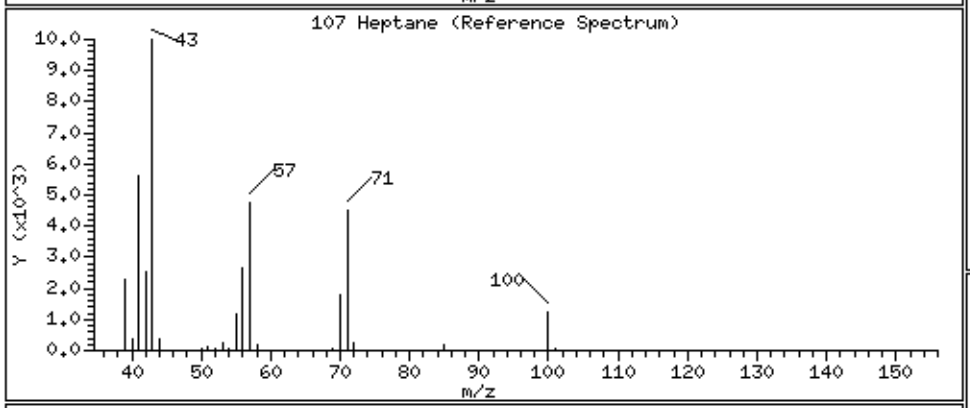
Column diameter: 0.25

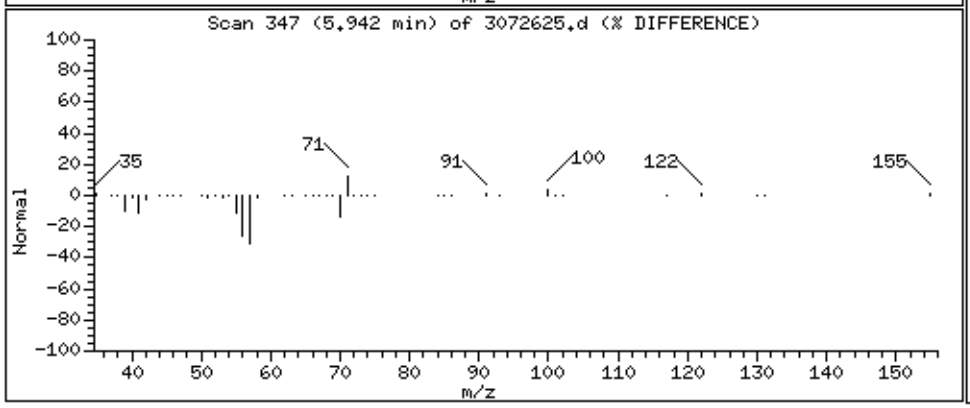
107 Heptane

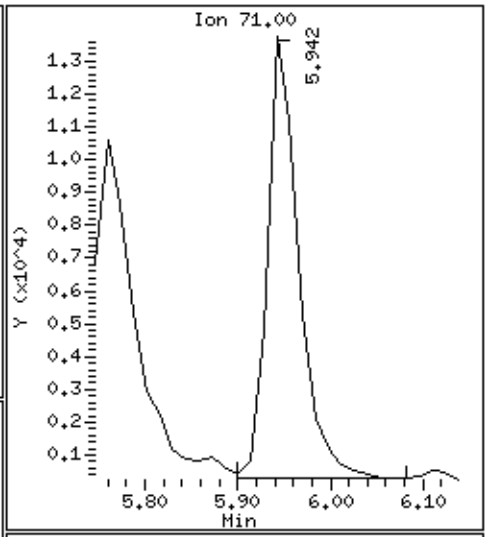
Concentration: 9.010 PPBV

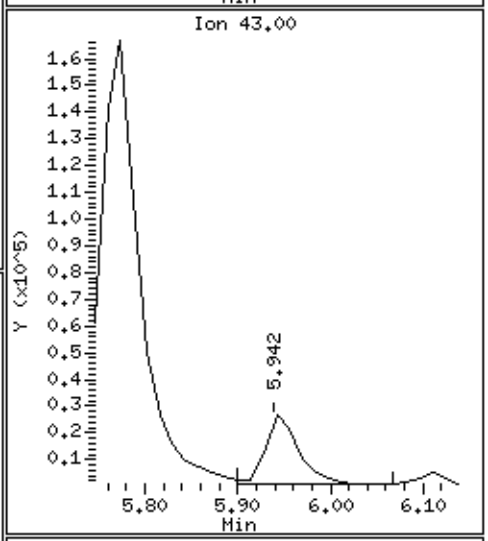


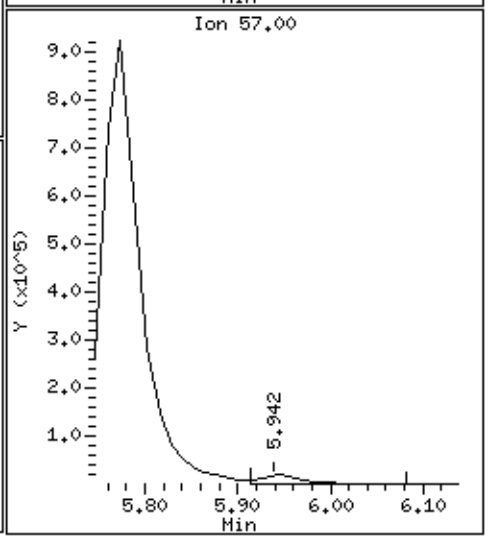












Data File: /chem/msd3.i/26JUL21.b/3072625.d

Date : 27-JUL-2021 01:51

Client ID:

Instrument: msd3.i

Sample Info: 200mL N1981

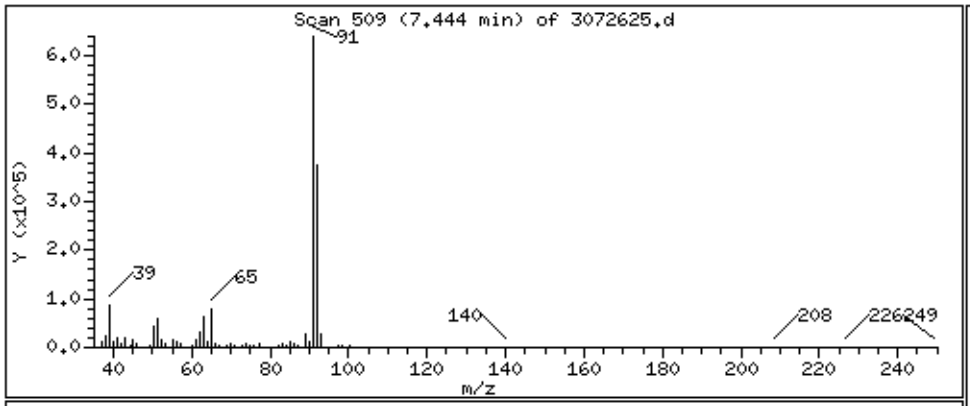
Operator: DF

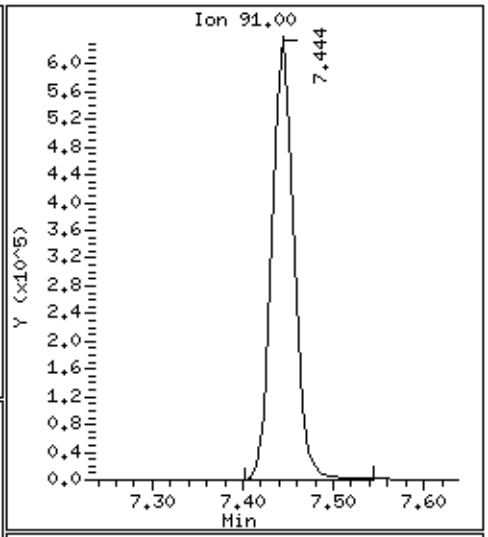
Column phase: RTX-624

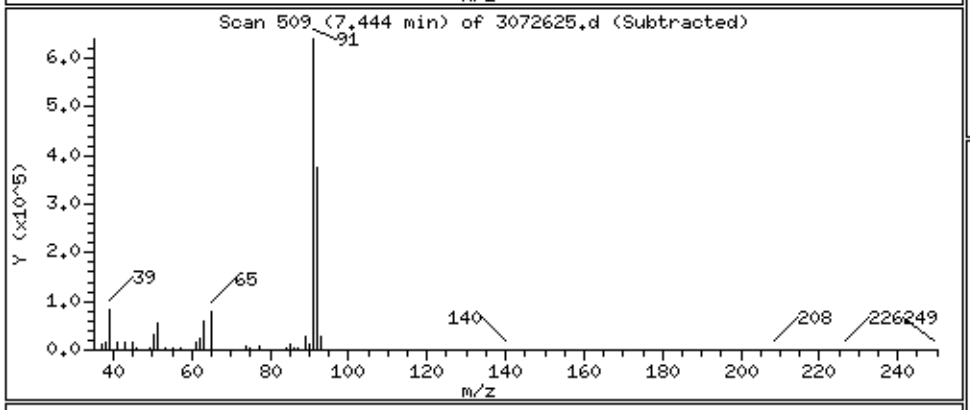
Column diameter: 0.25

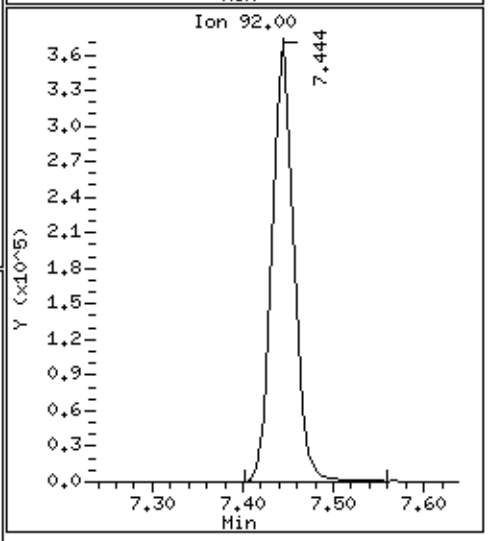
137 Toluene

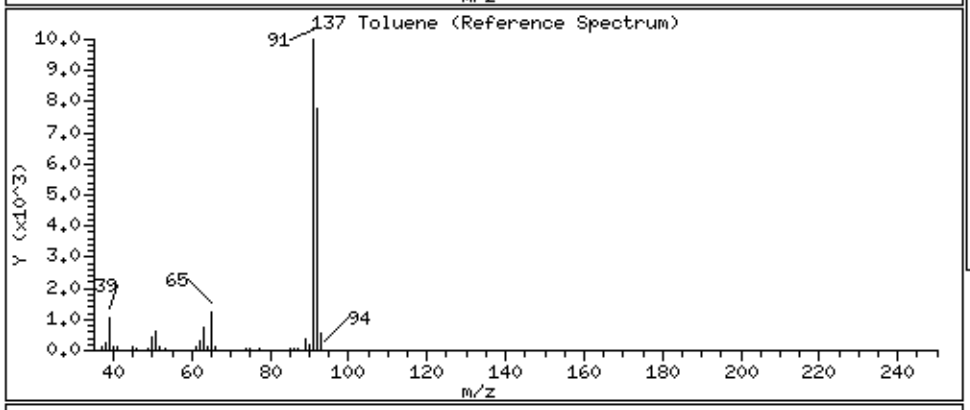
Concentration: 90.973 PPBV

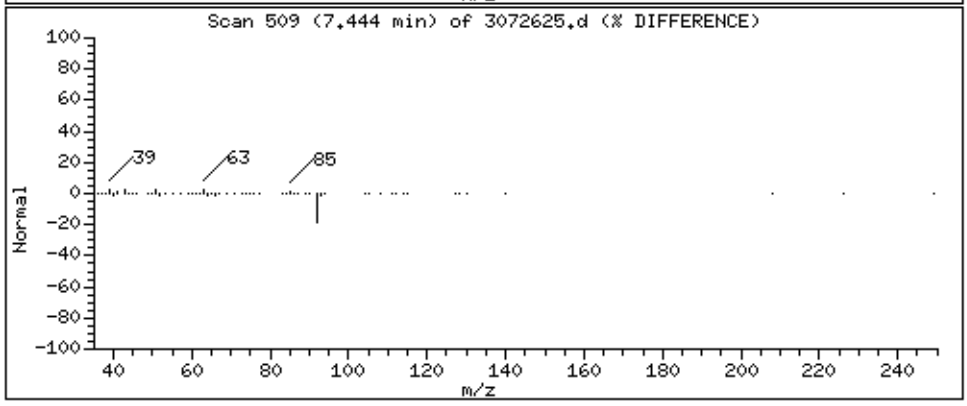












Data File: /chem/msd3.i/26JUL21.b/3072625.d

Date : 27-JUL-2021 01:51

Client ID:

Instrument: msd3.i

Sample Info: 200mL N1981

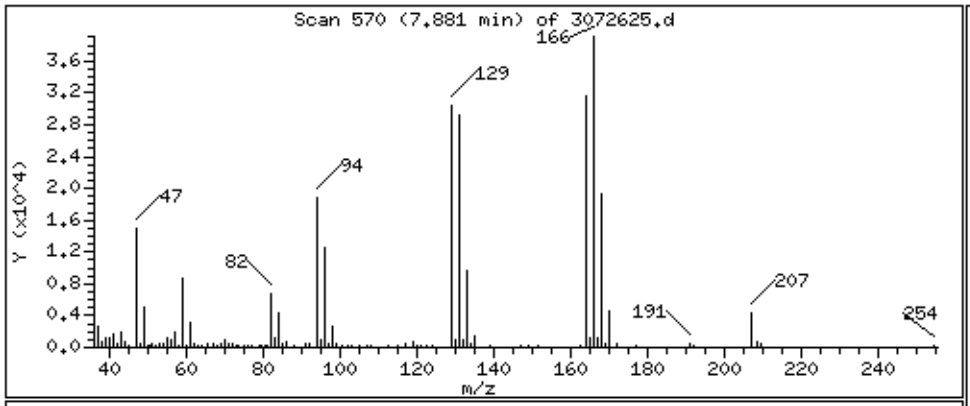
Operator: DF

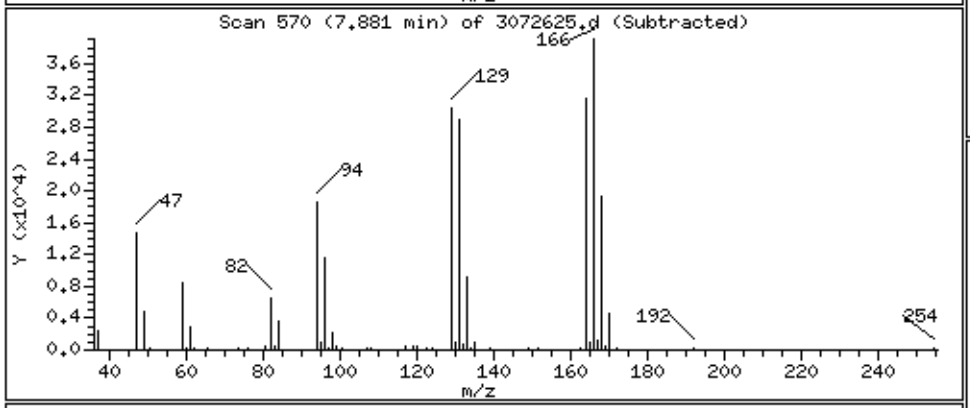
Column phase: RTX-624

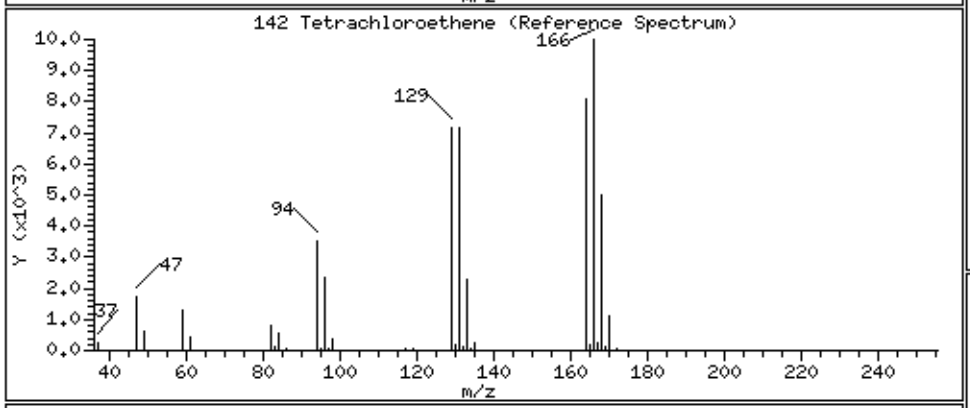
Column diameter: 0.25

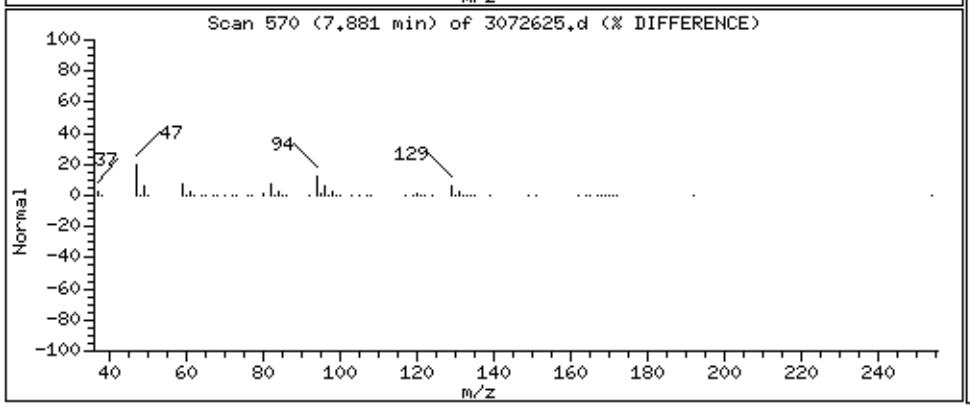
142 Tetrachloroethene

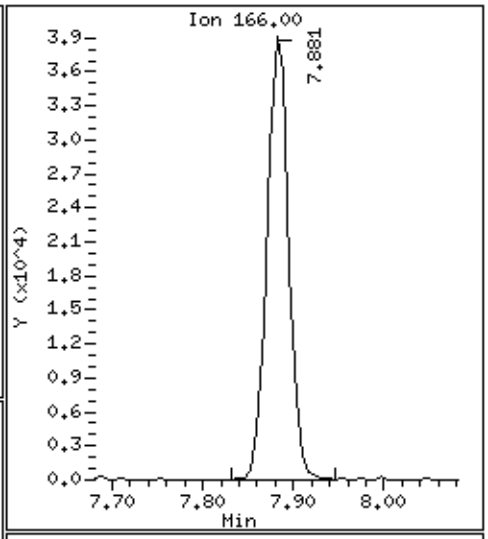
Concentration: 12.877 PPBV

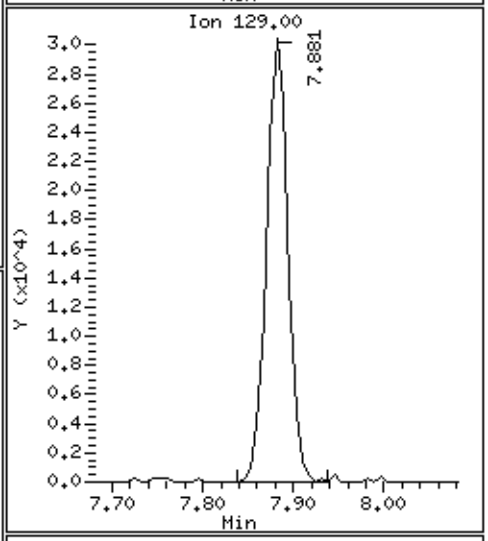


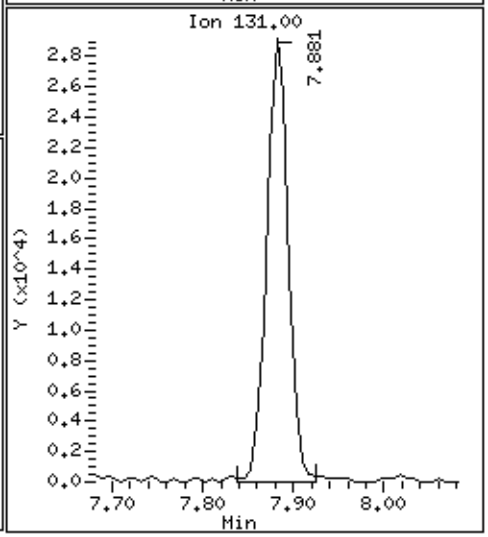












Data File: /chem/msd3.i/26JUL21.b/3072625.d

Date : 27-JUL-2021 01:51

Client ID:

Instrument: msd3.i

Sample Info: 200mL N1981

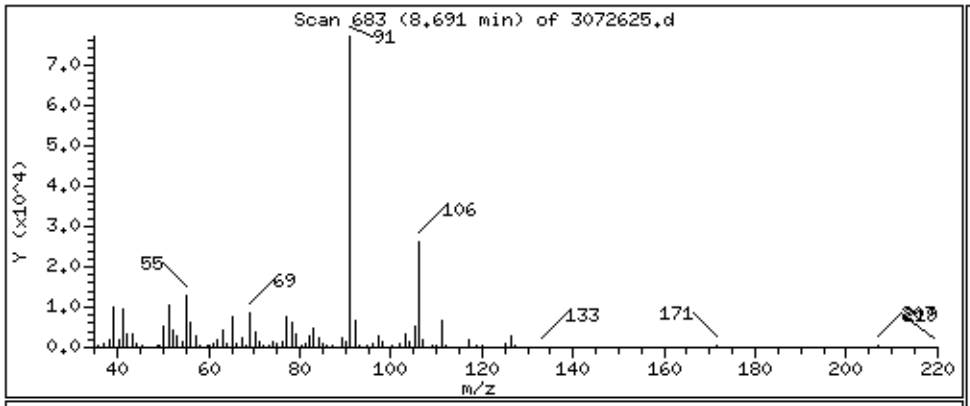
Operator: DF

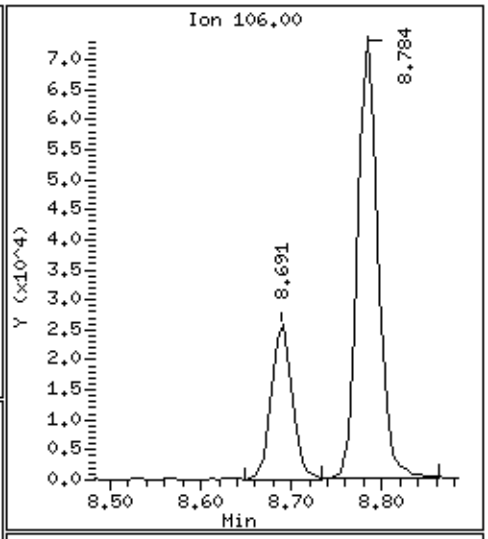
Column phase: RTX-624

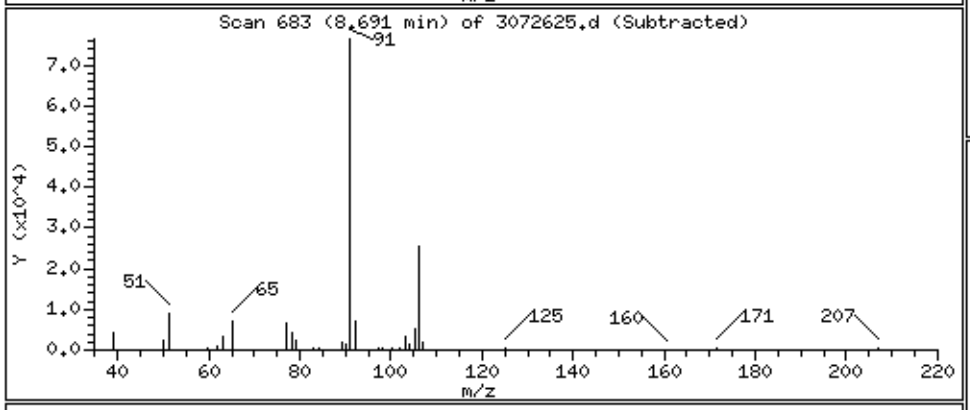
Column diameter: 0.25

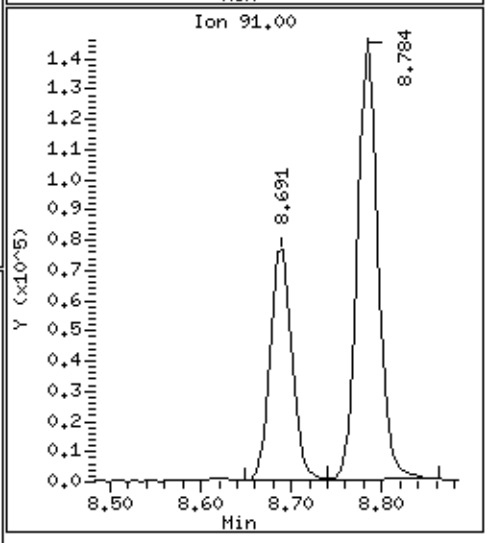
155 Ethyl Benzene

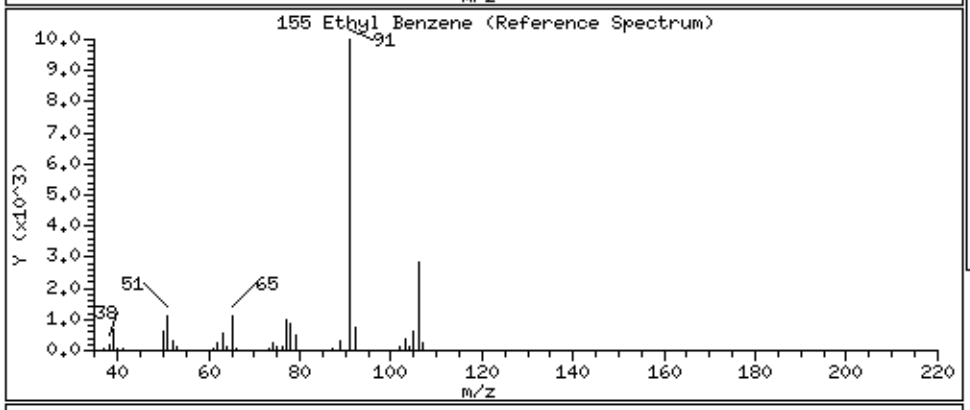
Concentration: 9.581 PPBV

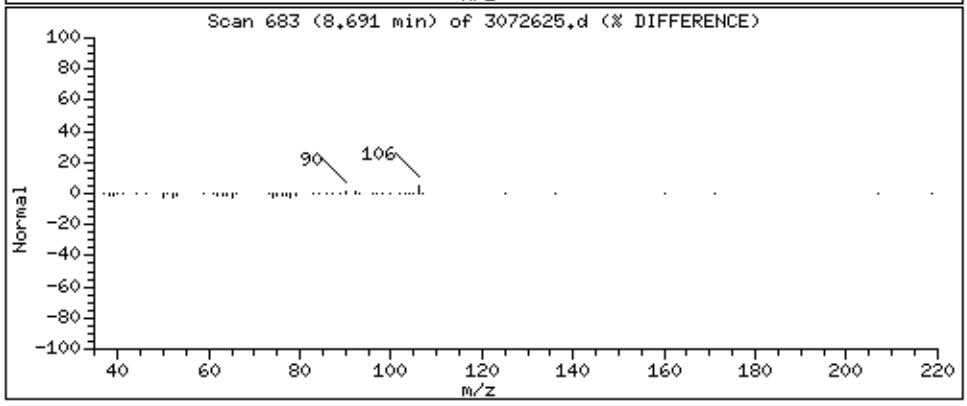












Data File: /chem/msd3.i/26JUL21.b/3072625.d

Date : 27-JUL-2021 01:51

Client ID:

Instrument: msd3.i

Sample Info: 200mL N1981

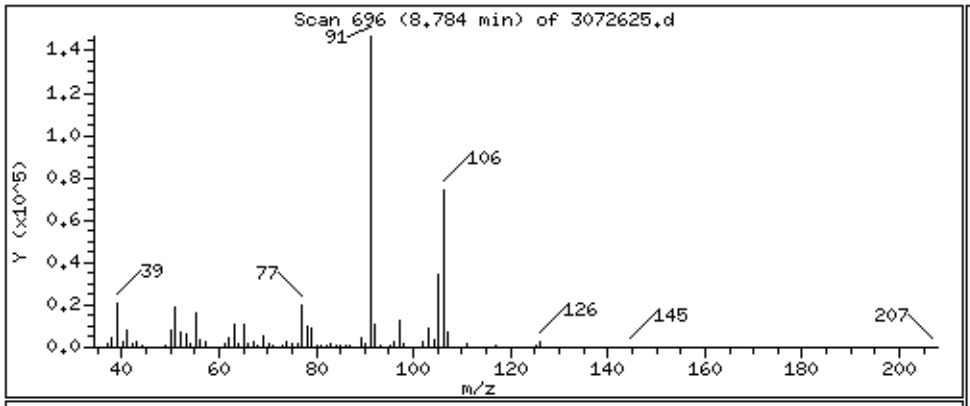
Operator: DF

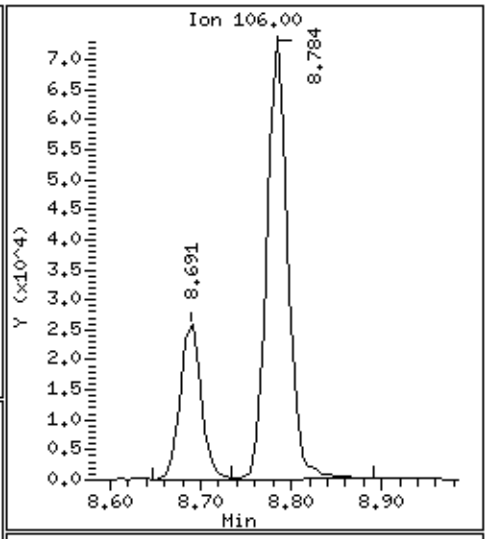
Column phase: RTX-624

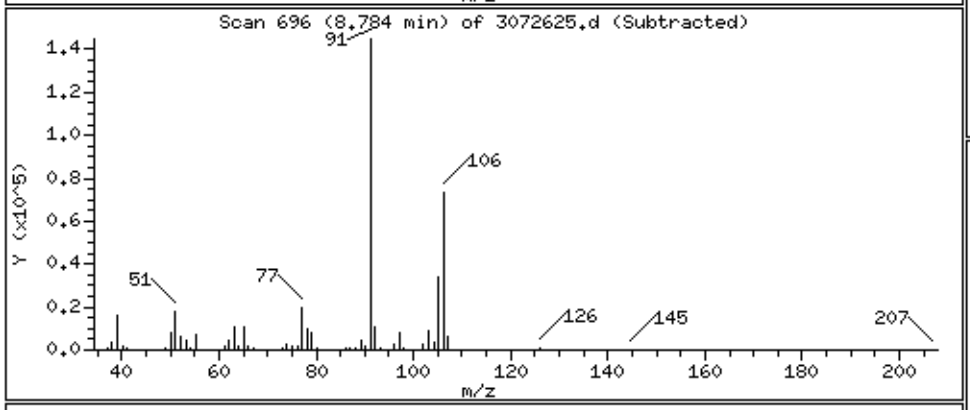
Column diameter: 0.25

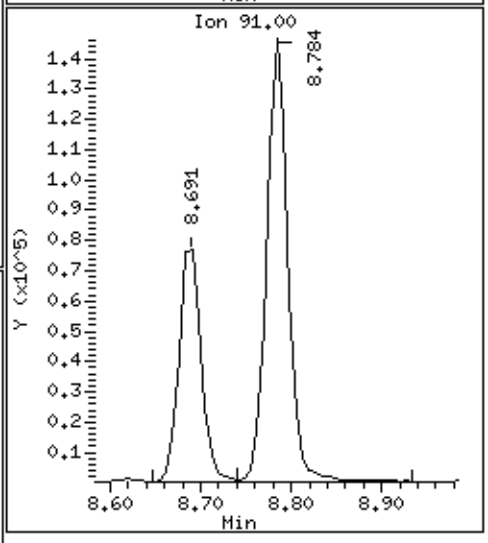
158 m,p-Xylene

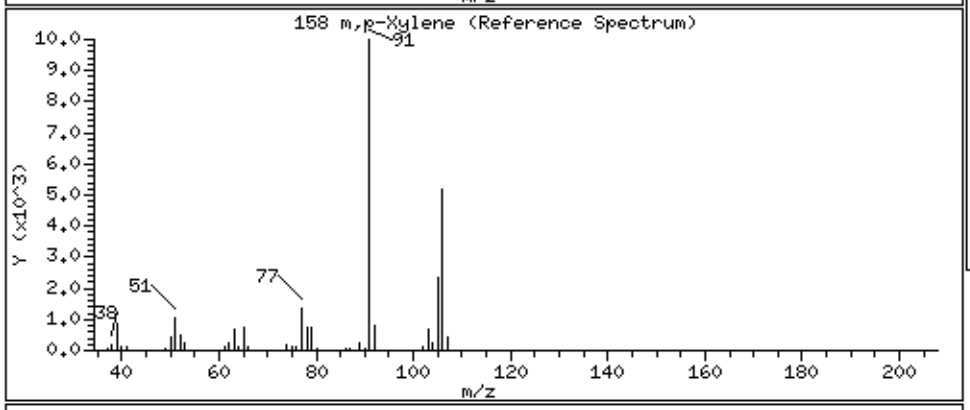
Concentration: 21.514 PPBV

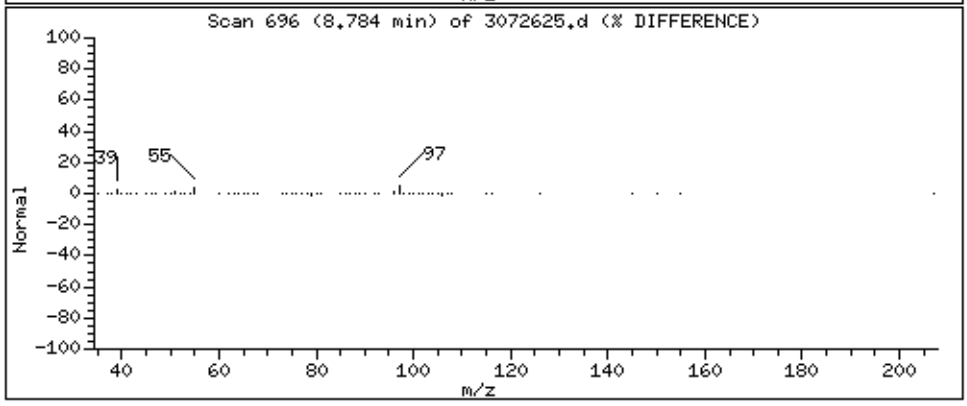












Data File: /chem/msd3.i/26JUL21.b/3072625.d

Date : 27-JUL-2021 01:51

Client ID:

Instrument: msd3.i

Sample Info: 200mL N1981

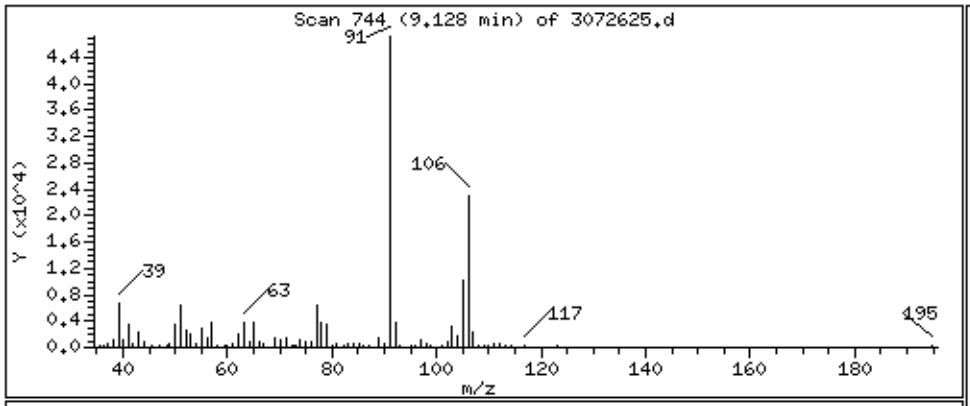
Operator: DF

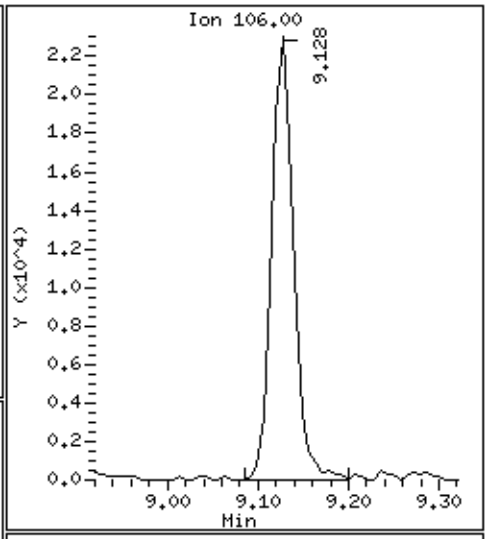
Column phase: RTX-624

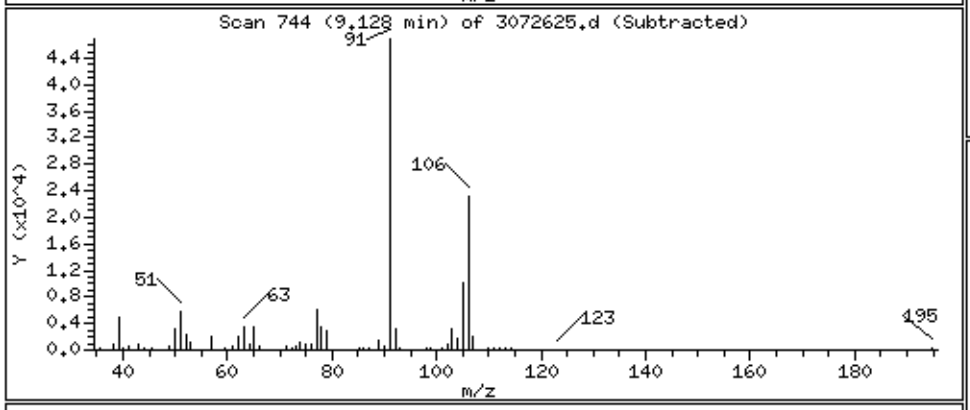
Column diameter: 0.25

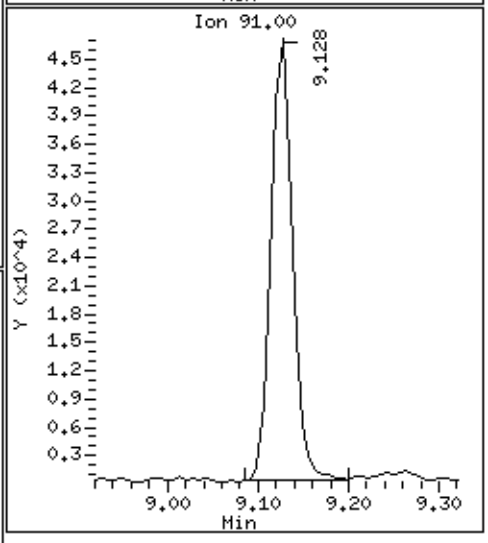
164 o-Xylene

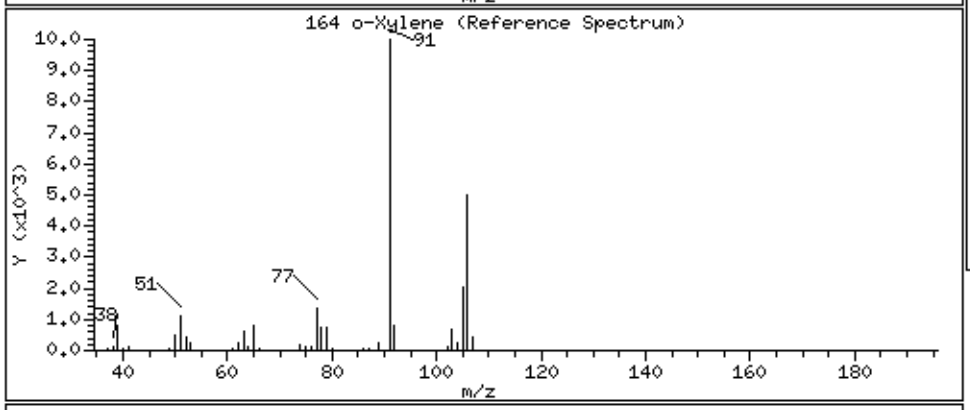
Concentration: 7.364 PPBV

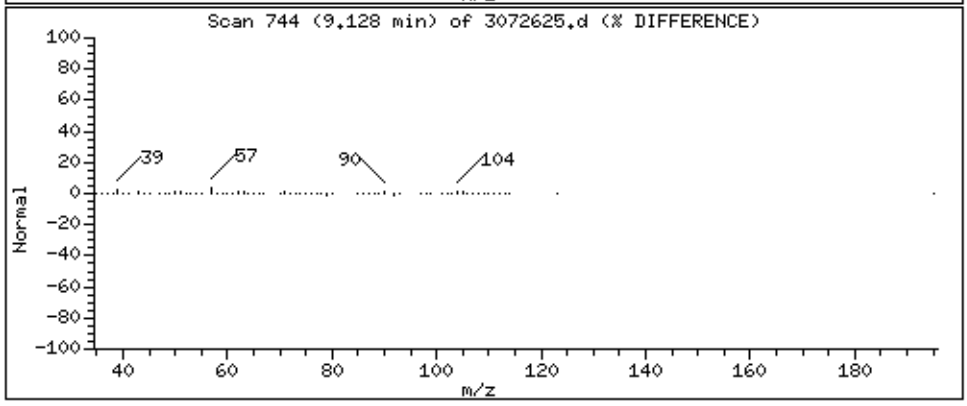












Data File: /chem/msd3.i/26JUL21.b/3072625.d

Date : 27-JUL-2021 01:51

Client ID:

Instrument: msd3.i

Sample Info: 200mL N1981

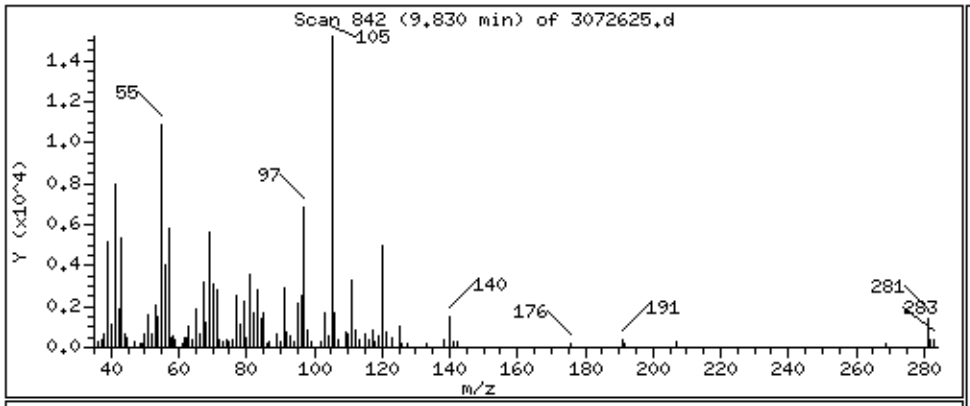
Operator: DF

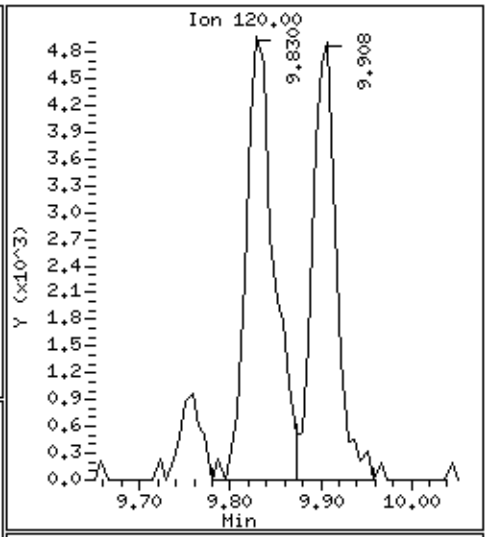
Column phase: RTX-624

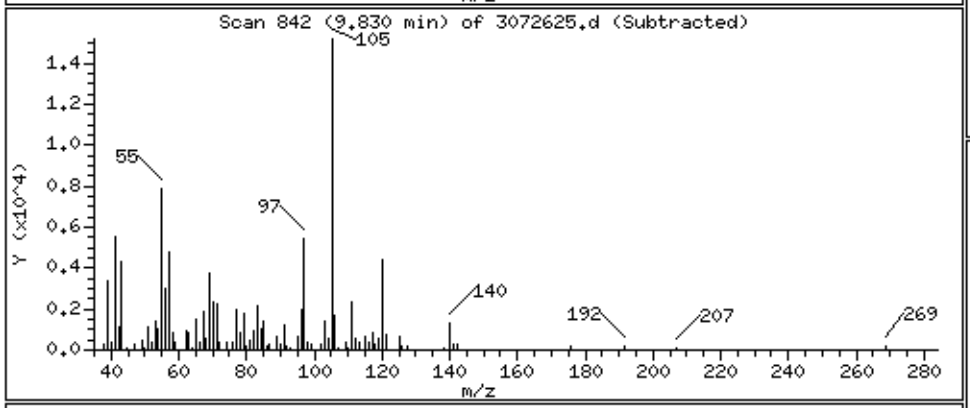
Column diameter: 0.25

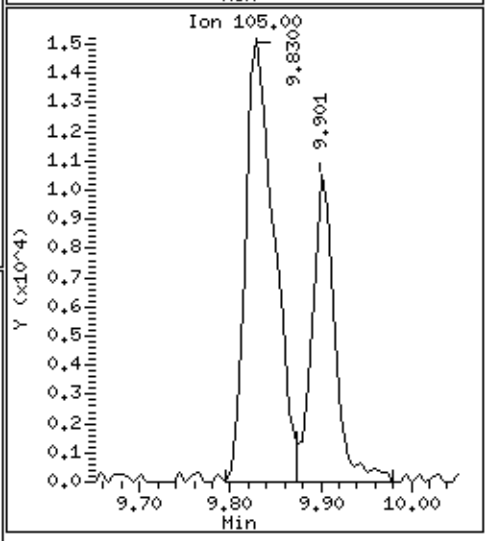
183 4-Ethyltoluene

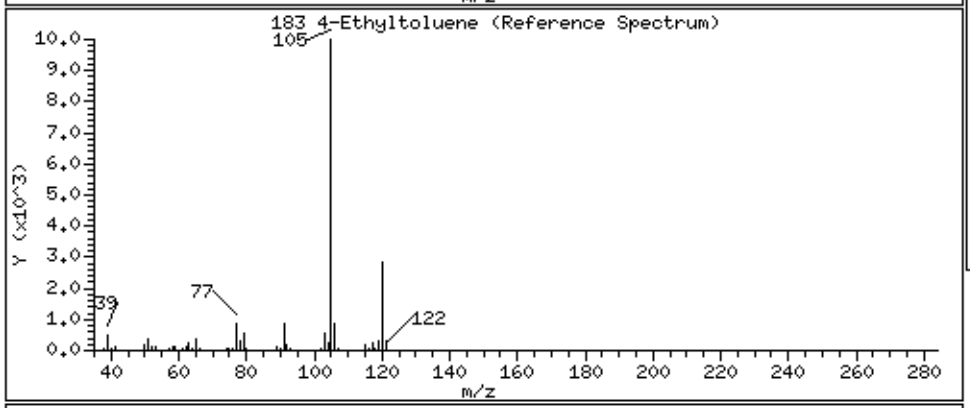
Concentration: 2.173 PPBV

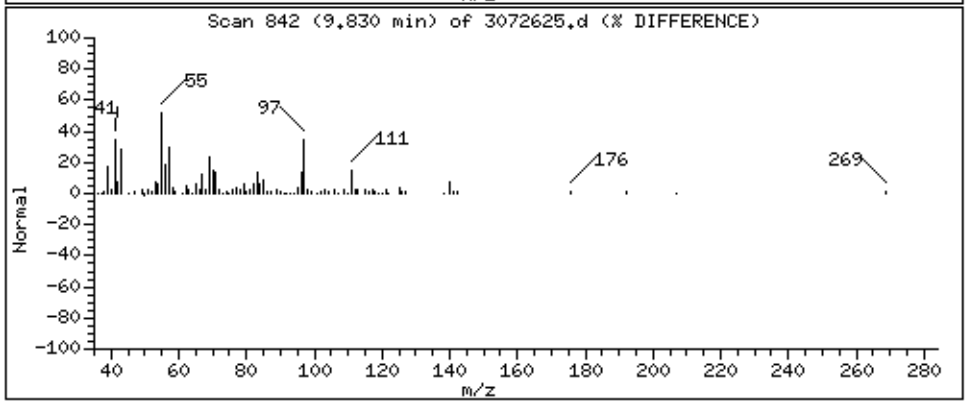












Data File: /chem/msd3.i/26JUL21.b/3072625.d

Date : 27-JUL-2021 01:51

Client ID:

Instrument: msd3.i

Sample Info: 200mL N1981

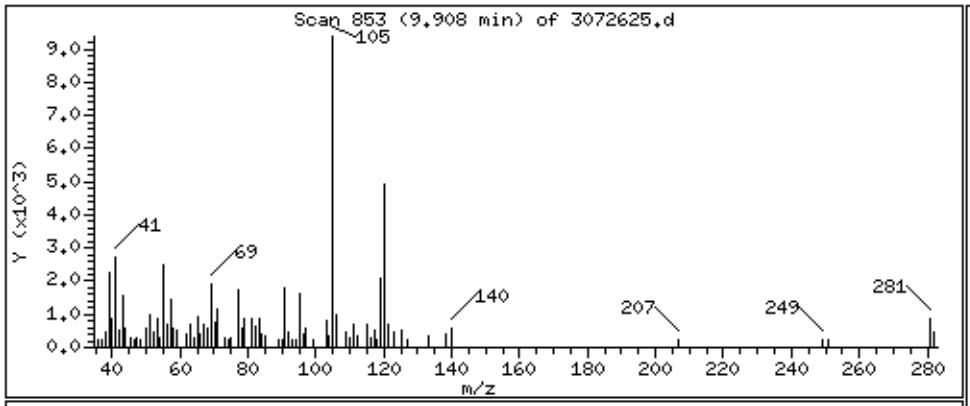
Operator: DF

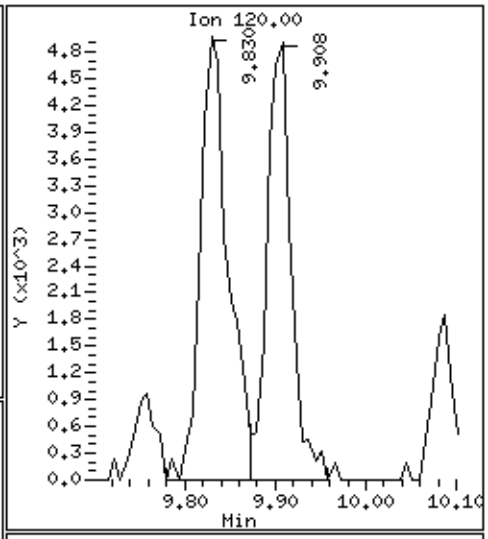
Column phase: RTX-624

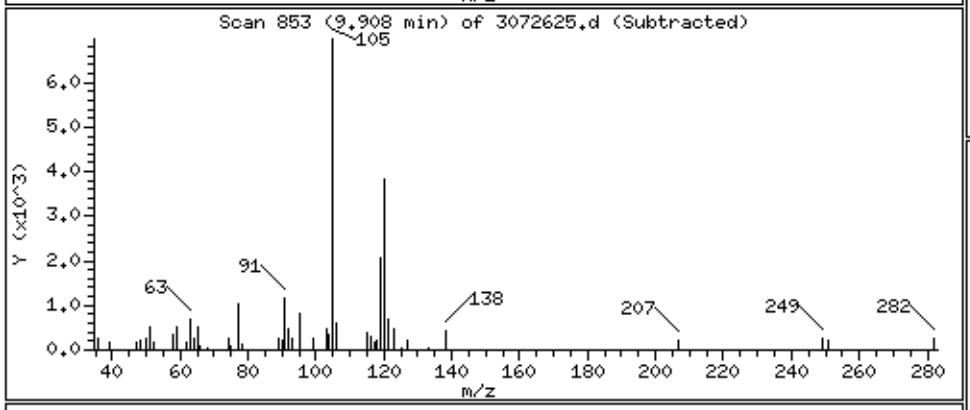
Column diameter: 0.25

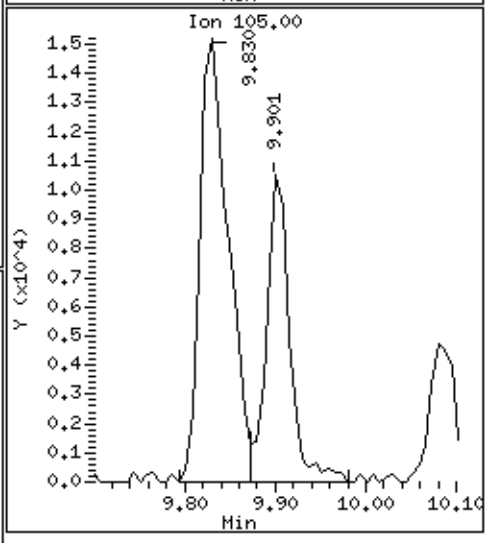
185 1,3,5-Trimethylbenzene

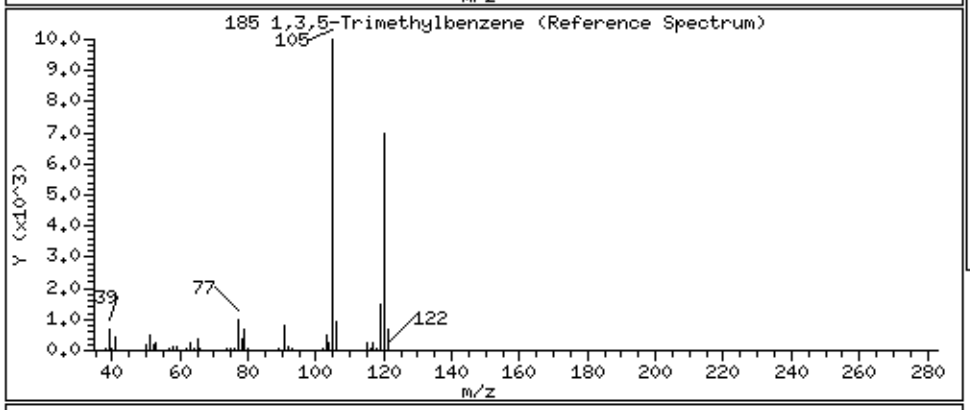
Concentration: 1.313 PPBV

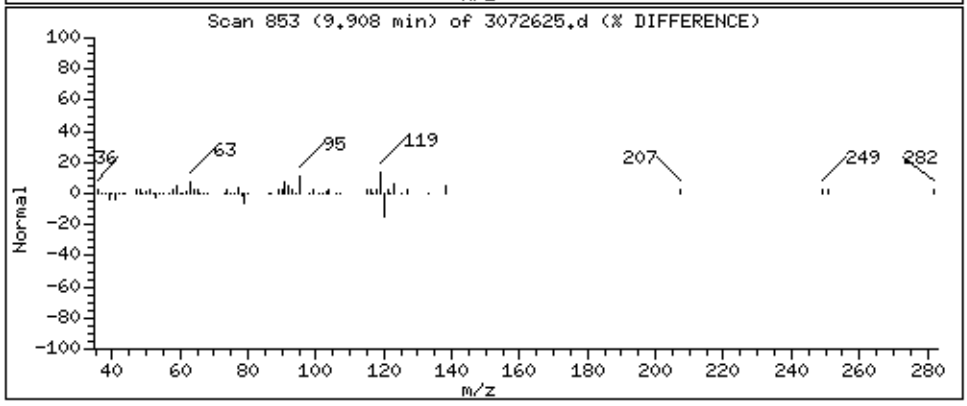












Data File: /chem/msd3.i/26JUL21.b/3072625.d

Date : 27-JUL-2021 01:51

Client ID:

Instrument: msd3.i

Sample Info: 200mL N1981

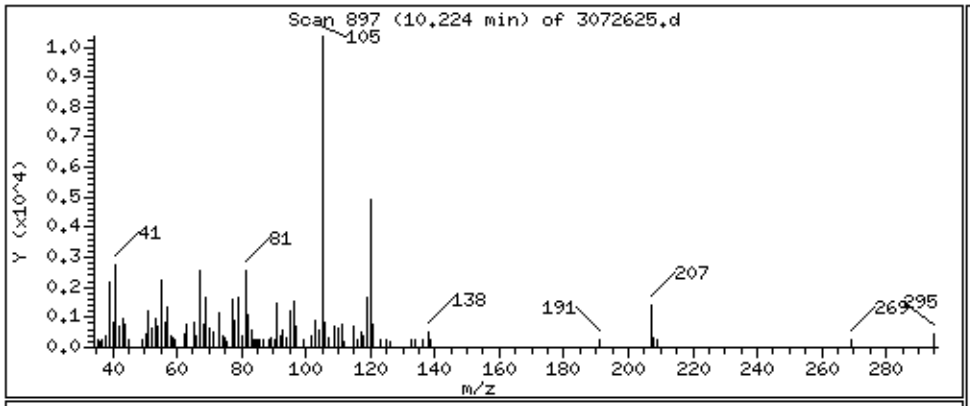
Operator: DF

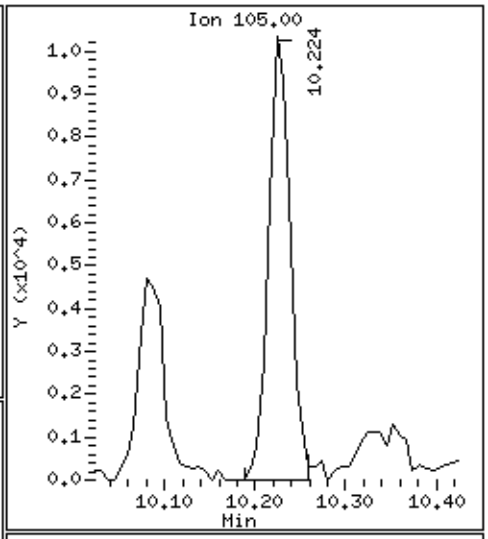
Column phase: RTX-624

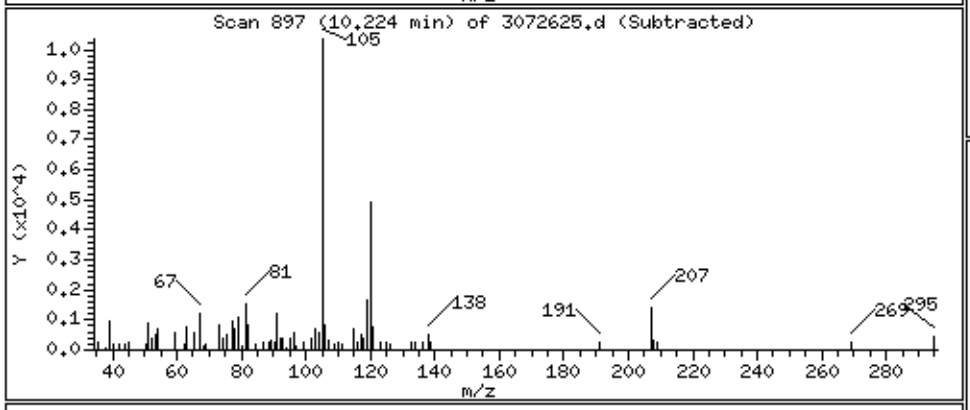
Column diameter: 0.25

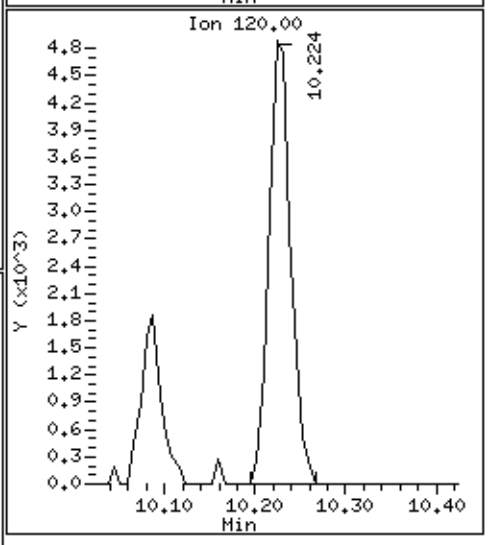
190 1,2,4-Trimethylbenzene

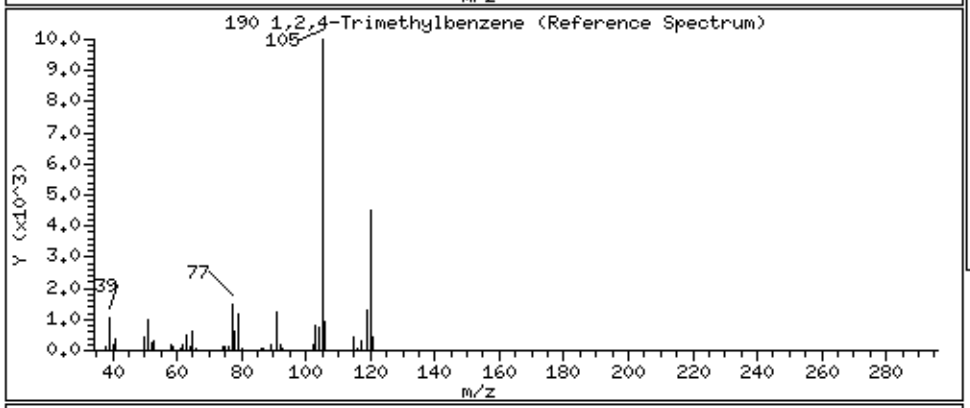
Concentration: 1.251 PPBV

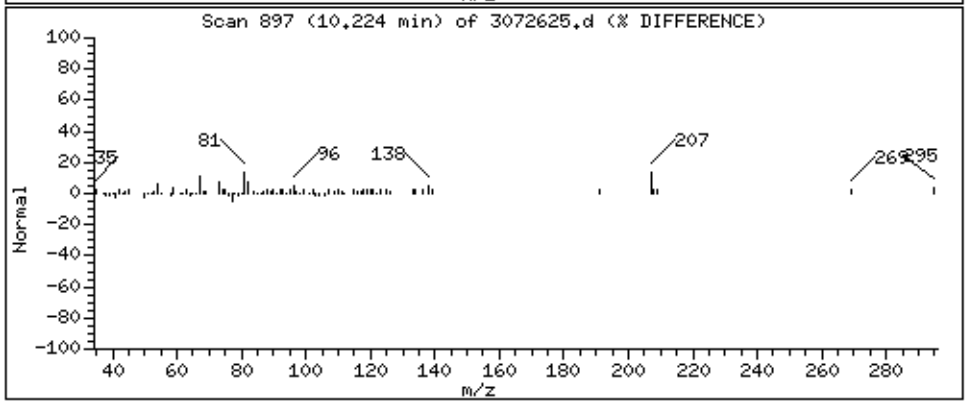












eurofins | Air Toxics

Client Sample ID: SG-VW60B-01

Lab ID#: 2107284-18A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3072630**	**Date of Collection: 7/14/21 8:07:00 AM**	
Dil. Factor:	**2.01**	**Date of Analysis: 7/27/21 08:06 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1,2-Tetrachloroethane	4.0	Not Detected	28	Not Detected
1,1,1-Trichloroethane	1.0	Not Detected	5.5	Not Detected
1,1,2,2-Tetrachloroethane	1.0	Not Detected	6.9	Not Detected
1,1,2-Trichloroethane	1.0	Not Detected	5.5	Not Detected
1,1-Dichloroethane	1.0	Not Detected	4.1	Not Detected
1,1-Dichloroethene	1.0	Not Detected	4.0	Not Detected
1,1-Difluoroethane	4.0	37	11	100
1,2,3-Trichloropropane	4.0	Not Detected	24	Not Detected
1,2,4-Trichlorobenzene	4.0	Not Detected	30	Not Detected
1,2,4-Trimethylbenzene	1.0	Not Detected	4.9	Not Detected
1,2-Dibromo-3-chloropropane	4.0	Not Detected	39	Not Detected
1,2-Dibromoethane (EDB)	1.0	Not Detected	7.7	Not Detected
1,2-Dichlorobenzene	1.0	Not Detected	6.0	Not Detected
1,2-Dichloroethane	1.0	Not Detected	4.1	Not Detected
1,2-Dichloropropane	1.0	Not Detected	4.6	Not Detected
1,3,5-Trimethylbenzene	1.0	Not Detected	4.9	Not Detected
1,3-Butadiene	1.0	Not Detected	2.2	Not Detected
1,3-Dichlorobenzene	1.0	Not Detected	6.0	Not Detected
1,4-Dichlorobenzene	1.0	Not Detected	6.0	Not Detected
1,4-Dioxane	4.0	Not Detected	14	Not Detected
2,2,4-Trimethylpentane	1.0	Not Detected	4.7	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.0	Not Detected	12	Not Detected
2-Hexanone	4.0	Not Detected	16	Not Detected
2-Propanol	4.0	15	9.9	37
3-Chloropropene	4.0	Not Detected	12	Not Detected
4-Ethyltoluene	1.0	Not Detected	4.9	Not Detected
4-Methyl-2-pentanone	1.0	Not Detected	4.1	Not Detected
Acetone	10	Not Detected	24	Not Detected
Acrolein	4.0	Not Detected	9.2	Not Detected
Acrylonitrile	4.0	Not Detected	8.7	Not Detected
alpha-Chlorotoluene	1.0	Not Detected	5.2	Not Detected
Benzene	1.0	Not Detected	3.2	Not Detected
Bromodichloromethane	1.0	Not Detected	6.7	Not Detected
Bromoform	1.0	Not Detected	10	Not Detected
Bromomethane	10	Not Detected	39	Not Detected
Carbon Disulfide	4.0	Not Detected	12	Not Detected
Carbon Tetrachloride	1.0	Not Detected	6.3	Not Detected
Chlorobenzene	1.0	Not Detected	4.6	Not Detected
Chloroethane	4.0	Not Detected	11	Not Detected
Chloroform	1.0	Not Detected	4.9	Not Detected
Chloromethane	10	Not Detected	21	Not Detected
cis-1,2-Dichloroethene	1.0	Not Detected	4.0	Not Detected

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Client Sample ID: SG-VW60B-01

Lab ID#: 2107284-18A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3072630**	**Date of Collection:**	**7/14/21 8:07:00 AM**
Dil. Factor:	**2.01**	**Date of Analysis:**	**7/27/21 08:06 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,3-Dichloropropene	1.0	Not Detected	4.6	Not Detected
Cumene	1.0	Not Detected	4.9	Not Detected
Cyclohexane	1.0	Not Detected	3.4	Not Detected
Dibromochloromethane	1.0	Not Detected	8.6	Not Detected
Dibromomethane	4.0	Not Detected	28	Not Detected
Ethanol	10	Not Detected	19	Not Detected
Ethyl Acetate	4.0	Not Detected	14	Not Detected
Ethyl Benzene	1.0	Not Detected	4.4	Not Detected
Ethyl-tert-butyl ether	4.0	Not Detected	17	Not Detected
Freon 11	1.0	Not Detected	5.6	Not Detected
Freon 12	1.0	2.6	5.0	13
Freon 113	1.0	Not Detected	7.7	Not Detected
Freon 114	1.0	Not Detected	7.0	Not Detected
Freon 134a	4.0	Not Detected	17	Not Detected
Heptane	1.0	Not Detected	4.1	Not Detected
Hexachlorobutadiene	4.0	Not Detected	43	Not Detected
Hexachloroethane	4.0	Not Detected	39	Not Detected
Hexane	1.0	62	3.5	220
Iodomethane	10	Not Detected	58	Not Detected
Isopropyl ether	4.0	Not Detected	17	Not Detected
m,p-Xylene	1.0	Not Detected	4.4	Not Detected
Methyl tert-butyl ether	4.0	Not Detected	14	Not Detected
Methylene Chloride	10	Not Detected	35	Not Detected
Naphthalene	2.0	Not Detected	10	Not Detected
o-Xylene	1.0	Not Detected	4.4	Not Detected
Propylbenzene	1.0	Not Detected	4.9	Not Detected
Propylene	4.0	Not Detected	6.9	Not Detected
Styrene	1.0	Not Detected	4.3	Not Detected
tert-Amyl methyl ether	4.0	Not Detected	17	Not Detected
tert-Butyl alcohol	4.0	Not Detected	12	Not Detected
Tetrachloroethene	1.0	21	6.8	140
Tetrahydrofuran	1.0	Not Detected	3.0	Not Detected
Toluene	1.0	Not Detected	3.8	Not Detected
TPH ref. to Gasoline (MW=100)	100	Not Detected	410	Not Detected
trans-1,2-Dichloroethene	1.0	Not Detected	4.0	Not Detected
trans-1,3-Dichloropropene	1.0	Not Detected	4.6	Not Detected
Trichloroethene	1.0	Not Detected	5.4	Not Detected
Vinyl Acetate	4.0	Not Detected	14	Not Detected
Vinyl Bromide	4.0	Not Detected	18	Not Detected
Vinyl Chloride	1.0	Not Detected	2.6	Not Detected

Container Type: 1 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: SG-VW60B-01

Lab ID#: 2107284-18A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3072630**	**Date of Collection: 7/14/21 8:07:00 AM**	
Dil. Factor:	**2.01**	**Date of Analysis: 7/27/21 08:06 AM**	

Surrogates	%Recovery	Method Limits
Toluene-d8	89	70-130
1,2-Dichloroethane-d4	98	70-130
4-Bromofluorobenzene	98	70-130

US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msd3.i/26JUL21.b/3072630.d
Lab Smp Id: 2107284-18A
Inj Date : 27-JUL-2021 08:06
Operator : LD Inst ID: msd3.i
Smp Info : 200mL O0825
Misc Info : 4.9 Hg->10 psi
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msd3.i/26JUL21.b/321q0622a.m
Meth Date : 28-Jul-2021 12:16 uexa Quant Type: ISTD
Cal Date : 23-JUN-2021 00:09 Cal File: 3062223.d
Als bottle: 9
Dil Factor: 2.01000
Integrator: HP RTE Compound Sublist: AEC25677.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE		(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 90 Bromochloromethane							CAS #: 74-97-5	
5.284	5.284 (1.000)	130	228555	25.0000			80.00- 120.00	100.00
5.284	5.284 (1.000)	128	177583				48.46- 108.46	77.70
5.284	5.284 (1.000)	49	325389				120.39- 180.39	142.37
* 108 1,4-Difluorobenzene							CAS #: 540-36-3	
6.180	6.166 (1.000)	114	802795	25.0000			80.00- 120.00	100.00
6.180	6.166 (1.000)	88	119317				0.00- 45.52	14.86
* 153 Chlorobenzene-d5							CAS #: 3114-55-4	
8.619	8.612 (1.000)	117	668523	25.0000			80.00- 120.00	100.00
8.619	8.612 (1.000)	82	355078				25.46- 85.46	53.11
$ 104 1,2-Dichloroethane-d4							CAS #: 17060-07-0	
5.816	5.816 (1.101)	65	308922	24.5613	24.561		80.00- 120.00	100.00
5.816	5.816 (1.101)	67	151859				21.66- 81.66	49.16
$ 134 Toluene-d8							CAS #: 2037-26-5	
7.387	7.387 (1.195)	98	739756	22.3723	22.372		80.00- 120.00	100.00
7.387	7.387 (1.195)	70	82822				0.00- 41.47	11.20

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 134 Toluene-d8 (continued)							
7.387	7.387 (1.195)	100	485977			36.47- 96.47	65.69
$ 170 4-Bromofluorobenzene					CAS #: 460-00-4		
9.600	9.601 (1.114)	174	435046	24.6029	24.603	80.00- 120.00	100.00
9.600	9.601 (1.114)	95	494491			93.06- 153.06	113.66
9.600	9.601 (1.114)	176	402770			62.87- 122.87	92.58
7 1,1-Difluoroethane					CAS #: 75-37-6		
1.450	1.451 (0.274)	65	66172	18.3878	36.960	80.00- 120.00	100.00
1.492	1.493 (0.282)	51	279313			321.86- 381.86	422.10
1.450	1.451 (0.274)	47	38856			45.34- 105.34	58.72
8 Freon 12					CAS #: 75-71-8		
1.464	1.465 (0.277)	85	20973	1.31728	2.648	80.00- 120.00	100.00
1.464	1.465 (0.277)	87	7435			2.63- 62.63	35.45
52 2-Propanol					CAS #: 67-63-0		
3.423	3.395 (0.648)	45	102352	7.42614	14.926	80.00- 120.00	100.00
3.423	3.395 (0.648)	43	21192			0.00- 48.61	20.71
67 Hexane					CAS #: 110-54-3		
4.179	4.179 (0.791)	57	391669	30.9458	62.201	80.00- 120.00	100.00
4.179	4.179 (0.791)	43	242554			32.99- 92.99	61.93
4.179	4.179 (0.791)	86	50289			0.00- 42.56	12.84
142 Tetrachloroethene					CAS #: 127-18-4		
7.881	7.881 (0.914)	166	108767	10.3853	20.874	80.00- 120.00	100.00
7.881	7.881 (0.914)	129	83180			48.71- 108.71	76.48
7.881	7.881 (0.914)	131	79623			46.55- 106.55	73.20

Report Date: 28-Jul-2021 14:30

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd3.i
Lab File ID: 3072630.d
Lab Smp Id: 2107284-18A
Analysis Type: VOA
Quant Type: ISTD
Operator: LD
Method File: /chem/msd3.i/26JUL21.b/321q0622a.m
Misc Info: 4.9 Hg->10 psi

Calibration Date: 26-JUL-2021
Calibration Time: 10:10
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	263983	158390	369576	228555	-13.42
108 1,4-Difluorobenze	833448	500069	1166827	802795	-3.68
153 Chlorobenzene-d5	741338	444803	1037873	668523	-9.82

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.28	4.95	5.61	5.28	-0.00
108 1,4-Difluorobenze	6.17	5.84	6.50	6.18	0.22
153 Chlorobenzene-d5	8.61	8.28	8.94	8.62	0.08

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 28-Jul-2021 14:30

US32TAR1

RECOVERY REPORT

Client Name: Client SDG: 26JUL21
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 2107284-18A
Level: LOW Operator: LD
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT20_new.spk Quant Type: ISTD
Sublist File: AEC25677.sub
Method File: /chem/msd3.i/26JUL21.b/321q0622a.m
Misc Info: 4.9 Hg->10 psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 104 1,2-Dichloroethan	25.000	24.561	98.25	70-130
$ 134 Toluene-d8	25.000	22.372	89.49	70-130
$ 170 4-Bromofluorobenz	25.000	24.603	98.41	70-130

Data File: /chem/msd3.i/26JUL21.b/3072630.d

Date : 27-JUL-2021 08:06

Client ID:

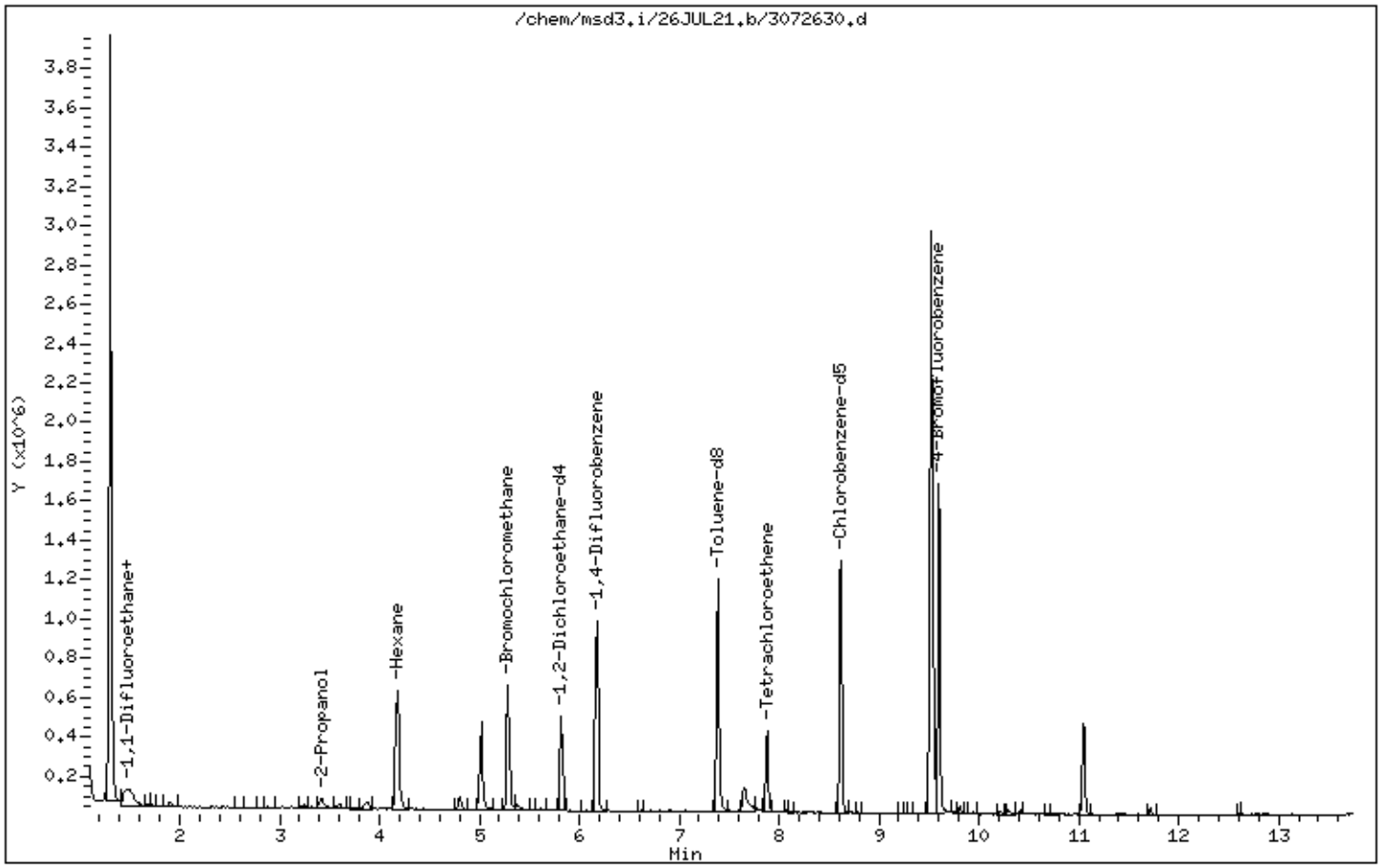
Instrument: msd3.i

Sample Info: 200mL 00825

Operator: LD

Column phase: RTX-624

Column diameter: 0.25



Data File: /chem/msd3.i/26JUL21.b/3072630.d

Date : 27-JUL-2021 08:06

Client ID:

Instrument: msd3.i

Sample Info: 200mL 00825

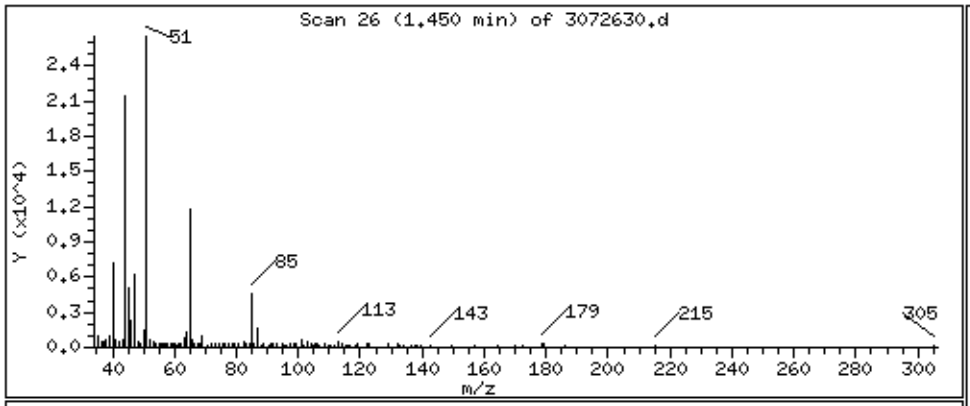
Operator: LD

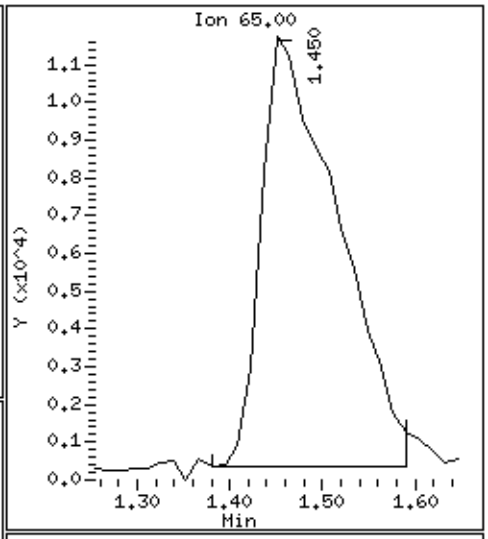
Column phase: RTX-624

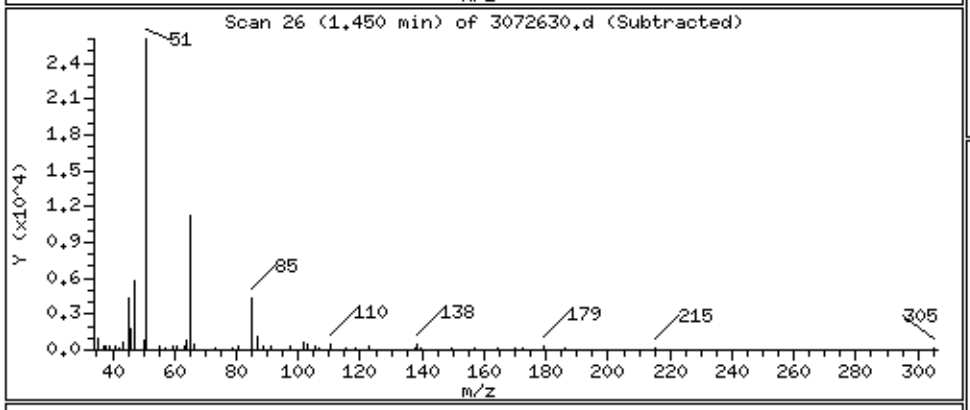
Column diameter: 0.25

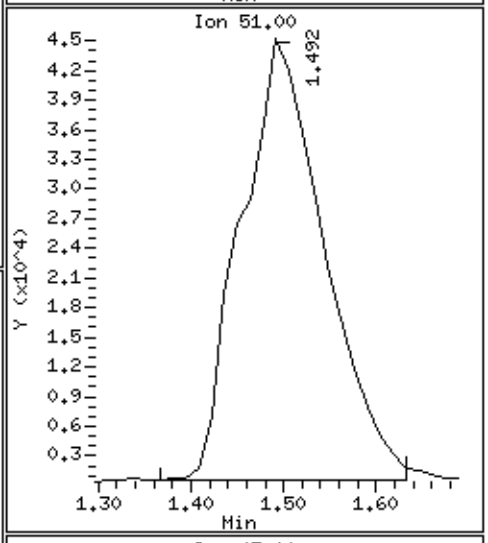
7 1,1-Difluoroethane

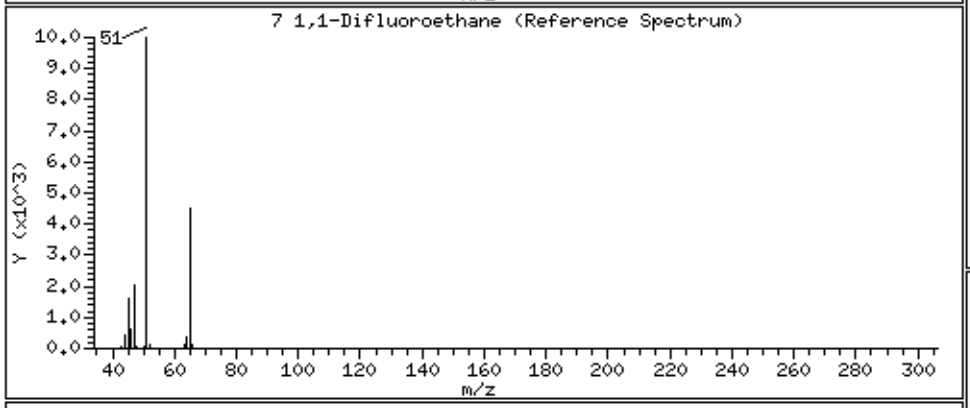
Concentration: 36.960 PPBV

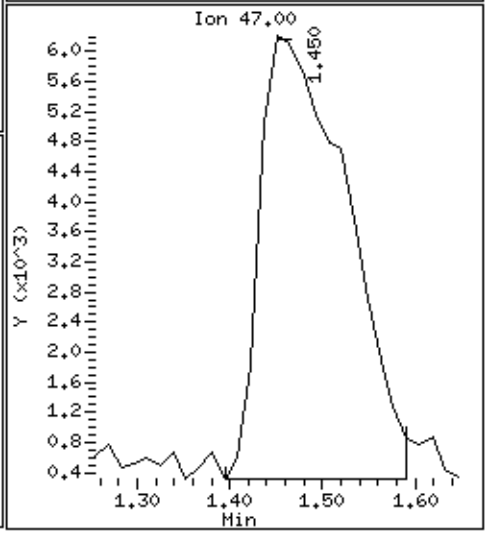


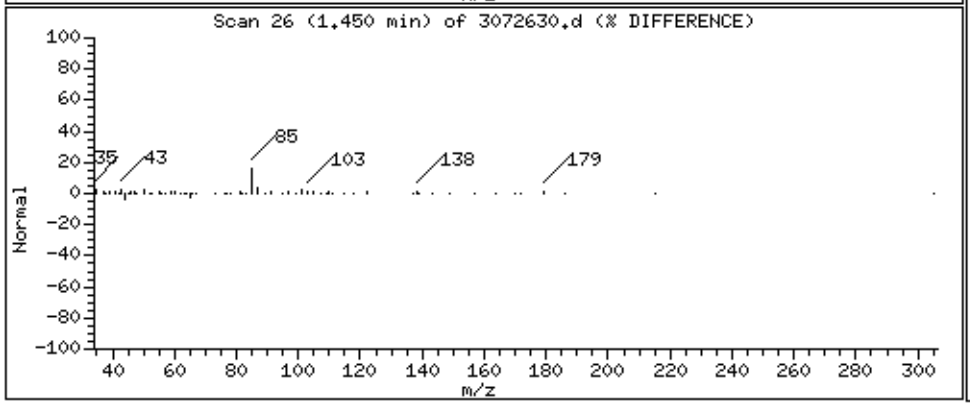












Data File: /chem/msd3.i/26JUL21.b/3072630.d

Date : 27-JUL-2021 08:06

Client ID:

Instrument: msd3.i

Sample Info: 200mL 00825

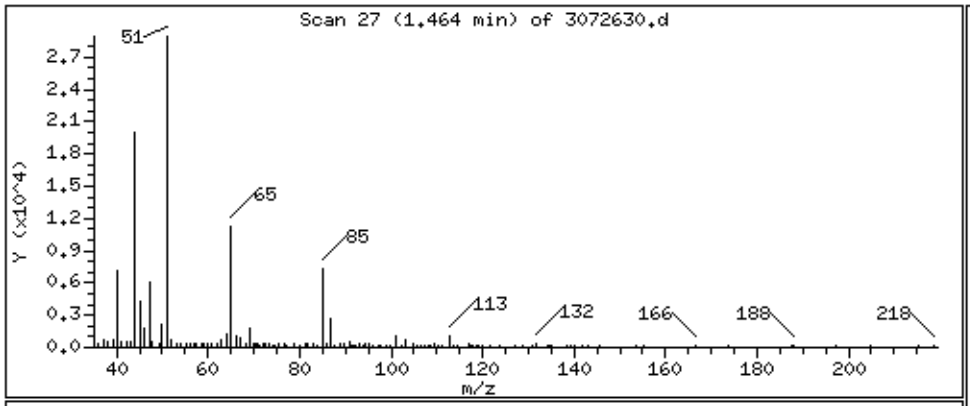
Operator: LD

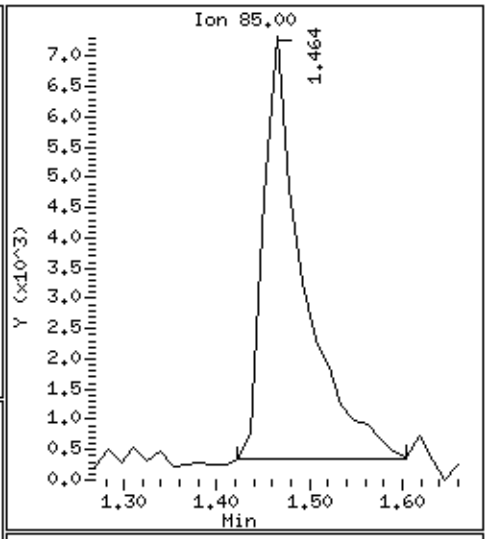
Column phase: RTX-624

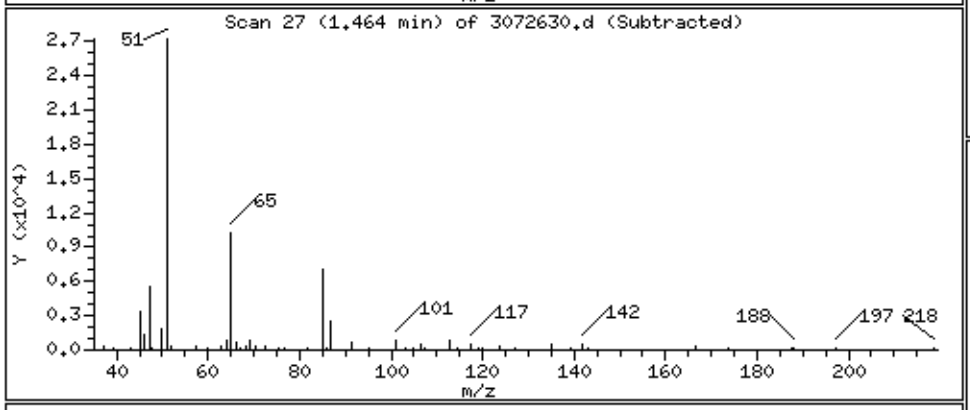
Column diameter: 0.25

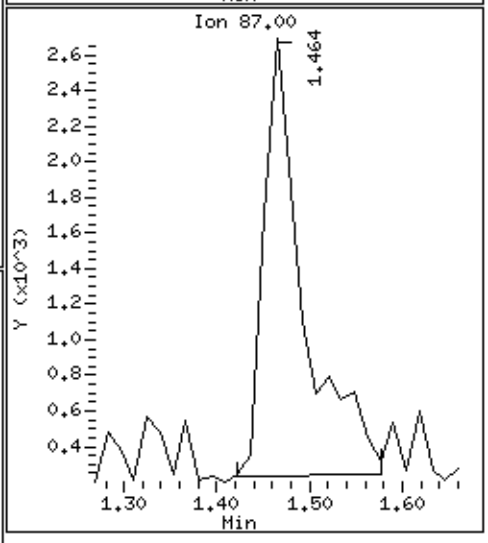
8 Freon 12

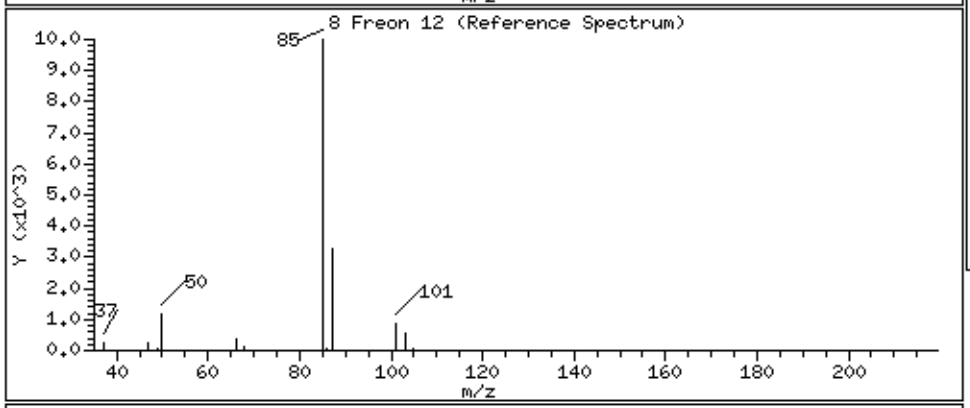
Concentration: 2.648 PPBV

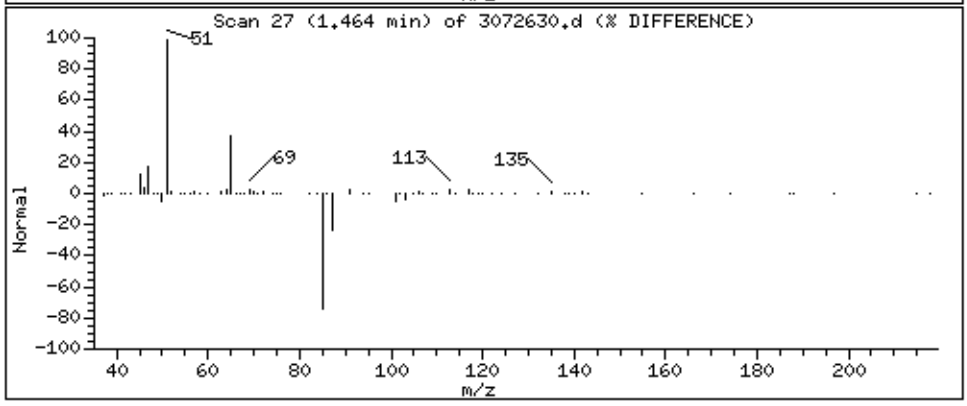












Data File: /chem/msd3.i/26JUL21.b/3072630.d

Date : 27-JUL-2021 08:06

Client ID:

Instrument: msd3.i

Sample Info: 200mL 00825

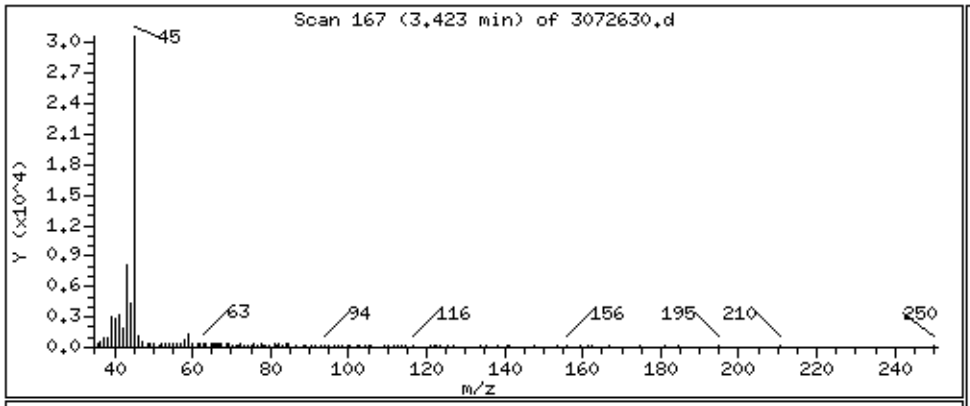
Operator: LD

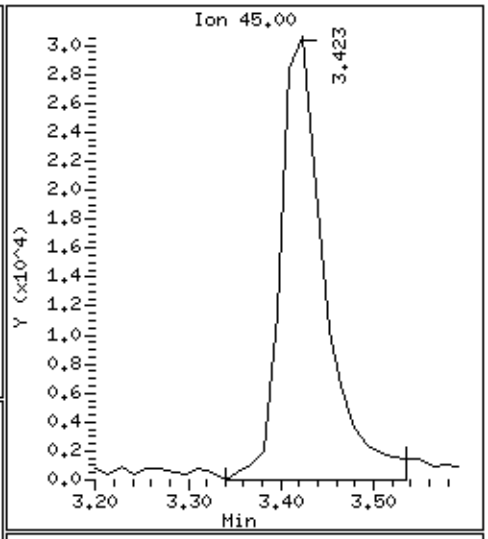
Column phase: RTX-624

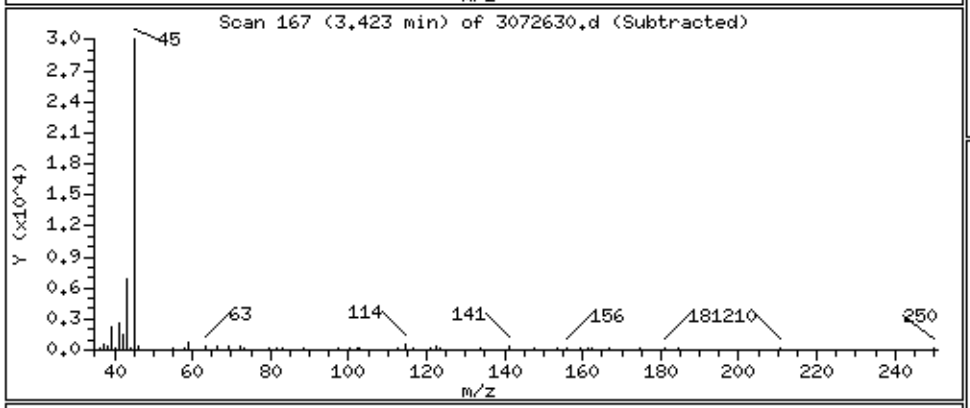
Column diameter: 0.25

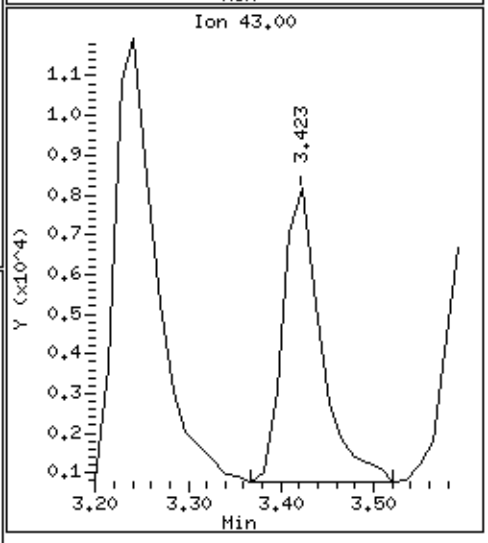
52 2-Propanol

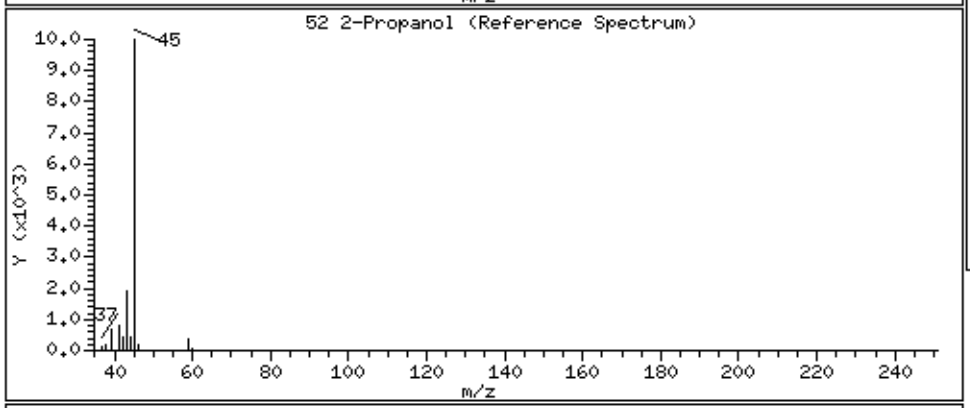
Concentration: 14.926 PPBV

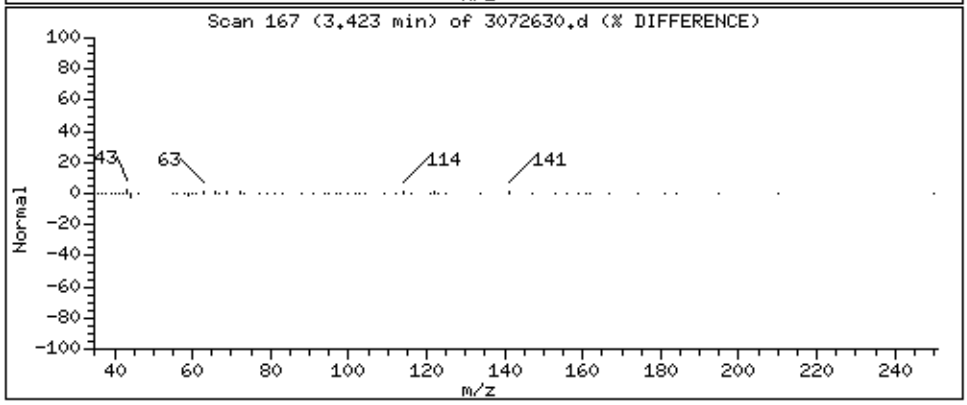












Data File: /chem/msd3.i/26JUL21.b/3072630.d

Date : 27-JUL-2021 08:06

Client ID:

Instrument: msd3.i

Sample Info: 200mL 00825

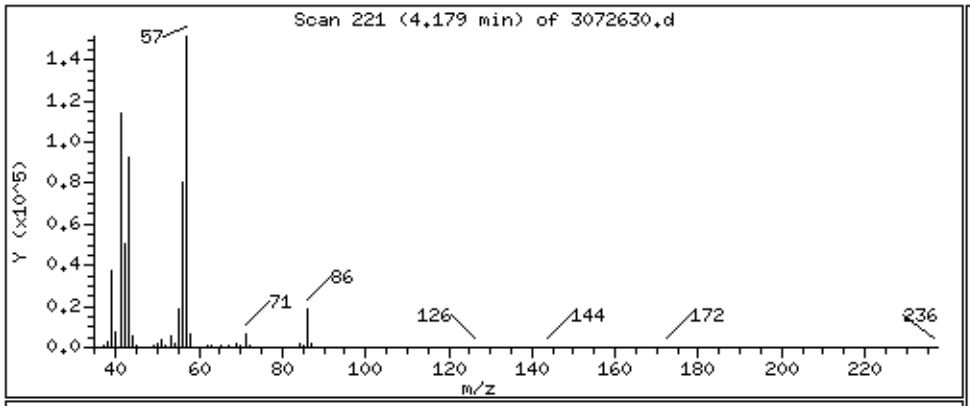
Operator: LD

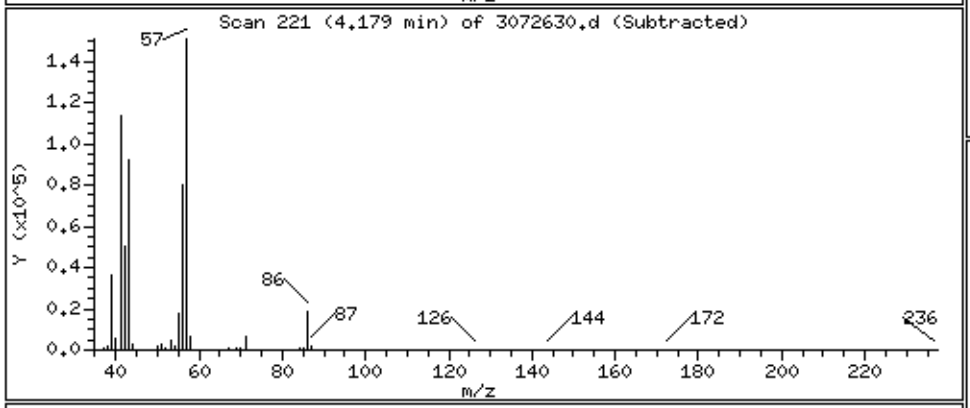
Column phase: RTX-624

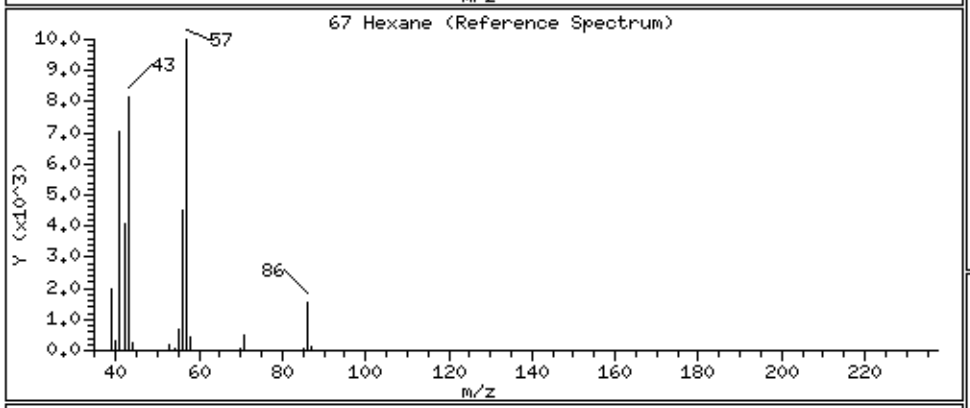
Column diameter: 0.25

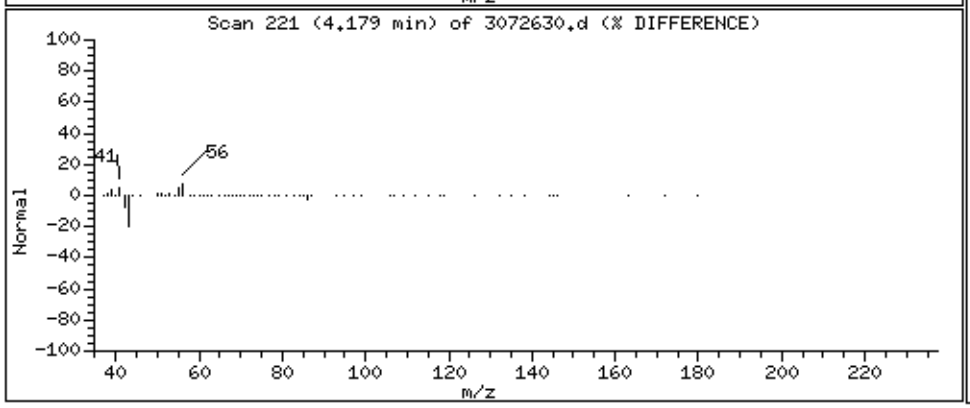
67 Hexane

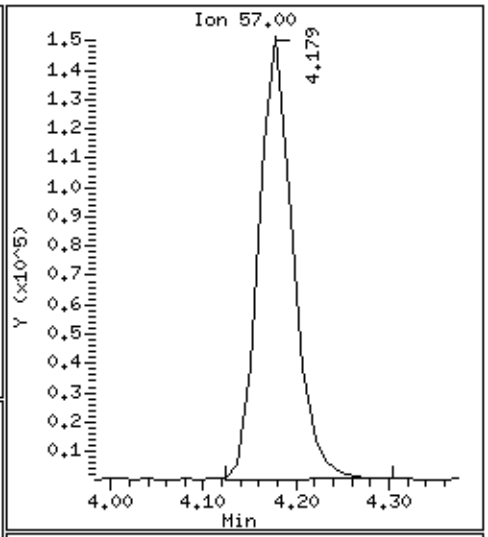
Concentration: 62.201 PPBV

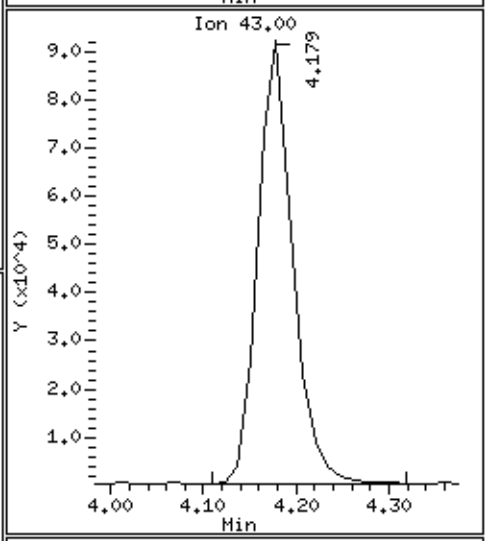


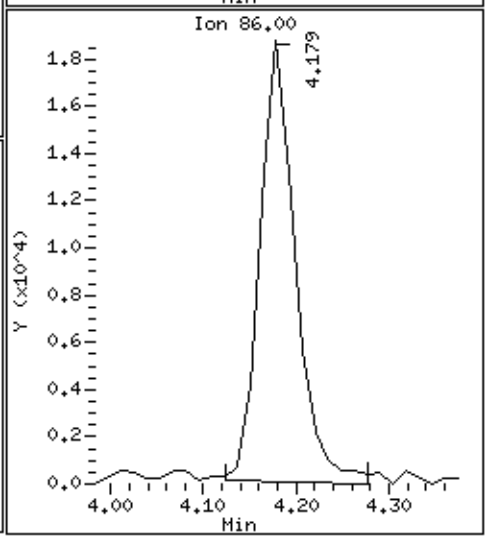












Data File: /chem/msd3.i/26JUL21.b/3072630.d

Date : 27-JUL-2021 08:06

Client ID:

Instrument: msd3.i

Sample Info: 200mL 00825

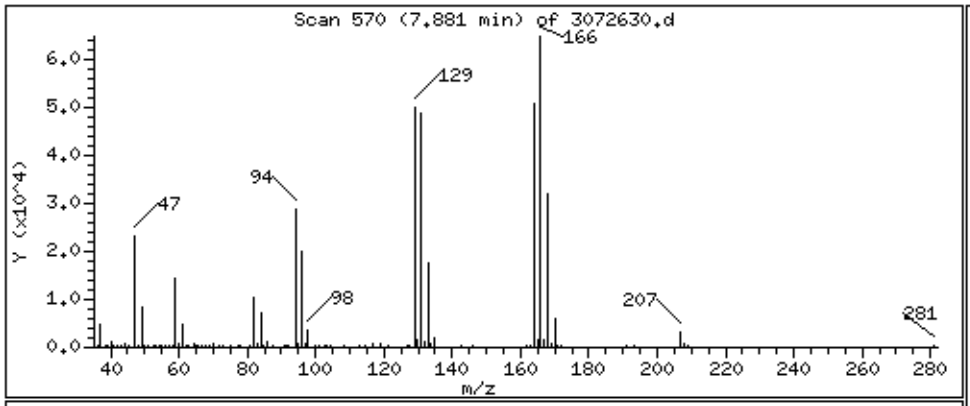
Operator: LD

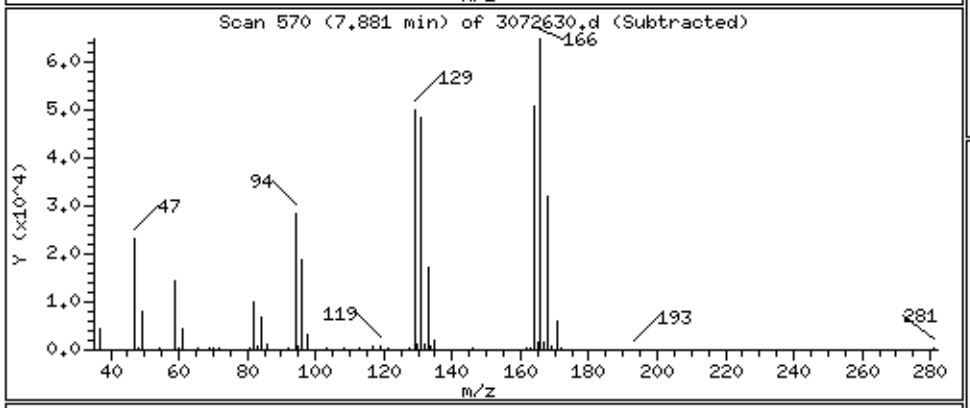
Column phase: RTX-624

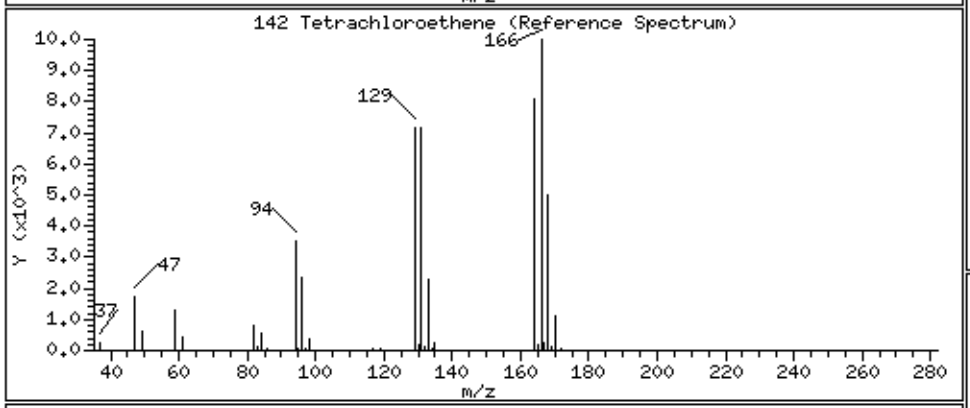
Column diameter: 0.25

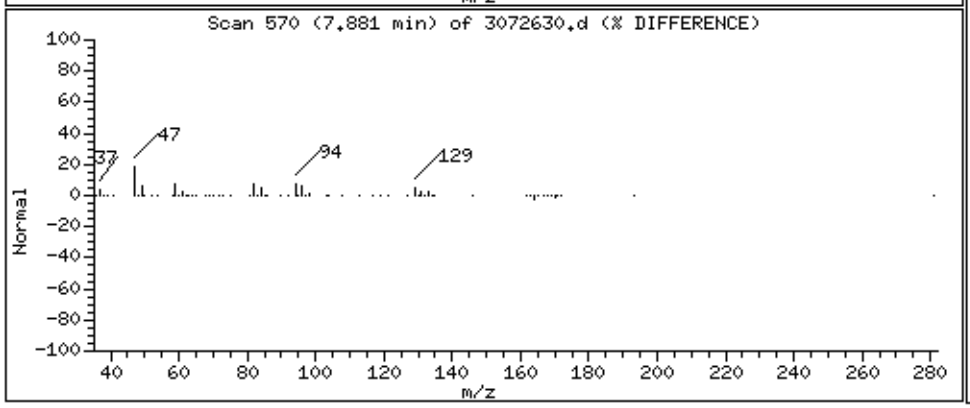
142 Tetrachloroethene

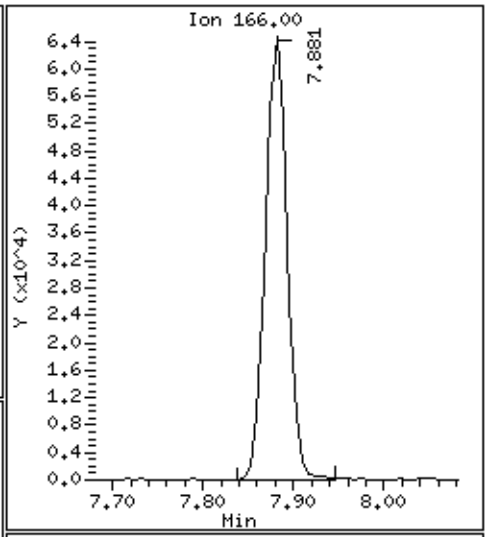
Concentration: 20.874 PPBV

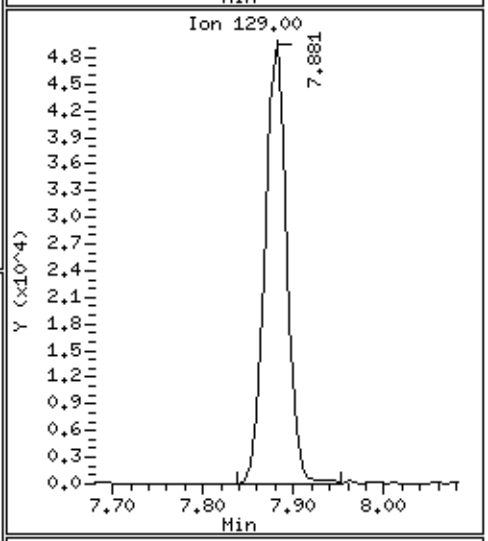


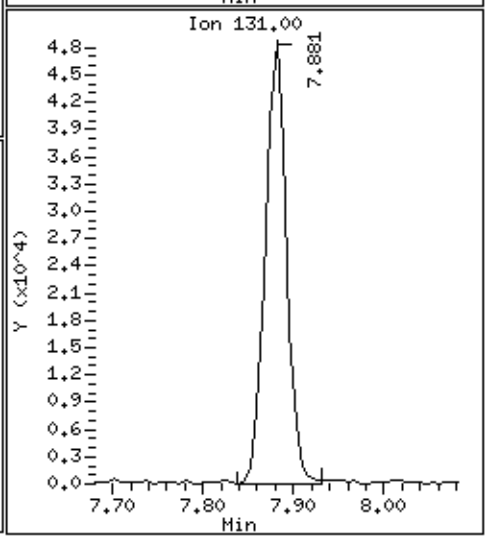












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Client Sample ID: SG-VW54B-02

Lab ID#: 2107284-19A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3072627**	**Date of Collection:**	**7/14/21 8:58:00 AM**
Dil. Factor:	**2.25**	**Date of Analysis:**	**7/27/21 02:50 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1,2-Tetrachloroethane	4.5	Not Detected	31	Not Detected
1,1,1-Trichloroethane	1.1	Not Detected	6.1	Not Detected
1,1,2,2-Tetrachloroethane	1.1	Not Detected	7.7	Not Detected
1,1,2-Trichloroethane	1.1	Not Detected	6.1	Not Detected
1,1-Dichloroethane	1.1	Not Detected	4.6	Not Detected
1,1-Dichloroethene	1.1	Not Detected	4.5	Not Detected
1,1-Difluoroethane	4.5	Not Detected	12	Not Detected
1,2,3-Trichloropropane	4.5	Not Detected	27	Not Detected
1,2,4-Trichlorobenzene	4.5	Not Detected	33	Not Detected
1,2,4-Trimethylbenzene	1.1	Not Detected	5.5	Not Detected
1,2-Dibromo-3-chloropropane	4.5	Not Detected	43	Not Detected
1,2-Dibromoethane (EDB)	1.1	Not Detected	8.6	Not Detected
1,2-Dichlorobenzene	1.1	Not Detected	6.8	Not Detected
1,2-Dichloroethane	1.1	Not Detected	4.6	Not Detected
1,2-Dichloropropane	1.1	Not Detected	5.2	Not Detected
1,3,5-Trimethylbenzene	1.1	Not Detected	5.5	Not Detected
1,3-Butadiene	1.1	Not Detected	2.5	Not Detected
1,3-Dichlorobenzene	1.1	Not Detected	6.8	Not Detected
1,4-Dichlorobenzene	1.1	Not Detected	6.8	Not Detected
1,4-Dioxane	4.5	Not Detected	16	Not Detected
2,2,4-Trimethylpentane	1.1	Not Detected	5.2	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.5	Not Detected	13	Not Detected
2-Hexanone	4.5	Not Detected	18	Not Detected
2-Propanol	4.5	Not Detected	11	Not Detected
3-Chloropropene	4.5	Not Detected	14	Not Detected
4-Ethyltoluene	1.1	Not Detected	5.5	Not Detected
4-Methyl-2-pentanone	1.1	Not Detected	4.6	Not Detected
Acetone	11	Not Detected	27	Not Detected
Acrolein	4.5	Not Detected	10	Not Detected
Acrylonitrile	4.5	Not Detected	9.8	Not Detected
alpha-Chlorotoluene	1.1	Not Detected	5.8	Not Detected
Benzene	1.1	Not Detected	3.6	Not Detected
Bromodichloromethane	1.1	Not Detected	7.5	Not Detected
Bromoform	1.1	Not Detected	12	Not Detected
Bromomethane	11	Not Detected	44	Not Detected
Carbon Disulfide	4.5	Not Detected	14	Not Detected
Carbon Tetrachloride	1.1	Not Detected	7.1	Not Detected
Chlorobenzene	1.1	Not Detected	5.2	Not Detected
Chloroethane	4.5	Not Detected	12	Not Detected
Chloroform	1.1	Not Detected	5.5	Not Detected
Chloromethane	11	Not Detected	23	Not Detected
cis-1,2-Dichloroethene	1.1	Not Detected	4.5	Not Detected

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Client Sample ID: SG-VW54B-02

Lab ID#: 2107284-19A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3072627**	**Date of Collection:**	**7/14/21 8:58:00 AM**
Dil. Factor:	**2.25**	**Date of Analysis:**	**7/27/21 02:50 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,3-Dichloropropene	1.1	Not Detected	5.1	Not Detected
Cumene	1.1	Not Detected	5.5	Not Detected
Cyclohexane	1.1	Not Detected	3.9	Not Detected
Dibromochloromethane	1.1	Not Detected	9.6	Not Detected
Dibromomethane	4.5	Not Detected	32	Not Detected
Ethanol	11	Not Detected	21	Not Detected
Ethyl Acetate	4.5	Not Detected	16	Not Detected
Ethyl Benzene	1.1	Not Detected	4.9	Not Detected
Ethyl-tert-butyl ether	4.5	Not Detected	19	Not Detected
Freon 11	1.1	Not Detected	6.3	Not Detected
Freon 12	1.1	5.8	5.6	29
Freon 113	1.1	Not Detected	8.6	Not Detected
Freon 114	1.1	Not Detected	7.9	Not Detected
Freon 134a	4.5	Not Detected	19	Not Detected
Heptane	1.1	Not Detected	4.6	Not Detected
Hexachlorobutadiene	4.5	Not Detected	48	Not Detected
Hexachloroethane	4.5	Not Detected	44	Not Detected
Hexane	1.1	Not Detected	4.0	Not Detected
Iodomethane	11	Not Detected	65	Not Detected
Isopropyl ether	4.5	Not Detected	19	Not Detected
m,p-Xylene	1.1	Not Detected	4.9	Not Detected
Methyl tert-butyl ether	4.5	Not Detected	16	Not Detected
Methylene Chloride	11	Not Detected	39	Not Detected
Naphthalene	2.2	Not Detected	12	Not Detected
o-Xylene	1.1	Not Detected	4.9	Not Detected
Propylbenzene	1.1	Not Detected	5.5	Not Detected
Propylene	4.5	Not Detected	7.7	Not Detected
Styrene	1.1	Not Detected	4.8	Not Detected
tert-Amyl methyl ether	4.5	Not Detected	19	Not Detected
tert-Butyl alcohol	4.5	Not Detected	14	Not Detected
Tetrachloroethene	1.1	6.8	7.6	46
Tetrahydrofuran	1.1	Not Detected	3.3	Not Detected
Toluene	1.1	Not Detected	4.2	Not Detected
TPH ref. to Gasoline (MW=100)	110	Not Detected	460	Not Detected
trans-1,2-Dichloroethene	1.1	Not Detected	4.5	Not Detected
trans-1,3-Dichloropropene	1.1	Not Detected	5.1	Not Detected
Trichloroethene	1.1	Not Detected	6.0	Not Detected
Vinyl Acetate	4.5	Not Detected	16	Not Detected
Vinyl Bromide	4.5	Not Detected	20	Not Detected
Vinyl Chloride	1.1	Not Detected	2.9	Not Detected

Container Type: 1 Liter Summa Canister

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Client Sample ID: SG-VW54B-02

Lab ID#: 2107284-19A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3072627**	**Date of Collection: 7/14/21 8:58:00 AM**	
Dil. Factor:	**2.25**	**Date of Analysis: 7/27/21 02:50 AM**	

Surrogates	%Recovery	Method Limits
Toluene-d8	94	70-130
1,2-Dichloroethane-d4	98	70-130
4-Bromofluorobenzene	94	70-130

US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msd3.i/26JUL21.b/3072627.d
Lab Smp Id: 2107284-19A
Inj Date : 27-JUL-2021 02:50
Operator : DF Inst ID: msd3.i
Smp Info : 200mL N3462
Misc Info : 7.6 Hg->10 psi
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msd3.i/26JUL21.b/321q0622a.m
Meth Date : 28-Jul-2021 12:16 uexa Quant Type: ISTD
Cal Date : 23-JUN-2021 00:09 Cal File: 3062223.d
Als bottle: 10
Dil Factor: 2.25000
Integrator: HP RTE Compound Sublist: AEC25677.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE		(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 90 Bromochloromethane							CAS #: 74-97-5	
5.284	5.284 (1.000)	130	265446	25.0000			80.00- 120.00	100.00
5.284	5.284 (1.000)	128	205656				48.46- 108.46	77.48
5.270	5.284 (1.000)	49	379153				120.39- 180.39	142.84
* 108 1,4-Difluorobenzene							CAS #: 540-36-3	
6.166	6.166 (1.000)	114	886857	25.0000			80.00- 120.00	100.00
6.166	6.166 (1.000)	88	128751				0.00- 45.52	14.52
* 153 Chlorobenzene-d5							CAS #: 3114-55-4	
8.612	8.612 (1.000)	117	787055	25.0000			80.00- 120.00	100.00
8.612	8.612 (1.000)	82	410592				25.46- 85.46	52.17
$ 104 1,2-Dichloroethane-d4							CAS #: 17060-07-0	
5.816	5.816 (1.101)	65	356923	24.4338	24.434		80.00- 120.00	100.00
5.816	5.816 (1.101)	67	173907				21.66- 81.66	48.72
$ 134 Toluene-d8							CAS #: 2037-26-5	
7.387	7.387 (1.198)	98	858790	23.5104	23.510		80.00- 120.00	100.00
7.387	7.387 (1.198)	70	96530				0.00- 41.47	11.24

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 134 Toluene-d8 (continued)							
7.387	7.387 (1.198)	100	567816			36.47- 96.47	66.12
$ 170 4-Bromofluorobenzene					CAS #: 460-00-4		
9.601	9.601 (1.115)	174	489712	23.5235	23.524	80.00- 120.00	100.00
9.601	9.601 (1.115)	95	550107			93.06- 153.06	112.33
9.601	9.601 (1.115)	176	448402			62.87- 122.87	91.56
8 Freon 12					CAS #: 75-71-8		
1.465	1.465 (0.277)	85	48041	2.59803	5.846	80.00- 120.00	100.00
1.465	1.465 (0.277)	87	16126			2.63- 62.63	33.57
62 tert-Butyl alcohol					CAS #: 75-65-0		
3.899	3.857 (0.738)	59	39602	1.97103	4.435	80.00- 120.00	100.00(a)
3.885	3.857 (0.735)	41	10031			0.00- 51.05	25.33
3.885	3.857 (0.735)	57	3692			0.00- 41.68	9.32
142 Tetrachloroethene					CAS #: 127-18-4		
7.874	7.881 (0.914)	166	37402	3.03339	6.825	80.00- 120.00	100.00
7.874	7.881 (0.914)	129	29950			48.71- 108.71	80.08
7.874	7.881 (0.914)	131	29051			46.55- 106.55	77.67

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd3.i
Lab File ID: 3072627.d
Lab Smp Id: 2107284-19A
Analysis Type: VOA
Quant Type: ISTD
Operator: DF
Method File: /chem/msd3.i/26JUL21.b/321q0622a.m
Misc Info: 7.6 Hg->10 psi

Calibration Date: 26-JUL-2021
Calibration Time: 10:10
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	263983	158390	369576	265446	0.55
108 1,4-Difluorobenze	833448	500069	1166827	886857	6.41
153 Chlorobenzene-d5	741338	444803	1037873	787055	6.17

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.28	4.95	5.61	5.28	0.00
108 1,4-Difluorobenze	6.17	5.84	6.50	6.17	0.00
153 Chlorobenzene-d5	8.61	8.28	8.94	8.61	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 28-Jul-2021 14:29

US32TAR1

RECOVERY REPORT

Client Name: Client SDG: 26JUL21
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 2107284-19A
Level: LOW Operator: DF
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT20_new.spk Quant Type: ISTD
Sublist File: AEC25677.sub
Method File: /chem/msd3.i/26JUL21.b/321q0622a.m
Misc Info: 7.6 Hg->10 psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 104 1,2-Dichloroethan	25.000	24.434	97.74	70-130
$ 134 Toluene-d8	25.000	23.510	94.04	70-130
$ 170 4-Bromofluorobenz	25.000	23.524	94.09	70-130

Data File: /chem/msd3.i/26JUL21.b/3072627.d

Date : 27-JUL-2021 02:50

Client ID:

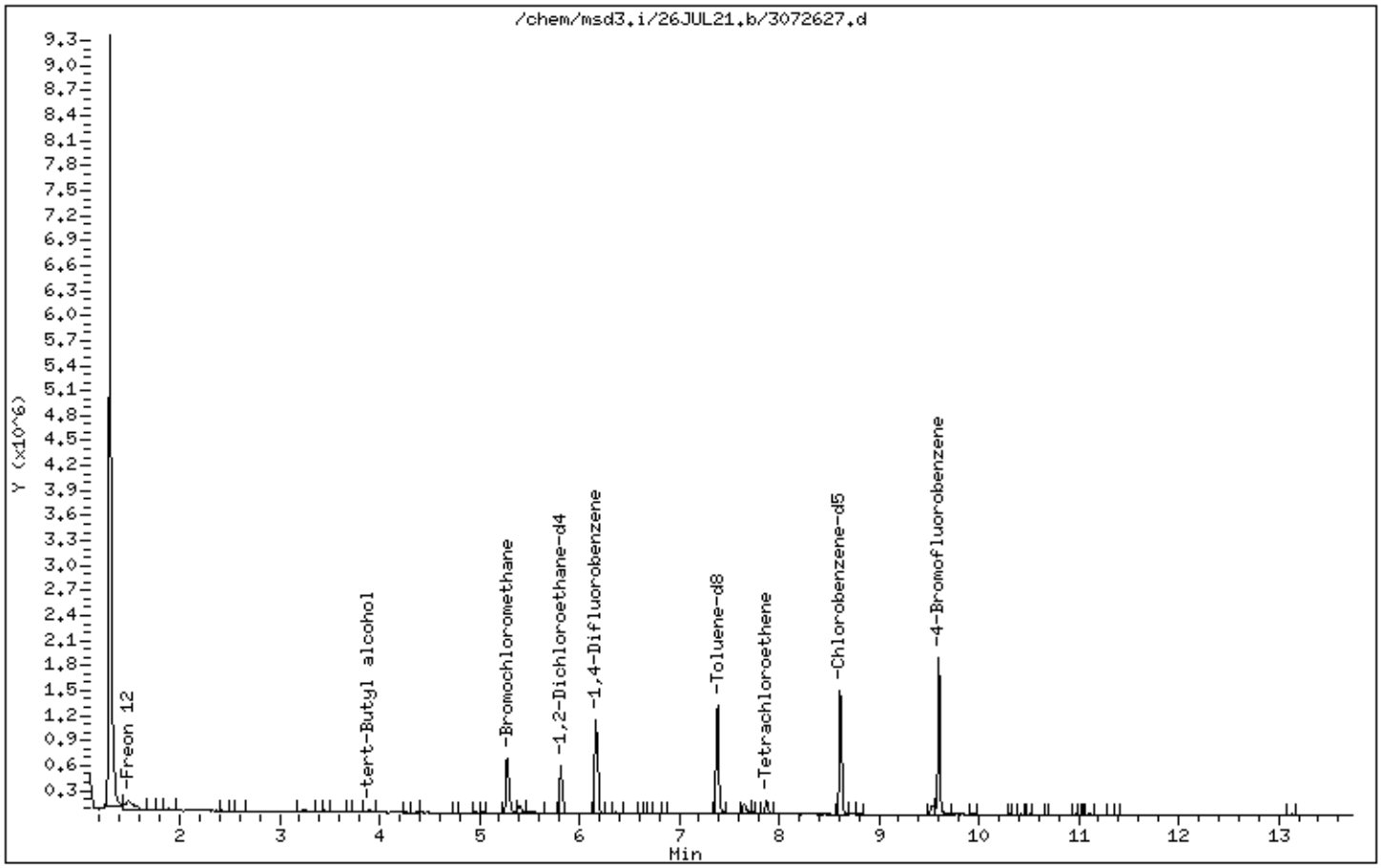
Instrument: msd3.i

Sample Info: 200mL N3462

Operator: DF

Column phase: RTX-624

Column diameter: 0.25



Data File: /chem/msd3.i/26JUL21.b/3072627.d

Date : 27-JUL-2021 02:50

Client ID:

Instrument: msd3.i

Sample Info: 200mL N3462

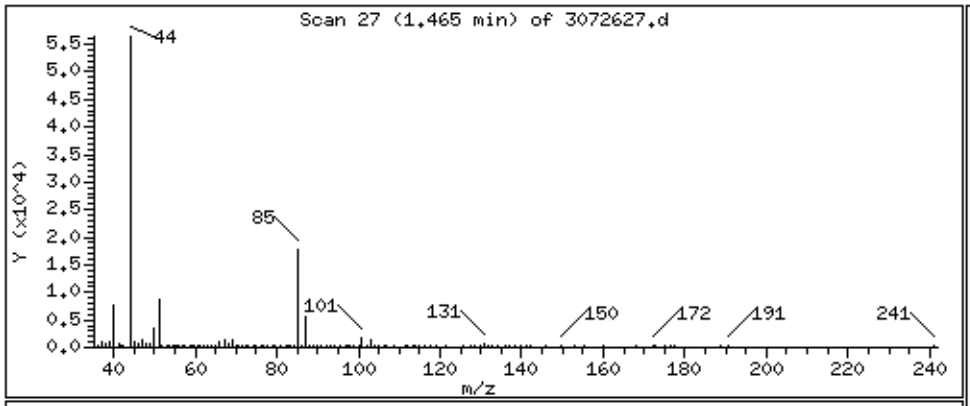
Operator: DF

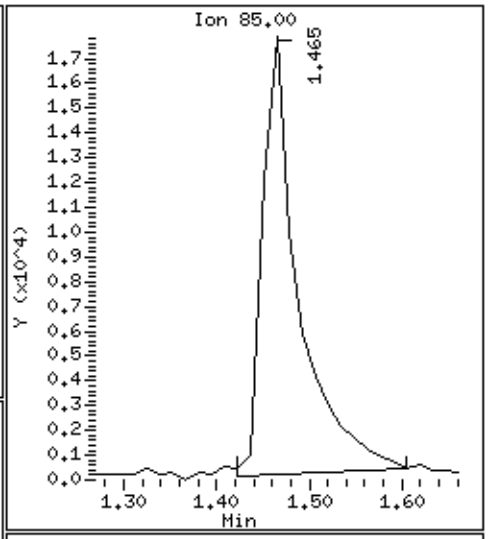
Column phase: RTX-624

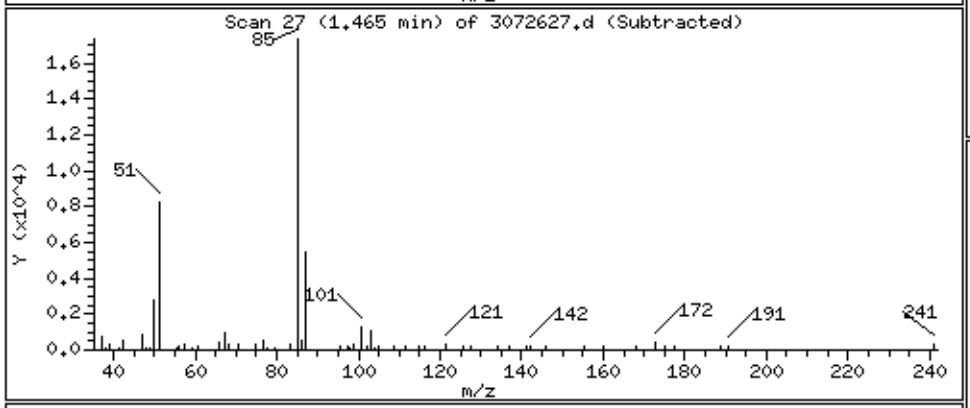
Column diameter: 0.25

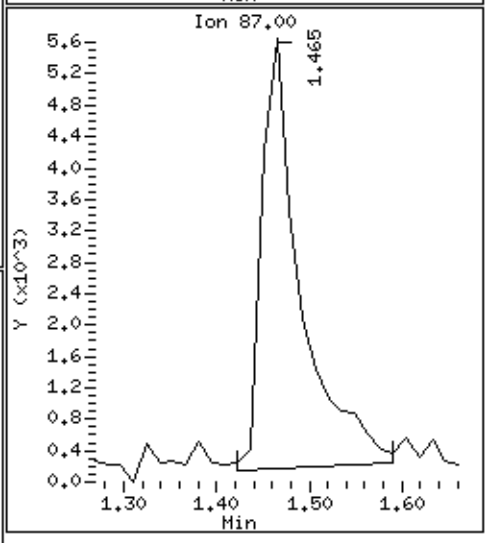
8 Freon 12

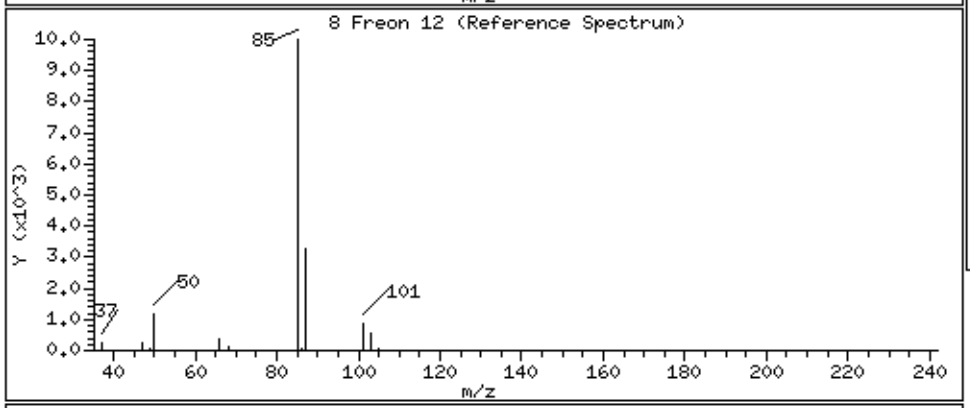
Concentration: 5.846 PPBV

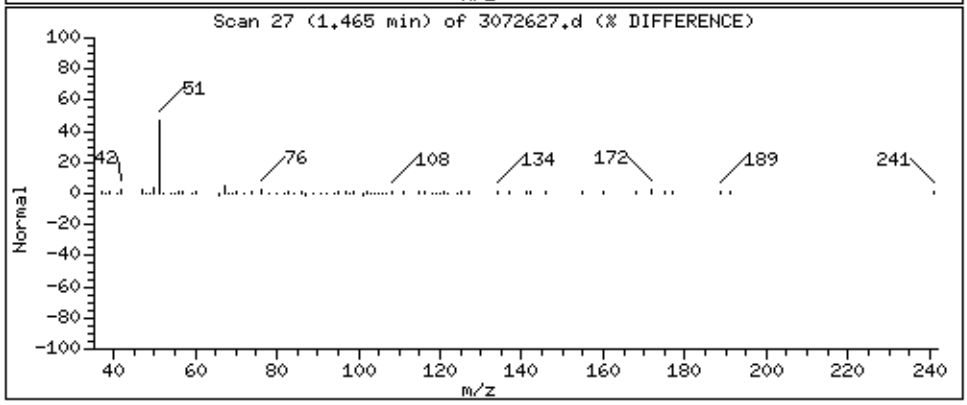












Data File: /chem/msd3.i/26JUL21.b/3072627.d

Date : 27-JUL-2021 02:50

Client ID:

Instrument: msd3.i

Sample Info: 200mL N3462

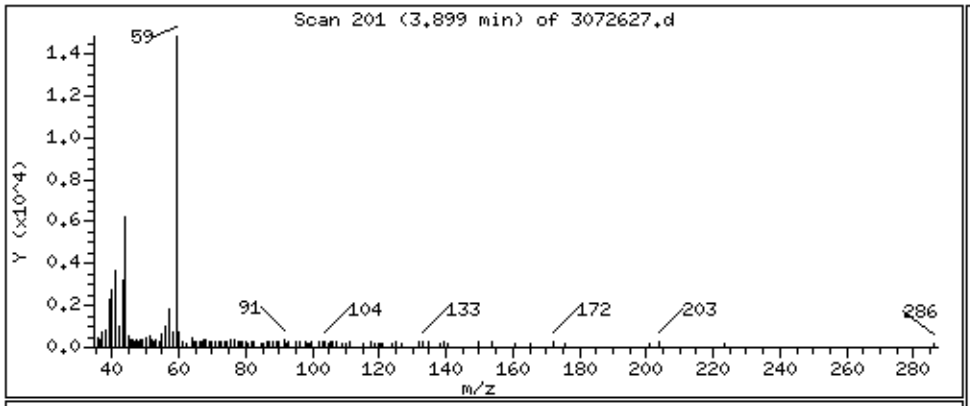
Operator: DF

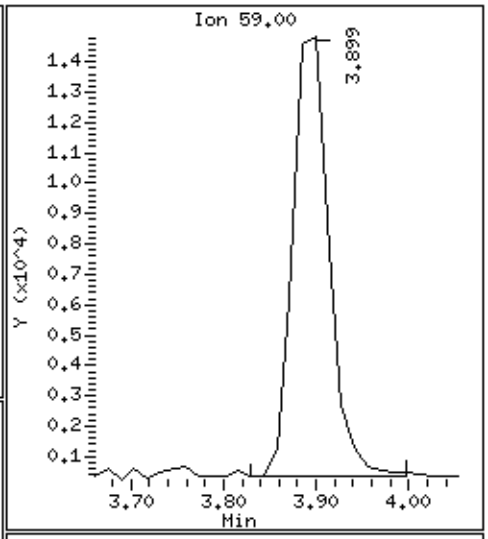
Column phase: RTX-624

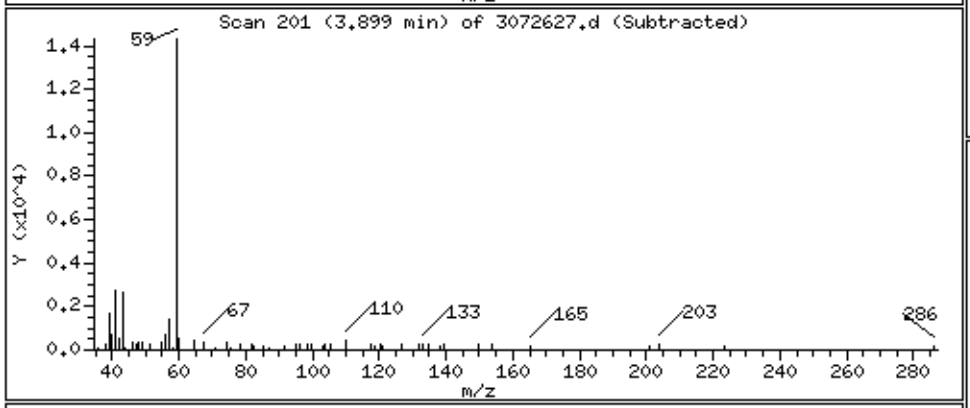
Column diameter: 0.25

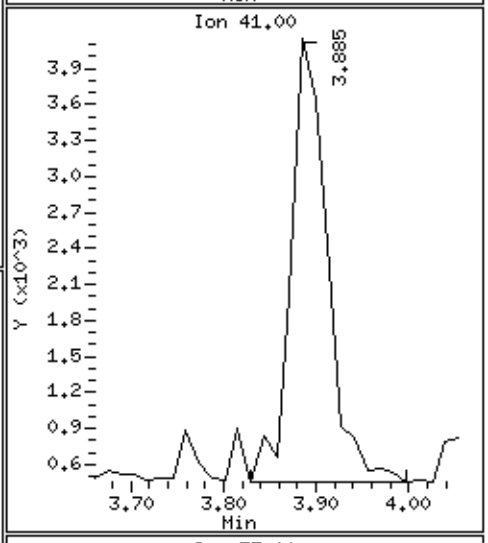
62 tert-Butyl alcohol

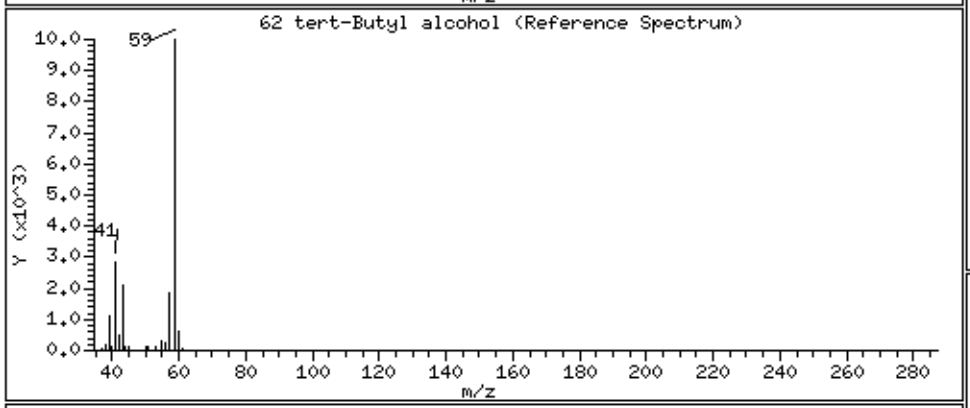
Concentration: 4.435 PPBV

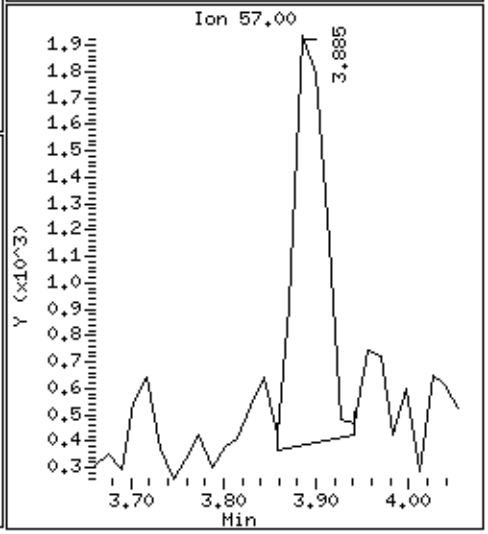


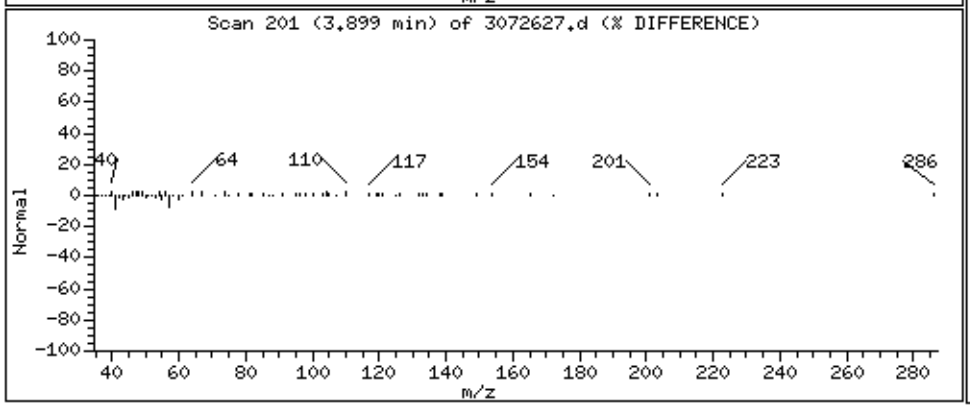












Data File: /chem/msd3.i/26JUL21.b/3072627.d

Date : 27-JUL-2021 02:50

Client ID:

Instrument: msd3.i

Sample Info: 200mL N3462

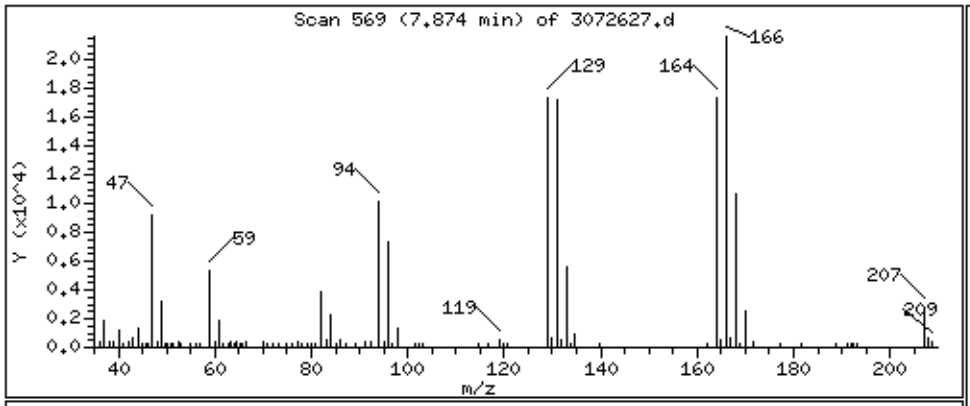
Operator: DF

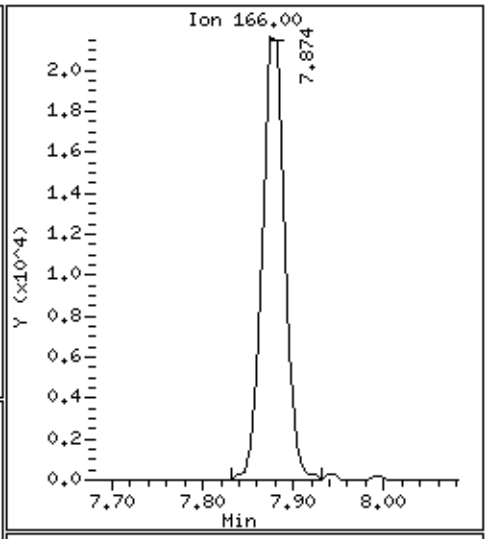
Column phase: RTX-624

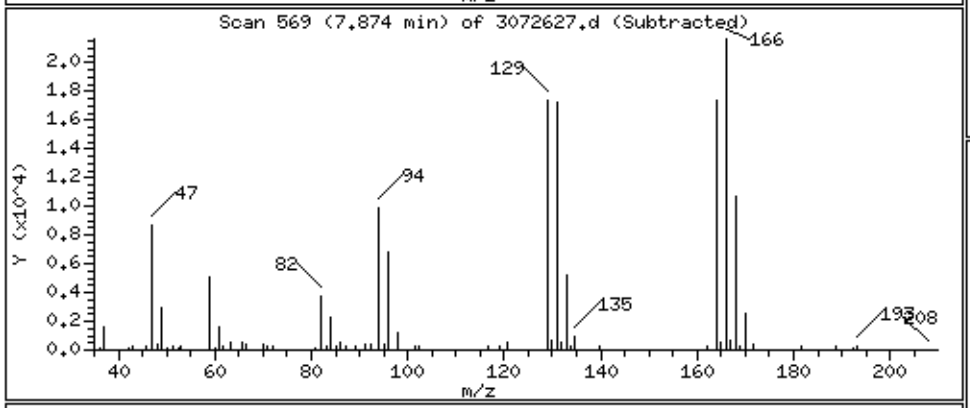
Column diameter: 0.25

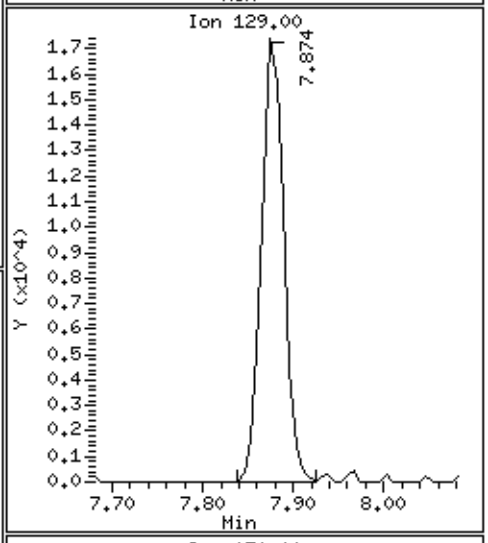
142 Tetrachloroethene

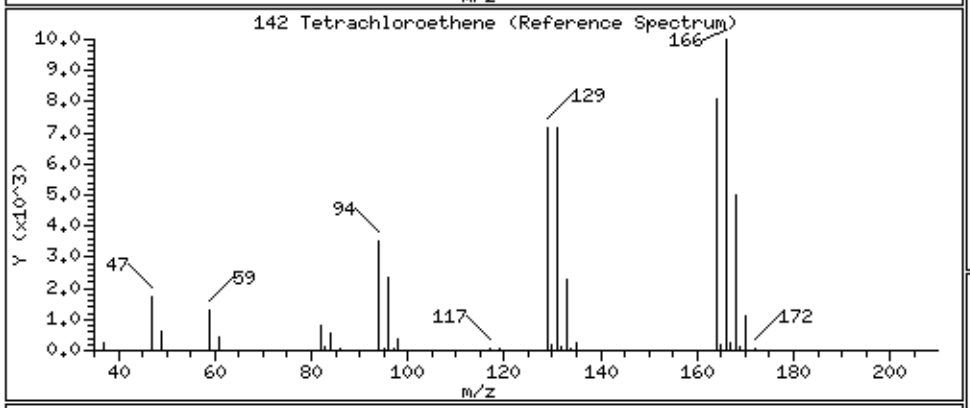
Concentration: 6.825 PPBV

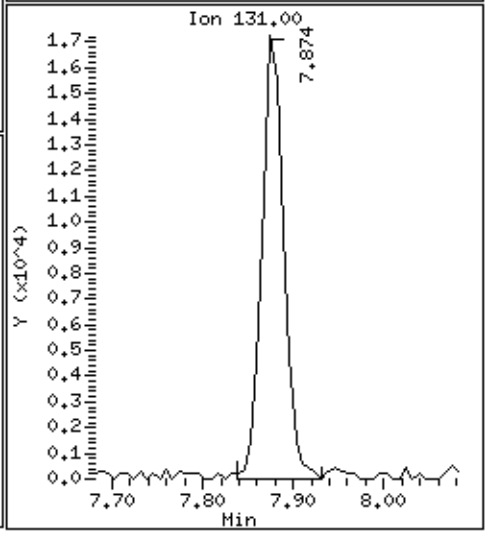


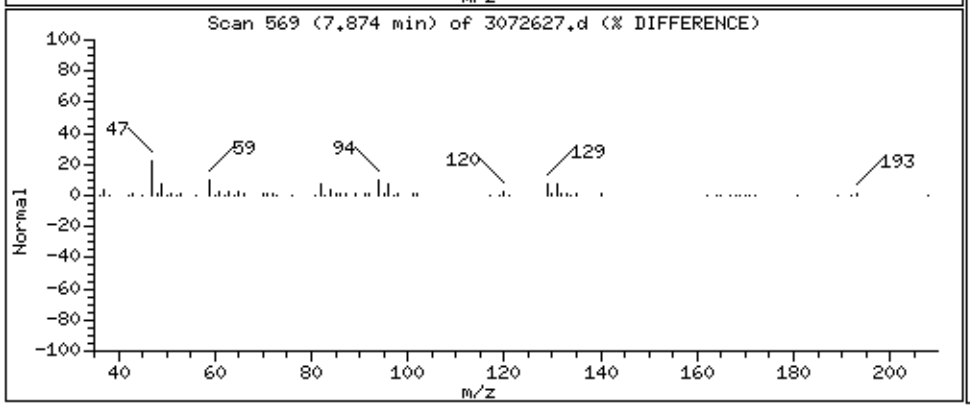












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Client Sample ID: SG-VW24B-02

Lab ID#: 2107284-20A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3072628**	**Date of Collection: 7/14/21 9:47:00 AM**	
Dil. Factor:	**2.42**	**Date of Analysis: 7/27/21 03:19 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1,2-Tetrachloroethane	4.8	Not Detected	33	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.6	Not Detected
1,1,2,2-Tetrachloroethane	1.2	Not Detected	8.3	Not Detected
1,1,2-Trichloroethane	1.2	Not Detected	6.6	Not Detected
1,1-Dichloroethane	1.2	Not Detected	4.9	Not Detected
1,1-Dichloroethene	1.2	Not Detected	4.8	Not Detected
1,1-Difluoroethane	4.8	Not Detected	13	Not Detected
1,2,3-Trichloropropane	4.8	Not Detected	29	Not Detected
1,2,4-Trichlorobenzene	4.8	Not Detected	36	Not Detected
1,2,4-Trimethylbenzene	1.2	Not Detected	5.9	Not Detected
1,2-Dibromo-3-chloropropane	4.8	Not Detected	47	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.3	Not Detected
1,2-Dichlorobenzene	1.2	Not Detected	7.3	Not Detected
1,2-Dichloroethane	1.2	Not Detected	4.9	Not Detected
1,2-Dichloropropane	1.2	Not Detected	5.6	Not Detected
1,3,5-Trimethylbenzene	1.2	Not Detected	5.9	Not Detected
1,3-Butadiene	1.2	Not Detected	2.7	Not Detected
1,3-Dichlorobenzene	1.2	Not Detected	7.3	Not Detected
1,4-Dichlorobenzene	1.2	Not Detected	7.3	Not Detected
1,4-Dioxane	4.8	Not Detected	17	Not Detected
2,2,4-Trimethylpentane	1.2	Not Detected	5.6	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.8	Not Detected	14	Not Detected
2-Hexanone	4.8	Not Detected	20	Not Detected
2-Propanol	4.8	7.8	12	19
3-Chloropropene	4.8	Not Detected	15	Not Detected
4-Ethyltoluene	1.2	Not Detected	5.9	Not Detected
4-Methyl-2-pentanone	1.2	Not Detected	5.0	Not Detected
Acetone	12	Not Detected	29	Not Detected
Acrolein	4.8	Not Detected	11	Not Detected
Acrylonitrile	4.8	Not Detected	10	Not Detected
alpha-Chlorotoluene	1.2	Not Detected	6.3	Not Detected
Benzene	1.2	Not Detected	3.9	Not Detected
Bromodichloromethane	1.2	Not Detected	8.1	Not Detected
Bromoform	1.2	Not Detected	12	Not Detected
Bromomethane	12	Not Detected	47	Not Detected
Carbon Disulfide	4.8	Not Detected	15	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.6	Not Detected
Chlorobenzene	1.2	Not Detected	5.6	Not Detected
Chloroethane	4.8	Not Detected	13	Not Detected
Chloroform	1.2	Not Detected	5.9	Not Detected
Chloromethane	12	Not Detected	25	Not Detected
cis-1,2-Dichloroethene	1.2	Not Detected	4.8	Not Detected

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Client Sample ID: SG-VW24B-02

Lab ID#: 2107284-20A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3072628**	**Date of Collection: 7/14/21 9:47:00 AM**	
Dil. Factor:	**2.42**	**Date of Analysis: 7/27/21 03:19 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,3-Dichloropropene	1.2	Not Detected	5.5	Not Detected
Cumene	1.2	Not Detected	5.9	Not Detected
Cyclohexane	1.2	Not Detected	4.2	Not Detected
Dibromochloromethane	1.2	Not Detected	10	Not Detected
Dibromomethane	4.8	Not Detected	34	Not Detected
Ethanol	12	Not Detected	23	Not Detected
Ethyl Acetate	4.8	Not Detected	17	Not Detected
Ethyl Benzene	1.2	Not Detected	5.2	Not Detected
Ethyl-tert-butyl ether	4.8	Not Detected	20	Not Detected
Freon 11	1.2	Not Detected	6.8	Not Detected
Freon 12	1.2	4.2	6.0	20
Freon 113	1.2	Not Detected	9.3	Not Detected
Freon 114	1.2	Not Detected	8.4	Not Detected
Freon 134a	4.8	Not Detected	20	Not Detected
Heptane	1.2	Not Detected	5.0	Not Detected
Hexachlorobutadiene	4.8	Not Detected	52	Not Detected
Hexachloroethane	4.8	Not Detected	47	Not Detected
Hexane	1.2	Not Detected	4.3	Not Detected
Iodomethane	12	Not Detected	70	Not Detected
Isopropyl ether	4.8	Not Detected	20	Not Detected
m,p-Xylene	1.2	Not Detected	5.2	Not Detected
Methyl tert-butyl ether	4.8	Not Detected	17	Not Detected
Methylene Chloride	12	Not Detected	42	Not Detected
Naphthalene	2.4	Not Detected	13	Not Detected
o-Xylene	1.2	Not Detected	5.2	Not Detected
Propylbenzene	1.2	Not Detected	5.9	Not Detected
Propylene	4.8	Not Detected	8.3	Not Detected
Styrene	1.2	Not Detected	5.2	Not Detected
tert-Amyl methyl ether	4.8	Not Detected	20	Not Detected
tert-Butyl alcohol	4.8	Not Detected	15	Not Detected
Tetrachloroethene	1.2	50	8.2	340
Tetrahydrofuran	1.2	Not Detected	3.6	Not Detected
Toluene	1.2	Not Detected	4.6	Not Detected
TPH ref. to Gasoline (MW=100)	120	Not Detected	490	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.8	Not Detected
trans-1,3-Dichloropropene	1.2	Not Detected	5.5	Not Detected
Trichloroethene	1.2	Not Detected	6.5	Not Detected
Vinyl Acetate	4.8	Not Detected	17	Not Detected
Vinyl Bromide	4.8	Not Detected	21	Not Detected
Vinyl Chloride	1.2	Not Detected	3.1	Not Detected

Container Type: 1 Liter Summa Canister

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Client Sample ID: SG-VW24B-02

Lab ID#: 2107284-20A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3072628**	**Date of Collection: 7/14/21 9:47:00 AM**	
Dil. Factor:	**2.42**	**Date of Analysis: 7/27/21 03:19 AM**	

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	95	70-130
4-Bromofluorobenzene	92	70-130

US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msd3.i/26JUL21.b/3072628.d
Lab Smp Id: 2107284-20A
Inj Date : 27-JUL-2021 03:19
Operator : DF Inst ID: msd3.i
Smp Info : 200mL N1995
Misc Info : 9.2 Hg->10 psi
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msd3.i/26JUL21.b/321q0622a.m
Meth Date : 28-Jul-2021 12:16 uexa Quant Type: ISTD
Cal Date : 23-JUN-2021 00:09 Cal File: 3062223.d
Als bottle: 11
Dil Factor: 2.42000
Integrator: HP RTE Compound Sublist: AEC25677.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE		(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 90 Bromochloromethane						CAS #: 74-97-5		
5.284	5.284 (1.000)	130	226843	25.0000			80.00- 120.00	100.00
5.284	5.284 (1.000)	128	178674				48.46- 108.46	78.77
5.270	5.284 (1.000)	49	323854				120.39- 180.39	142.77
* 108 1,4-Difluorobenzene						CAS #: 540-36-3		
6.180	6.166 (1.000)	114	724759	25.0000			80.00- 120.00	100.00
6.166	6.166 (1.000)	88	106175				0.00- 45.52	14.65
* 153 Chlorobenzene-d5						CAS #: 3114-55-4		
8.619	8.612 (1.000)	117	664237	25.0000			80.00- 120.00	100.00
8.619	8.612 (1.000)	82	346716				25.46- 85.46	52.20
$ 104 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
5.816	5.816 (1.101)	65	297733	23.8503	23.850		80.00- 120.00	100.00
5.816	5.816 (1.101)	67	144949				21.66- 81.66	48.68
$ 134 Toluene-d8						CAS #: 2037-26-5		
7.387	7.387 (1.195)	98	733618	24.5755	24.576		80.00- 120.00	100.00
7.387	7.387 (1.195)	70	81827				0.00- 41.47	11.15

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 134 Toluene-d8 (continued)							
7.387	7.387 (1.195)	100	486099			36.47- 96.47	66.26
$ 170 4-Bromofluorobenzene					CAS #: 460-00-4		
9.601	9.601 (1.114)	174	405580	23.0845	23.084	80.00- 120.00	100.00
9.601	9.601 (1.114)	95	461569			93.06- 153.06	113.80
9.601	9.601 (1.114)	176	377026			62.87- 122.87	92.96
8 Freon 12					CAS #: 75-71-8		
1.451	1.465 (0.275)	85	27102	1.71508	4.150	80.00- 120.00	100.00
1.451	1.465 (0.275)	87	8670			2.63- 62.63	31.99
52 2-Propanol					CAS #: 67-63-0		
3.466	3.395 (0.656)	45	43937	3.21190	7.773	80.00- 120.00	100.00
3.452	3.395 (0.653)	43	10234			0.00- 48.61	23.29
142 Tetrachloroethene					CAS #: 127-18-4		
7.882	7.881 (0.914)	166	213243	20.4922	49.591	80.00- 120.00	100.00
7.882	7.881 (0.914)	129	168376			48.71- 108.71	78.96
7.882	7.881 (0.914)	131	159313			46.55- 106.55	74.71

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd3.i
Lab File ID: 3072628.d
Lab Smp Id: 2107284-20A
Analysis Type: VOA
Quant Type: ISTD
Operator: DF
Method File: /chem/msd3.i/26JUL21.b/321q0622a.m
Misc Info: 9.2 Hg->10 psi

Calibration Date: 26-JUL-2021
Calibration Time: 10:10
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	263983	158390	369576	226843	-14.07
108 1,4-Difluorobenze	833448	500069	1166827	724759	-13.04
153 Chlorobenzene-d5	741338	444803	1037873	664237	-10.40

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.28	4.95	5.61	5.28	0.00
108 1,4-Difluorobenze	6.17	5.84	6.50	6.18	0.23
153 Chlorobenzene-d5	8.61	8.28	8.94	8.62	0.08

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 28-Jul-2021 14:29

US32TAR1

RECOVERY REPORT

Client Name: Client SDG: 26JUL21
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 2107284-20A
Level: LOW Operator: DF
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT20_new.spk Quant Type: ISTD
Sublist File: AEC25677.sub
Method File: /chem/msd3.i/26JUL21.b/321q0622a.m
Misc Info: 9.2 Hg->10 psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 104 1,2-Dichloroethan	25.000	23.850	95.40	70-130
$ 134 Toluene-d8	25.000	24.576	98.30	70-130
$ 170 4-Bromofluorobenz	25.000	23.084	92.34	70-130

Data File: /chem/msd3.i/26JUL21.b/3072628.d

Date : 27-JUL-2021 03:19

Client ID:

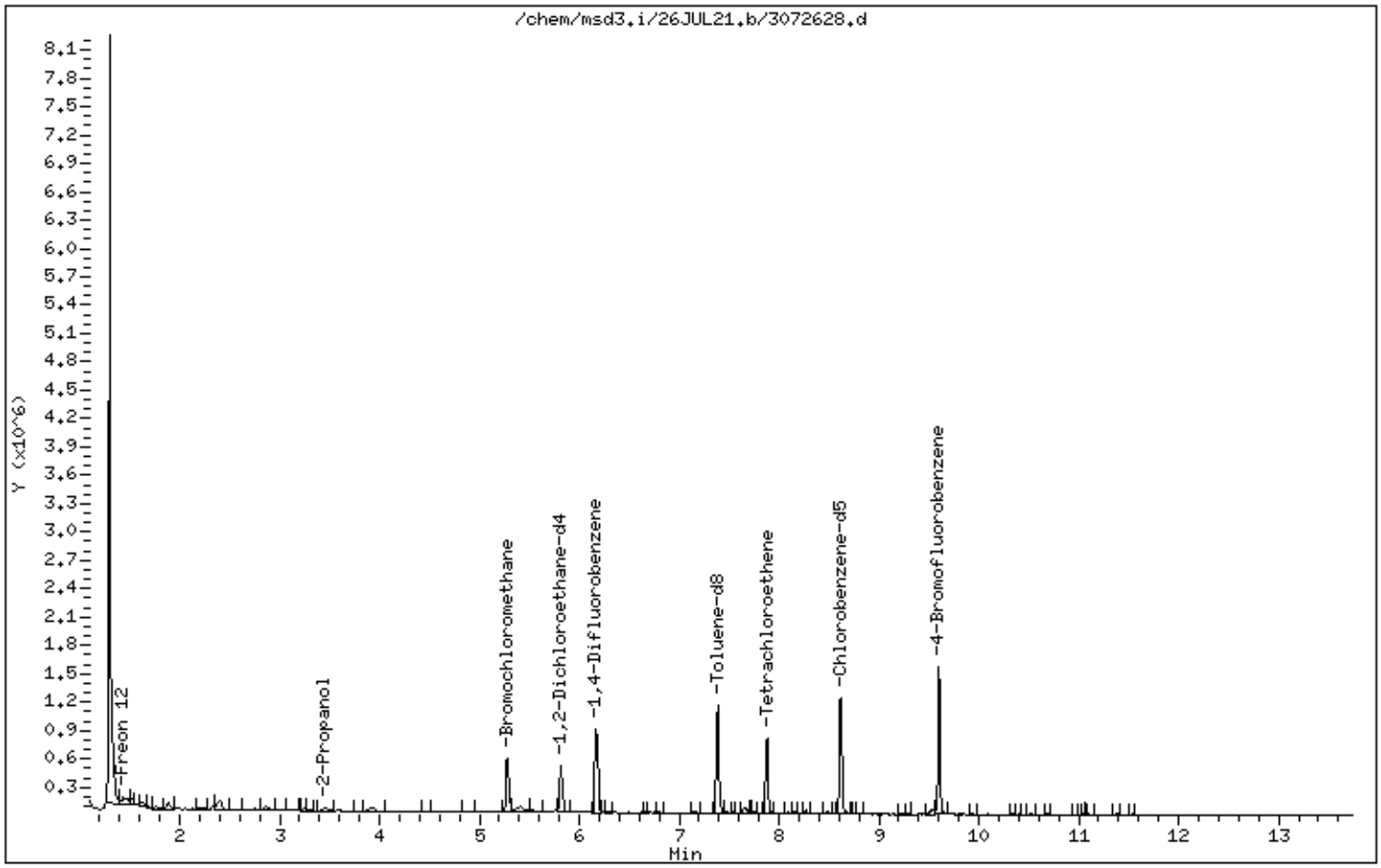
Instrument: msd3.i

Sample Info: 200mL N1995

Operator: DF

Column phase: RTX-624

Column diameter: 0.25



Data File: /chem/msd3.i/26JUL21.b/3072628.d

Date : 27-JUL-2021 03:19

Client ID:

Instrument: msd3.i

Sample Info: 200mL N1995

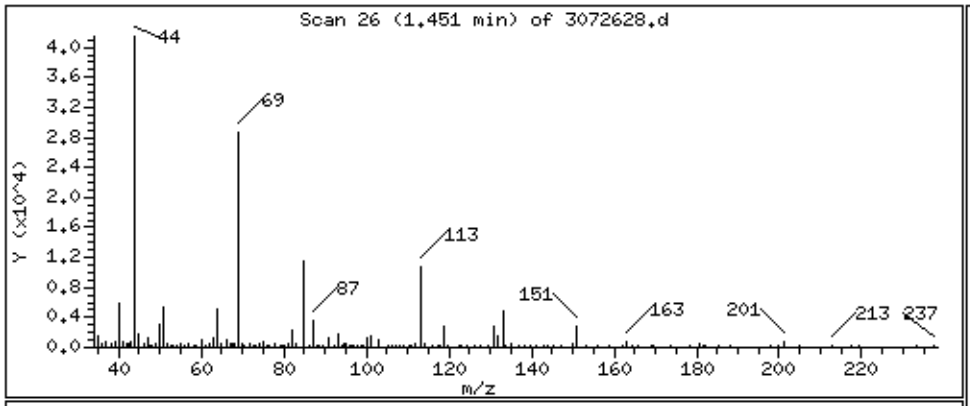
Operator: DF

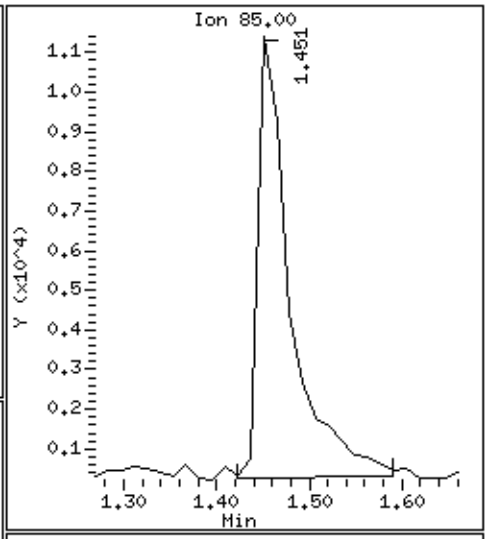
Column phase: RTX-624

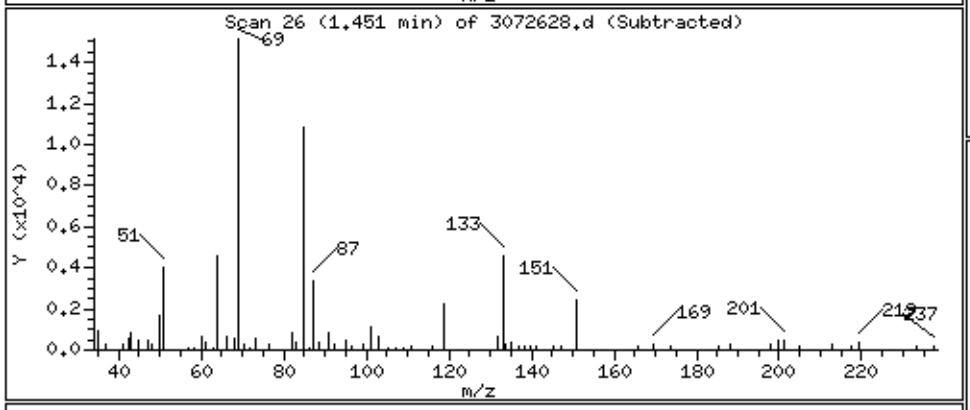
Column diameter: 0.25

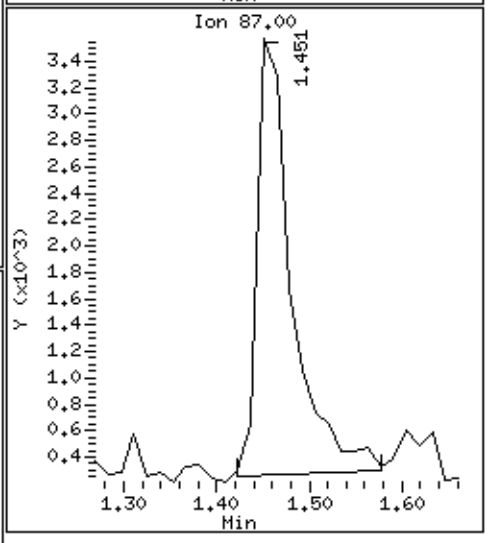
8 Freon 12

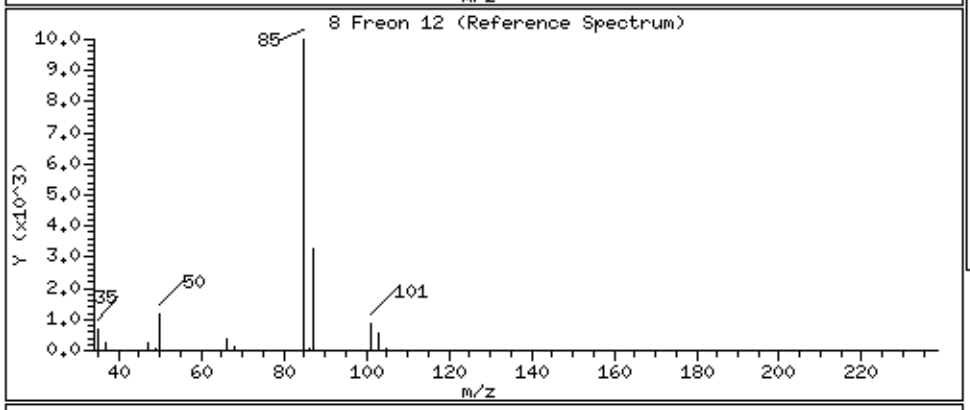
Concentration: 4.150 PPBV

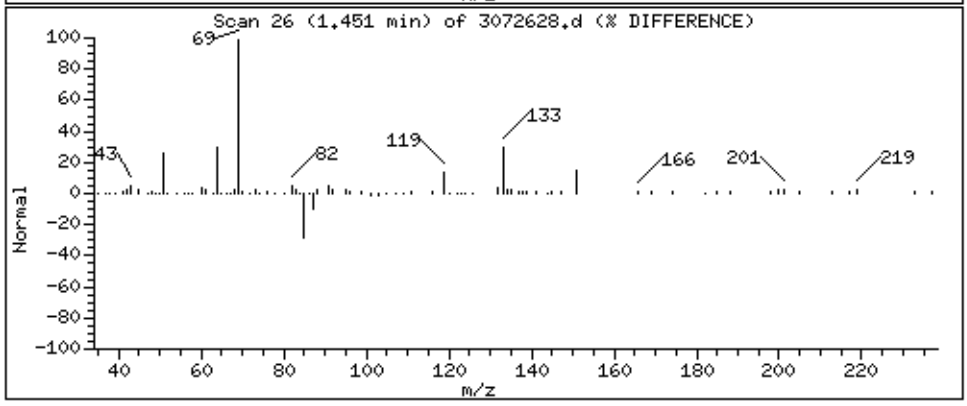












Data File: /chem/msd3.i/26JUL21.b/3072628.d

Date : 27-JUL-2021 03:19

Client ID:

Instrument: msd3.i

Sample Info: 200mL N1995

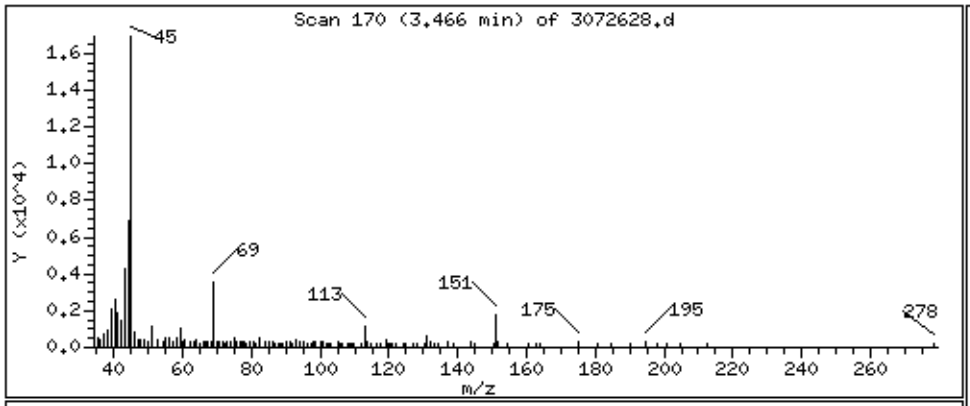
Operator: DF

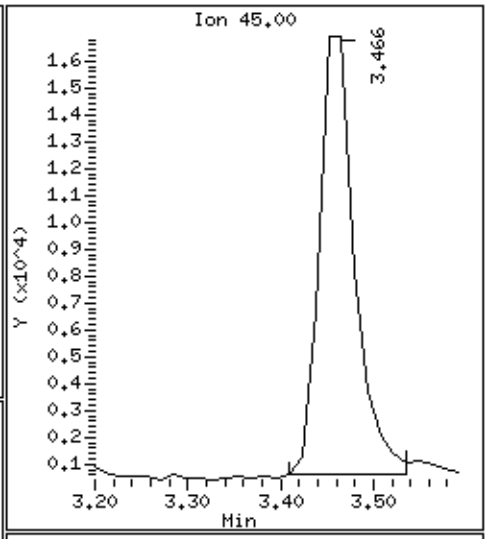
Column phase: RTX-624

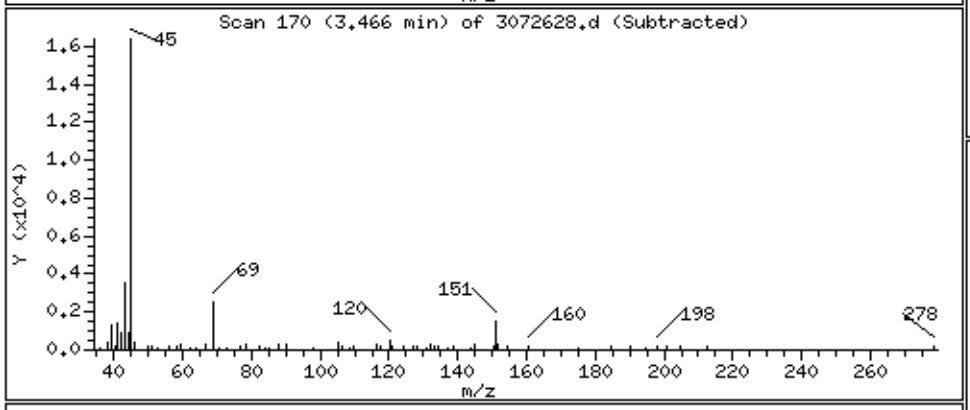
Column diameter: 0.25

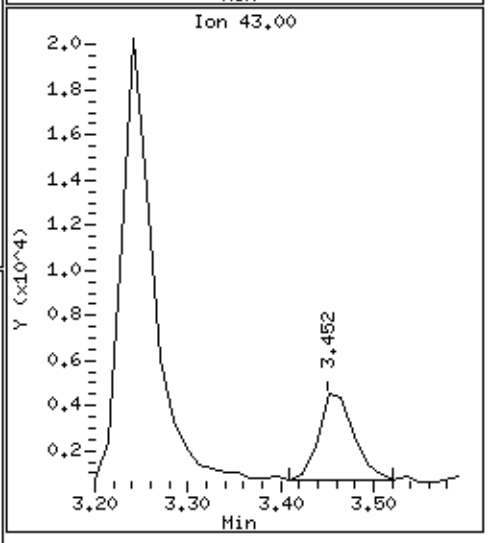
52 2-Propanol

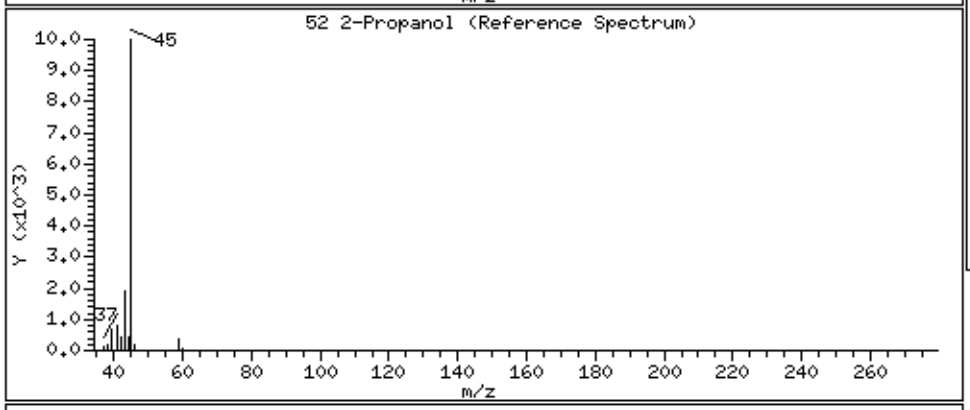
Concentration: 7.773 PPBV

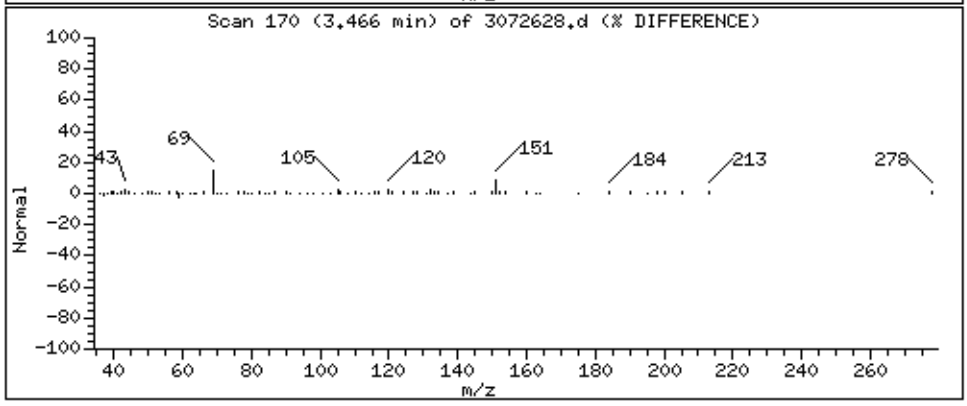












Data File: /chem/msd3.i/26JUL21.b/3072628.d

Date : 27-JUL-2021 03:19

Client ID:

Instrument: msd3.i

Sample Info: 200mL N1995

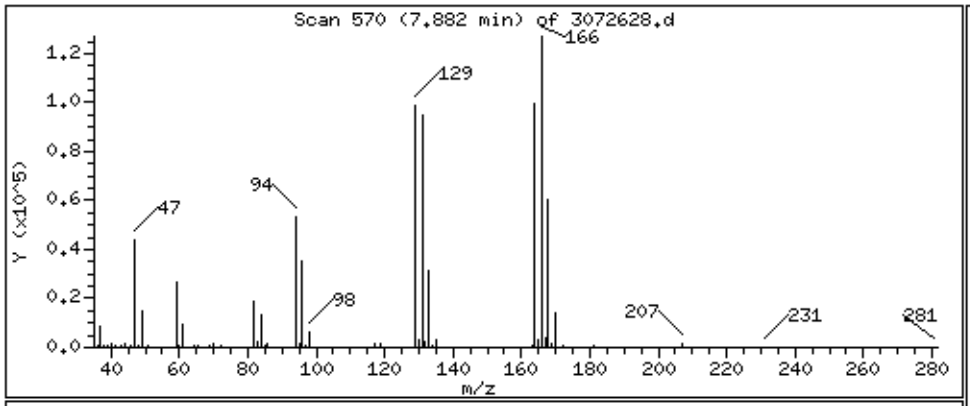
Operator: DF

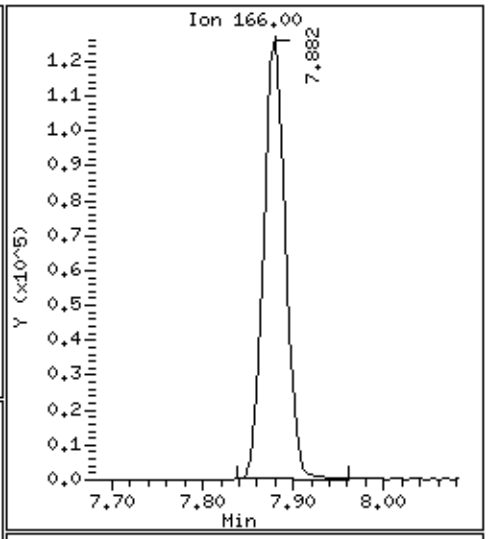
Column phase: RTX-624

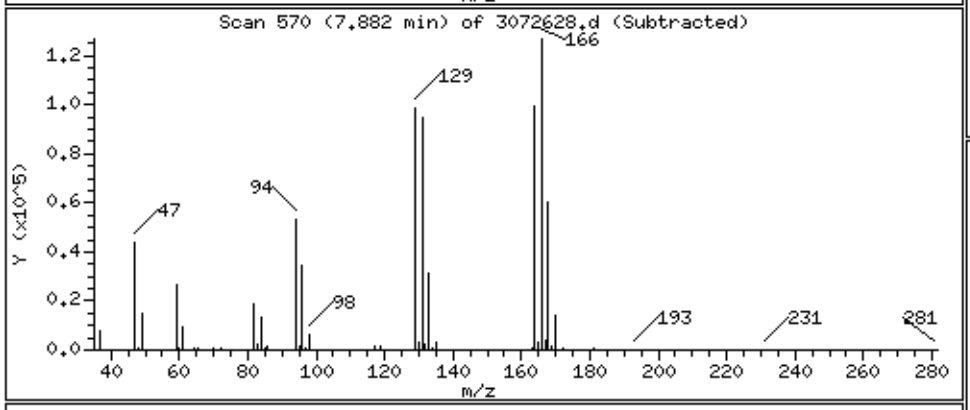
Column diameter: 0.25

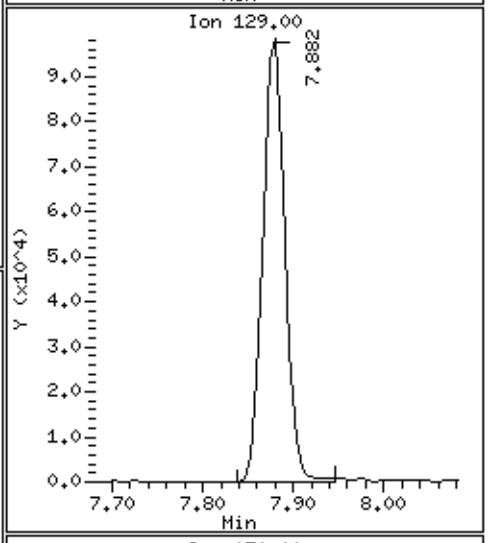
142 Tetrachloroethene

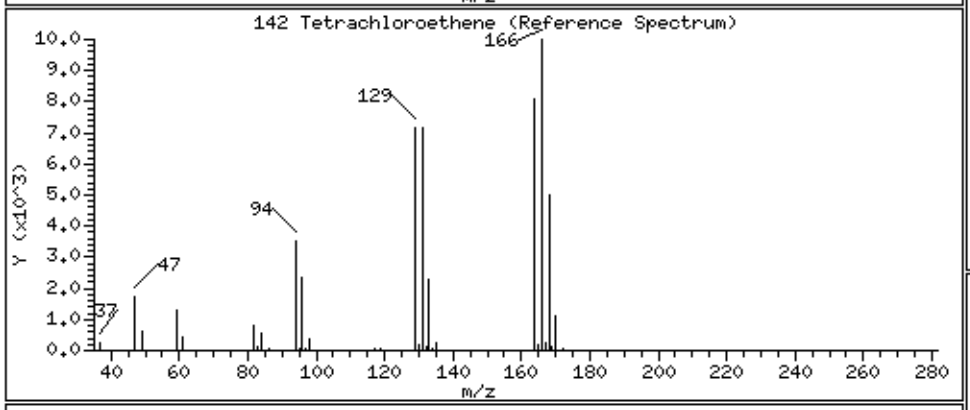
Concentration: 49.591 PPBV

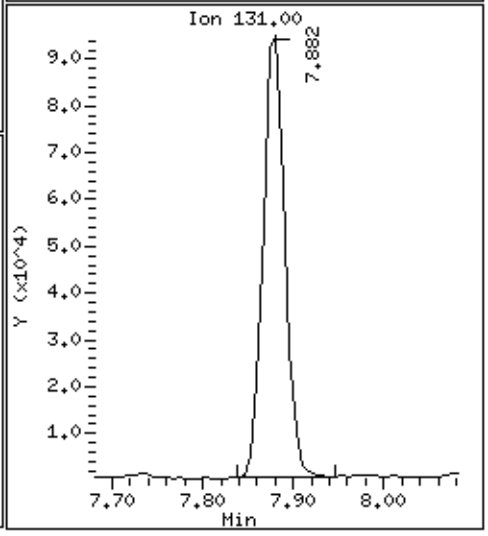


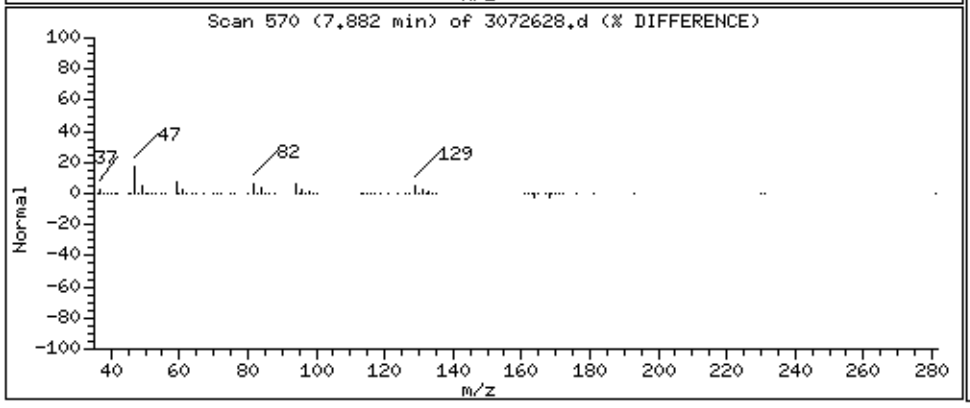












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Client Sample ID: SG-VW58A-01

Lab ID#: 2107284-21A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3072710**	**Date of Collection:**	**7/14/21 10:29:00 AM**
Dil. Factor:	**2.20**	**Date of Analysis:**	**7/27/21 05:01 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1,2-Tetrachloroethane	4.4	Not Detected	30	Not Detected
1,1,1-Trichloroethane	1.1	Not Detected	6.0	Not Detected
1,1,2,2-Tetrachloroethane	1.1	Not Detected	7.6	Not Detected
1,1,2-Trichloroethane	1.1	Not Detected	6.0	Not Detected
1,1-Dichloroethane	1.1	Not Detected	4.4	Not Detected
1,1-Dichloroethene	1.1	Not Detected	4.4	Not Detected
1,1-Difluoroethane	4.4	370	12	1000
1,2,3-Trichloropropane	4.4	Not Detected	26	Not Detected
1,2,4-Trichlorobenzene	4.4	Not Detected	33	Not Detected
1,2,4-Trimethylbenzene	1.1	3.1	5.4	15
1,2-Dibromo-3-chloropropane	4.4	Not Detected	42	Not Detected
1,2-Dibromoethane (EDB)	1.1	Not Detected	8.4	Not Detected
1,2-Dichlorobenzene	1.1	Not Detected	6.6	Not Detected
1,2-Dichloroethane	1.1	Not Detected	4.4	Not Detected
1,2-Dichloropropane	1.1	Not Detected	5.1	Not Detected
1,3,5-Trimethylbenzene	1.1	2.1	5.4	10
1,3-Butadiene	1.1	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	1.1	Not Detected	6.6	Not Detected
1,4-Dichlorobenzene	1.1	Not Detected	6.6	Not Detected
1,4-Dioxane	4.4	Not Detected	16	Not Detected
2,2,4-Trimethylpentane	1.1	5.8	5.1	27
2-Butanone (Methyl Ethyl Ketone)	4.4	Not Detected	13	Not Detected
2-Hexanone	4.4	Not Detected	18	Not Detected
2-Propanol	4.4	18	11	44
3-Chloropropene	4.4	Not Detected	14	Not Detected
4-Ethyltoluene	1.1	4.0	5.4	20
4-Methyl-2-pentanone	1.1	1.7	4.5	6.9
Acetone	11	40	26	95
Acrolein	4.4	Not Detected	10	Not Detected
Acrylonitrile	4.4	Not Detected	9.5	Not Detected
alpha-Chlorotoluene	1.1	Not Detected	5.7	Not Detected
Benzene	1.1	7.1	3.5	23
Bromodichloromethane	1.1	Not Detected	7.4	Not Detected
Bromoform	1.1	Not Detected	11	Not Detected
Bromomethane	11	Not Detected	43	Not Detected
Carbon Disulfide	4.4	9.8	14	31
Carbon Tetrachloride	1.1	Not Detected	6.9	Not Detected
Chlorobenzene	1.1	Not Detected	5.1	Not Detected
Chloroethane	4.4	Not Detected	12	Not Detected
Chloroform	1.1	Not Detected	5.4	Not Detected
Chloromethane	11	Not Detected	23	Not Detected
cis-1,2-Dichloroethene	1.1	Not Detected	4.4	Not Detected

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Client Sample ID: SG-VW58A-01

Lab ID#: 2107284-21A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3072710**	**Date of Collection:**	**7/14/21 10:29:00 AM**
Dil. Factor:	**2.20**	**Date of Analysis:**	**7/27/21 05:01 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,3-Dichloropropene	1.1	Not Detected	5.0	Not Detected
Cumene	1.1	Not Detected	5.4	Not Detected
Cyclohexane	1.1	Not Detected	3.8	Not Detected
Dibromochloromethane	1.1	Not Detected	9.4	Not Detected
Dibromomethane	4.4	Not Detected	31	Not Detected
Ethanol	11	Not Detected	21	Not Detected
Ethyl Acetate	4.4	Not Detected	16	Not Detected
Ethyl Benzene	1.1	8.5	4.8	37
Ethyl-tert-butyl ether	4.4	Not Detected	18	Not Detected
Freon 11	1.1	Not Detected	6.2	Not Detected
Freon 12	1.1	Not Detected	5.4	Not Detected
Freon 113	1.1	Not Detected	8.4	Not Detected
Freon 114	1.1	Not Detected	7.7	Not Detected
Freon 134a	4.4	Not Detected	18	Not Detected
Heptane	1.1	1.5	4.5	6.1
Hexachlorobutadiene	4.4	Not Detected	47	Not Detected
Hexachloroethane	4.4	Not Detected	43	Not Detected
Hexane	1.1	24	3.9	84
Iodomethane	11	Not Detected	64	Not Detected
Isopropyl ether	4.4	Not Detected	18	Not Detected
m,p-Xylene	1.1	24	4.8	110
Methyl tert-butyl ether	4.4	Not Detected	16	Not Detected
Methylene Chloride	11	Not Detected	38	Not Detected
Naphthalene	2.2	Not Detected	12	Not Detected
o-Xylene	1.1	8.5	4.8	37
Propylbenzene	1.1	Not Detected	5.4	Not Detected
Propylene	4.4	Not Detected	7.6	Not Detected
Styrene	1.1	Not Detected	4.7	Not Detected
tert-Amyl methyl ether	4.4	Not Detected	18	Not Detected
tert-Butyl alcohol	4.4	Not Detected	13	Not Detected
Tetrachloroethene	1.1	26	7.5	180
Tetrahydrofuran	1.1	1.8	3.2	5.3
Toluene	1.1	56	4.1	210
TPH ref. to Gasoline (MW=100)	110	360	450	1500
trans-1,2-Dichloroethene	1.1	Not Detected	4.4	Not Detected
trans-1,3-Dichloropropene	1.1	Not Detected	5.0	Not Detected
Trichloroethene	1.1	Not Detected	5.9	Not Detected
Vinyl Acetate	4.4	Not Detected	15	Not Detected
Vinyl Bromide	4.4	Not Detected	19	Not Detected
Vinyl Chloride	1.1	Not Detected	2.8	Not Detected

Container Type: 1 Liter Summa Canister

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Client Sample ID: SG-VW58A-01

Lab ID#: 2107284-21A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3072710**	**Date of Collection:**	**7/14/21 10:29:00 AM**
Dil. Factor:	**2.20**	**Date of Analysis:**	**7/27/21 05:01 PM**

Surrogates	%Recovery	Method Limits
Toluene-d8	96	70-130
1,2-Dichloroethane-d4	94	70-130
4-Bromofluorobenzene	97	70-130

US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msd3.i/27JUL21.b/3072710.d
Lab Smp Id: 2107284-21A
Inj Date : 27-JUL-2021 17:01
Operator : LD Inst ID: msd3.i
Smp Info : 200mL O0853
Misc Info : 7.1 Hg->10 psi
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msd3.i/27JUL21.b/321q0622a.m
Meth Date : 27-Jul-2021 15:31 lk8g Quant Type: ISTD
Cal Date : 23-JUN-2021 00:09 Cal File: 3062223.d
Als bottle: 1
Dil Factor: 2.20000
Integrator: HP RTE Compound Sublist: AEC25677.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE		(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 90 Bromochloromethane						CAS #: 74-97-5		
5.271	5.284 (1.000)	130	250502	25.0000			80.00- 120.00	100.00
5.271	5.284 (1.000)	128	192139				48.46- 108.46	76.70
5.271	5.270 (1.000)	49	349917				120.39- 180.39	139.69
* 108 1,4-Difluorobenzene						CAS #: 540-36-3		
6.166	6.180 (1.000)	114	830802	25.0000			80.00- 120.00	100.00
6.166	6.180 (1.000)	88	120694				0.00- 45.52	14.53
* 153 Chlorobenzene-d5						CAS #: 3114-55-4		
8.612	8.612 (1.000)	117	734750	25.0000			80.00- 120.00	100.00
8.612	8.612 (1.000)	82	386715				25.46- 85.46	52.63
$ 104 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
5.816	5.816 (1.104)	65	323340	23.4553	23.455		80.00- 120.00	100.00
5.816	5.816 (1.104)	67	154400				21.66- 81.66	47.75
$ 134 Toluene-d8						CAS #: 2037-26-5		
7.380	7.387 (1.197)	98	821954	24.0202	24.020		80.00- 120.00	100.00
7.380	7.387 (1.197)	70	94415				0.00- 41.47	11.49

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 134 Toluene-d8 (continued)							
7.380	7.387 (1.197)	100	541552			36.47- 96.47	65.89
$ 170 4-Bromofluorobenzene					CAS #: 460-00-4		
9.601	9.601 (1.115)	174	471800	24.2764	24.276	80.00- 120.00	100.00
9.601	9.601 (1.115)	95	537784			93.06- 153.06	113.99
9.601	9.601 (1.115)	176	435035			62.87- 122.87	92.21
7 1,1-Difluoroethane					CAS #: 75-37-6		
1.437	1.437 (0.273)	65	660619	167.489	368.48	80.00- 120.00	100.00
1.437	1.479 (0.273)	51	1511429			321.86- 381.86	228.79
1.437	1.451 (0.273)	47	356698			45.34- 105.34	53.99
47 Acetone					CAS #: 67-64-1		
3.242	3.214 (0.615)	58	76744	18.2707	40.196	80.00- 120.00	100.00
3.242	3.214 (0.615)	43	260723			299.66- 359.66	339.73
48 Carbon Disulfide					CAS #: 75-15-0		
3.284	3.298 (0.623)	76	84518	4.46838	9.830	80.00- 120.00	100.00
52 2-Propanol					CAS #: 67-63-0		
3.466	3.409 (0.658)	45	122372	8.10081	17.822	80.00- 120.00	100.00
3.466	3.395 (0.658)	43	25767			0.00- 48.61	21.06
67 Hexane					CAS #: 110-54-3		
4.165	4.179 (0.790)	57	149826	10.8006	23.761	80.00- 120.00	100.00
4.165	4.179 (0.790)	43	94293			32.99- 92.99	62.93
4.165	4.179 (0.790)	86	20242			0.00- 42.56	13.51
89 Tetrahydrofuran					CAS #: 109-99-9		
5.285	5.270 (1.003)	42	8133	0.81419	1.791	80.00- 120.00	100.00
5.285	5.270 (1.003)	71	2742			2.92- 62.92	33.72
5.285	5.270 (1.003)	72	3308			3.54- 63.54	40.68
101 2,2,4-Trimethylpentane					CAS #: 540-84-1		
5.760	5.774 (1.093)	57	113812	2.62356	5.772	80.00- 120.00	100.00
5.760	5.774 (1.093)	56	38977			1.12- 61.12	34.25
5.760	5.774 (1.093)	41	37659			0.00- 57.49	33.09
102 Benzene					CAS #: 71-43-2		
5.788	5.788 (0.939)	78	61255	3.23097	7.108	80.00- 120.00	100.00
5.788	5.788 (0.939)	77	16267			0.00- 53.80	26.56
107 Heptane					CAS #: 142-82-5		
5.942	5.942 (0.964)	71	5074	0.67948	1.495	80.00- 120.00	100.00
5.928	5.942 (0.961)	43	6106			179.02- 239.02	120.33

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
107 Heptane (continued)							
5.942	5.942 (0.964)	57	3597			84.85- 144.85	70.90
131 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.323	7.316 (1.188)	58	6199	0.76981	1.694	80.00- 120.00	100.00
7.323	7.316 (1.188)	43	15193			231.30- 291.30	245.08
7.323	7.316 (1.188)	85	2987			8.94- 68.94	48.19
137 Toluene					CAS #: 108-88-3		
7.437	7.437 (1.206)	91	650565	25.5739	56.262	80.00- 120.00	100.00
7.437	7.437 (1.206)	92	372133			28.30- 88.30	57.20
142 Tetrachloroethene					CAS #: 127-18-4		
7.874	7.881 (0.914)	166	136054	11.8198	26.004	80.00- 120.00	100.00
7.874	7.881 (0.914)	129	104410			48.71- 108.71	76.74
7.874	7.874 (0.914)	131	100236			46.55- 106.55	73.67
155 Ethyl Benzene					CAS #: 100-41-4		
8.684	8.684 (1.008)	106	38680	3.85199	8.474	80.00- 120.00	100.00
8.684	8.684 (1.008)	91	120795			282.48- 342.48	312.29
158 m,p-Xylene					CAS #: 108-38-3		
8.777	8.784 (1.019)	106	139185	11.1415	24.511	80.00- 120.00	100.00
8.784	8.784 (1.020)	91	274285			171.36- 231.36	197.06
164 o-Xylene					CAS #: 95-47-6		
9.121	9.121 (1.059)	106	45893	3.86969	8.513	80.00- 120.00	100.00
9.121	9.121 (1.059)	91	92260			179.99- 239.99	201.03
183 4-Ethyltoluene					CAS #: 622-96-8		
9.823	9.851 (1.141)	120	20700	1.82532	4.016	80.00- 120.00	100.00
9.823	9.851 (1.141)	105	63968			296.79- 356.79	309.01
185 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
9.902	9.901 (1.150)	120	15321	0.96187	2.116	80.00- 120.00	100.00
9.902	9.901 (1.150)	105	29015			176.40- 236.40	189.37
190 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
10.224	10.224 (1.187)	105	43961	1.39965	3.079	80.00- 120.00	100.00
10.224	10.224 (1.187)	120	20042			16.58- 76.58	45.59

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd3.i
Lab File ID: 3072710.d
Lab Smp Id: 2107284-21A
Analysis Type: VOA
Quant Type: ISTD
Operator: LD
Method File: /chem/msd3.i/27JUL21.b/321q0622a.m
Misc Info: 7.1 Hg->10 psi

Calibration Date: 27-JUL-2021
Calibration Time: 11:36
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	238986	143392	334580	250502	4.82
108 1,4-Difluorobenze	785289	471173	1099405	830802	5.80
153 Chlorobenzene-d5	683596	410158	957034	734750	7.48

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.28	4.95	5.61	5.27	-0.26
108 1,4-Difluorobenze	6.18	5.85	6.51	6.17	-0.22
153 Chlorobenzene-d5	8.61	8.28	8.94	8.61	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 28-Jul-2021 16:03

US32TAR1

RECOVERY REPORT

Client Name: Client SDG: 27JUL21
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 2107284-21A
Level: LOW Operator: LD
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT20_new.spk Quant Type: ISTD
Sublist File: AEC25677.sub
Method File: /chem/msd3.i/27JUL21.b/321q0622a.m
Misc Info: 7.1 Hg->10 psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 104 1,2-Dichloroethan	25.000	23.455	93.82	70-130
$ 134 Toluene-d8	25.000	24.020	96.08	70-130
$ 170 4-Bromofluorobenz	25.000	24.276	97.11	70-130

Data File: /chem/msd3.i/27JUL21.b/3072710.d

Date : 27-JUL-2021 17:01

Client ID:

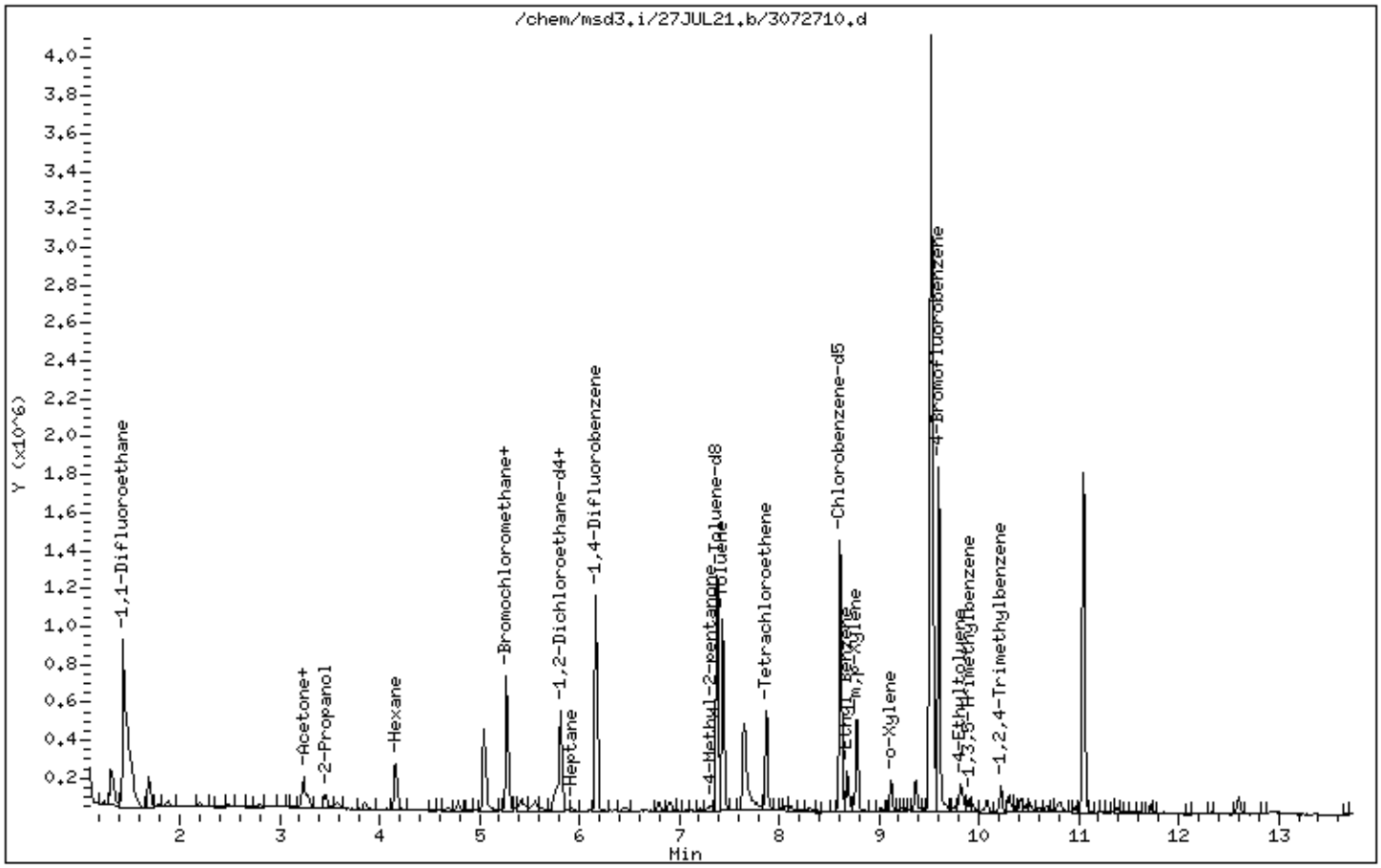
Instrument: msd3.i

Sample Info: 200mL 00853

Operator: LD

Column phase: RTX-624

Column diameter: 0.25



Data File: /chem/msd3.i/27JUL21.b/3072710.d

Date : 27-JUL-2021 17:01

Client ID:

Instrument: msd3.i

Sample Info: 200mL 00853

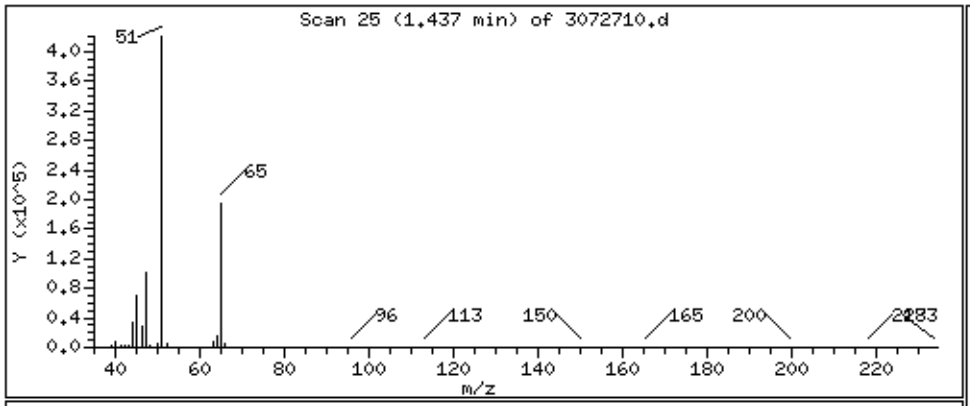
Operator: LD

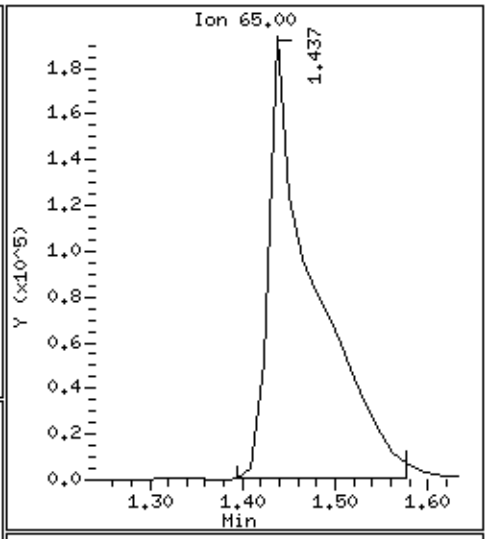
Column phase: RTX-624

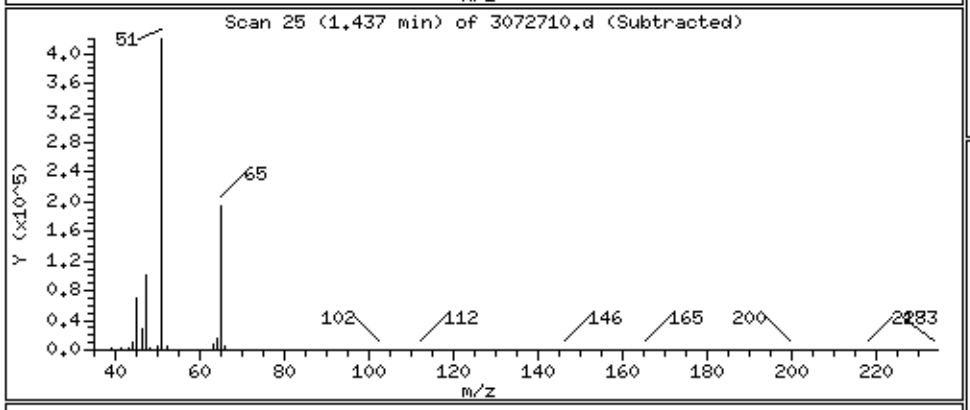
Column diameter: 0.25

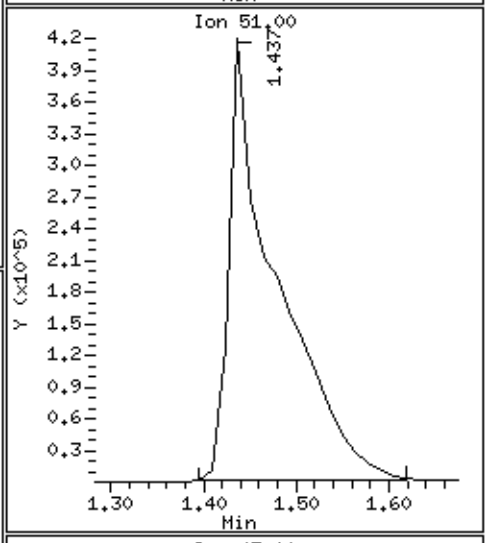
7 1,1-Difluoroethane

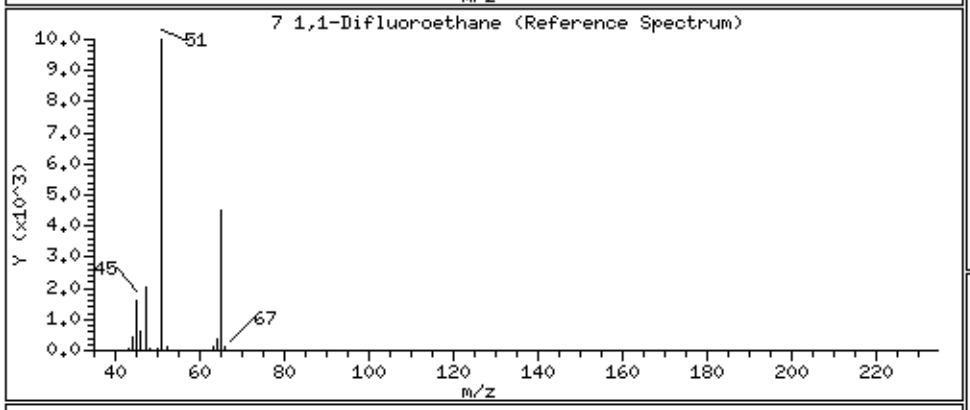
Concentration: 368.48 PPBV

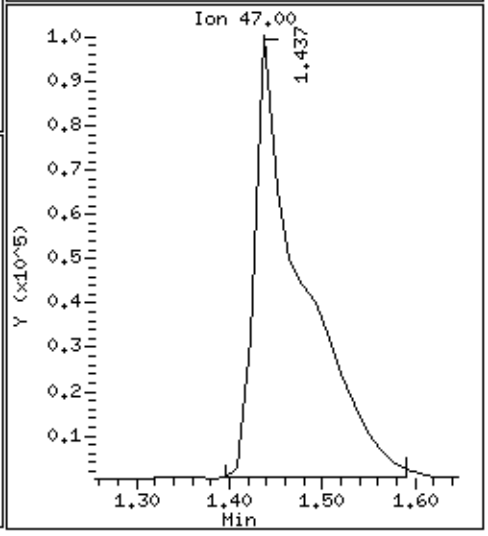


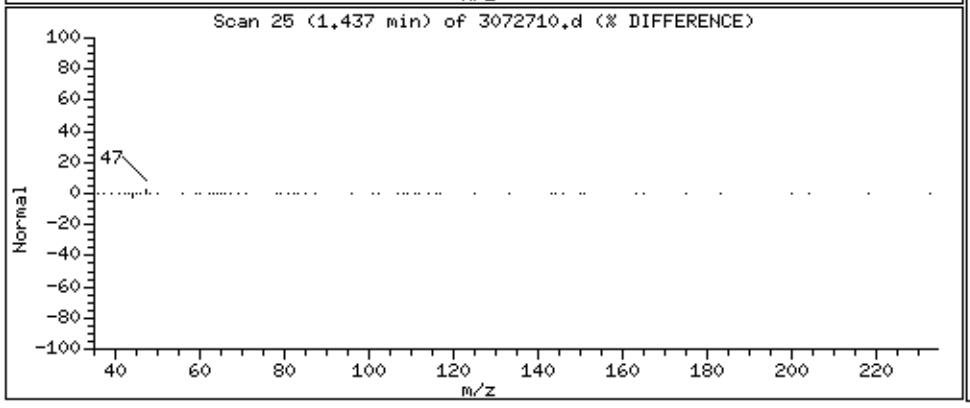












Data File: /chem/msd3.i/27JUL21.b/3072710.d

Date : 27-JUL-2021 17:01

Client ID:

Instrument: msd3.i

Sample Info: 200mL 00853

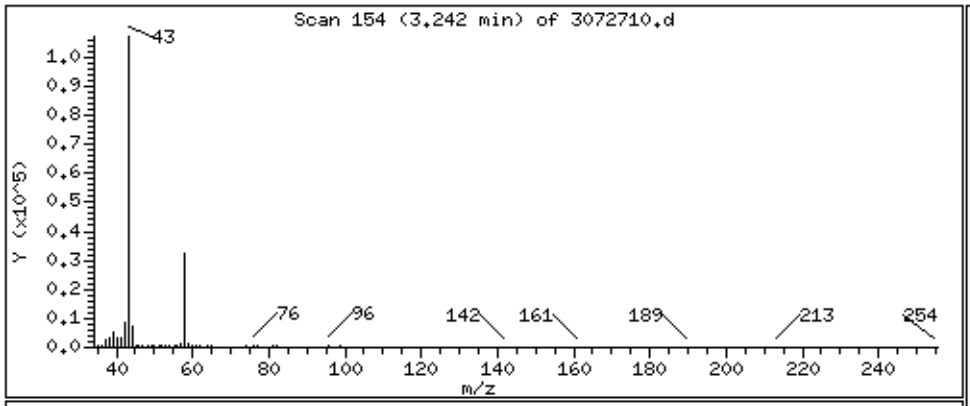
Operator: LD

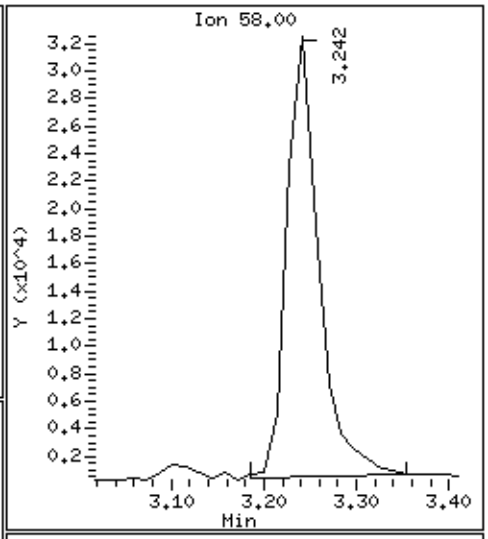
Column phase: RTX-624

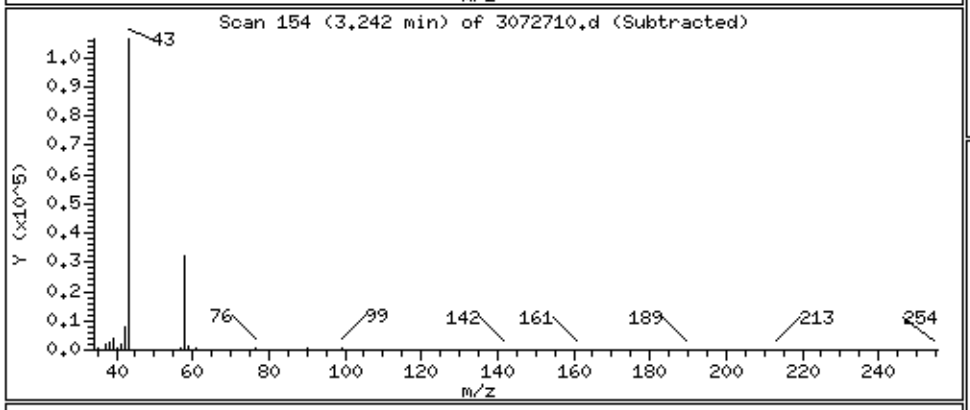
Column diameter: 0.25

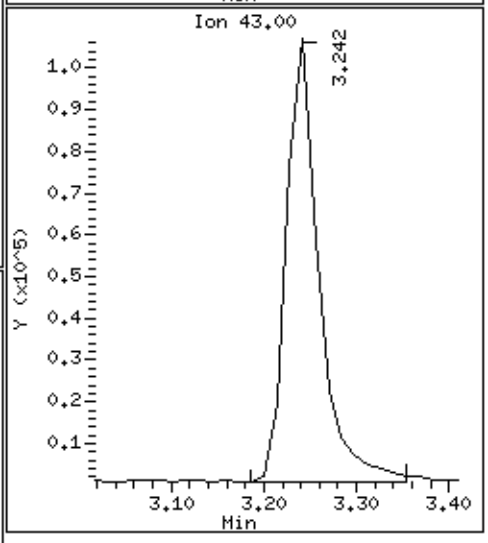
47 Acetone

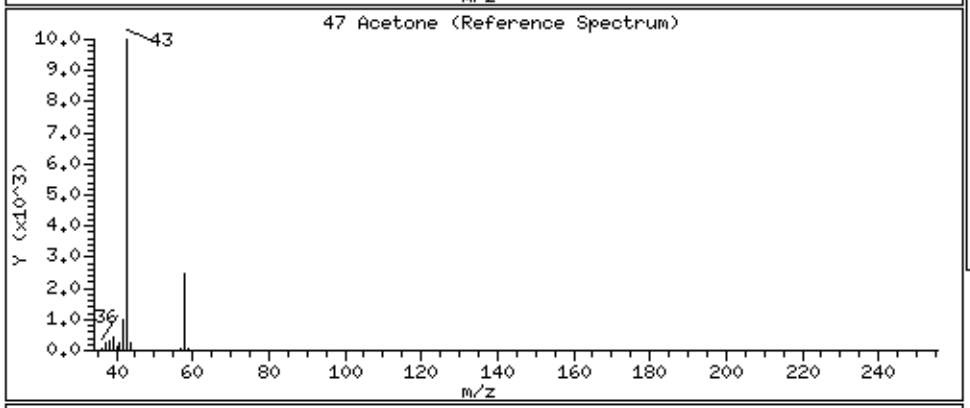
Concentration: 40.196 PPBV

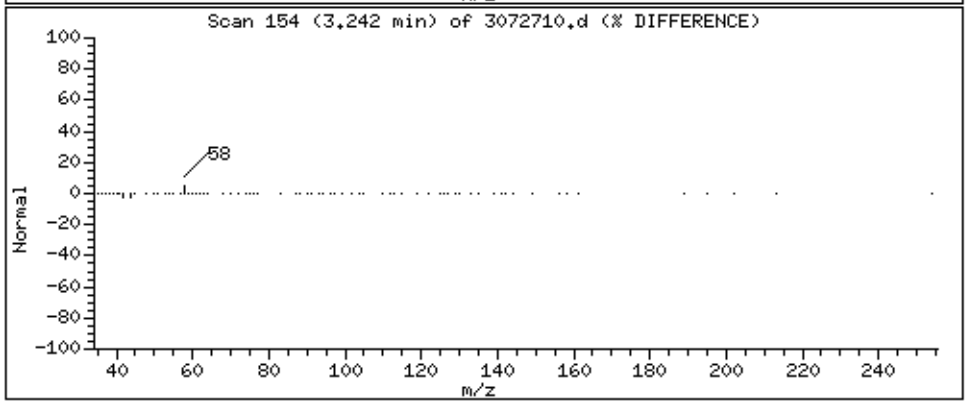












Data File: /chem/msd3.i/27JUL21.b/3072710.d

Date : 27-JUL-2021 17:01

Client ID:

Instrument: msd3.i

Sample Info: 200mL 00853

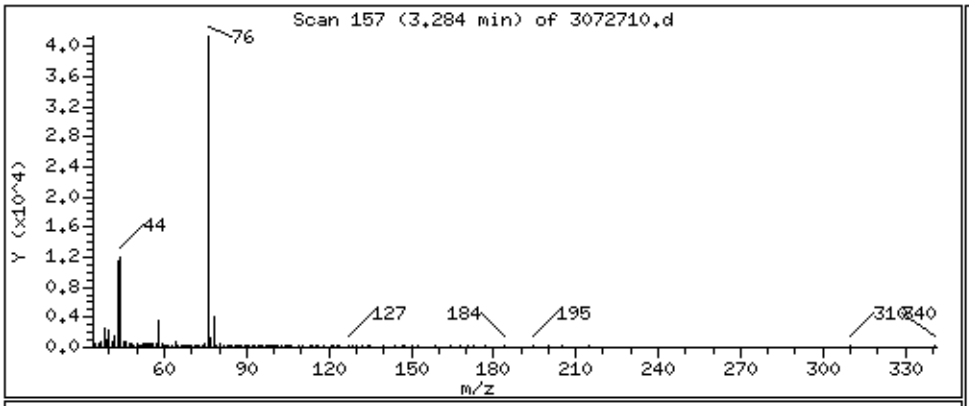
Operator: LD

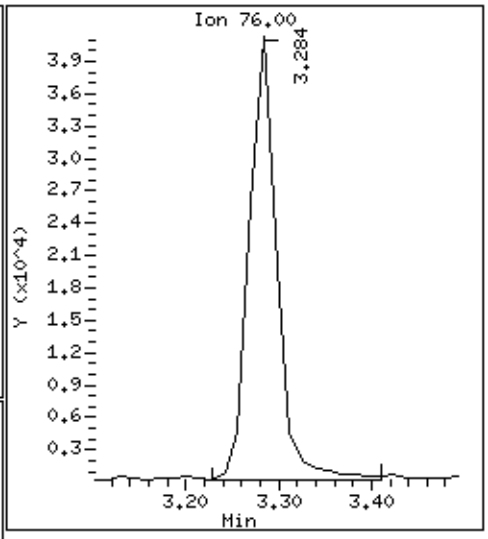
Column phase: RTX-624

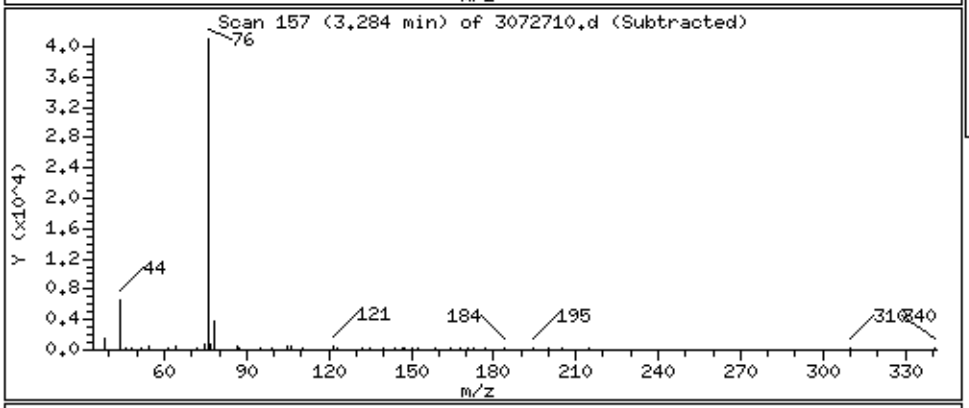
Column diameter: 0.25

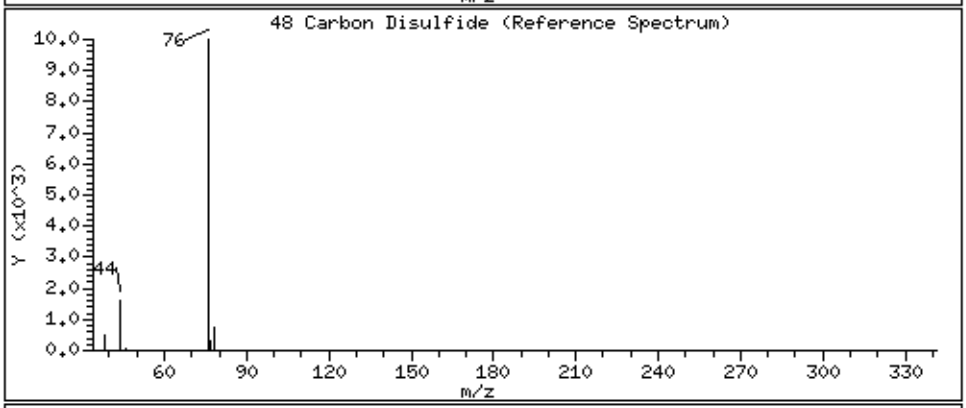
48 Carbon Disulfide

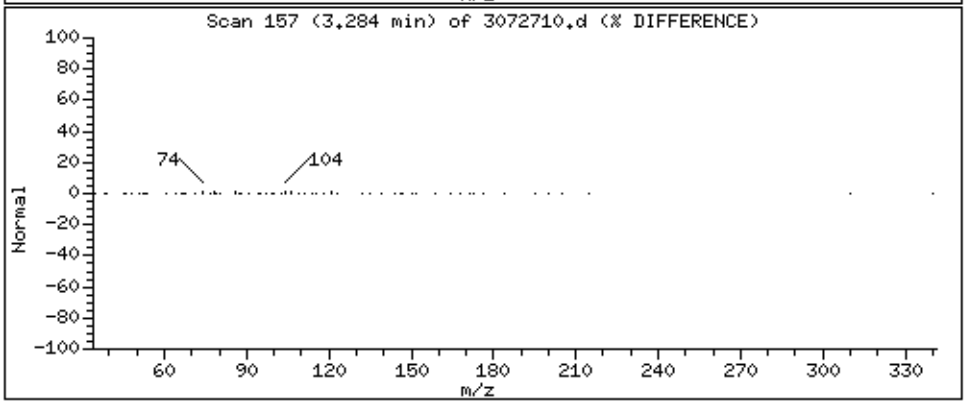
Concentration: 9.830 PPBV











Data File: /chem/msd3.i/27JUL21.b/3072710.d

Date : 27-JUL-2021 17:01

Client ID:

Instrument: msd3.i

Sample Info: 200mL 00853

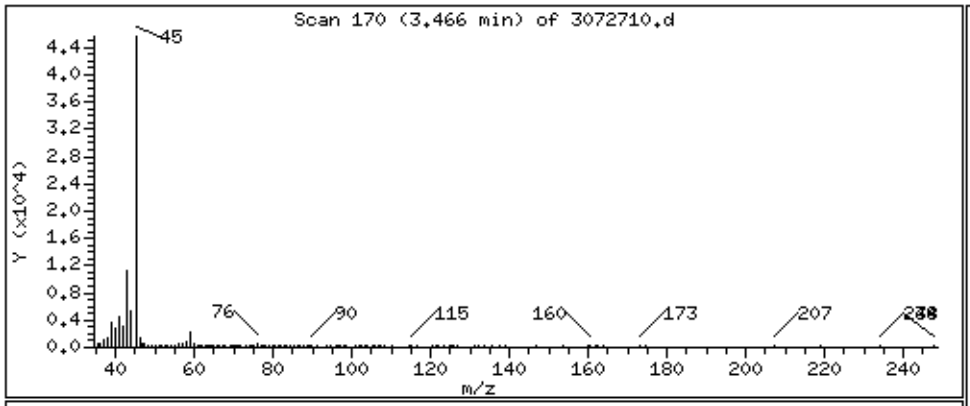
Operator: LD

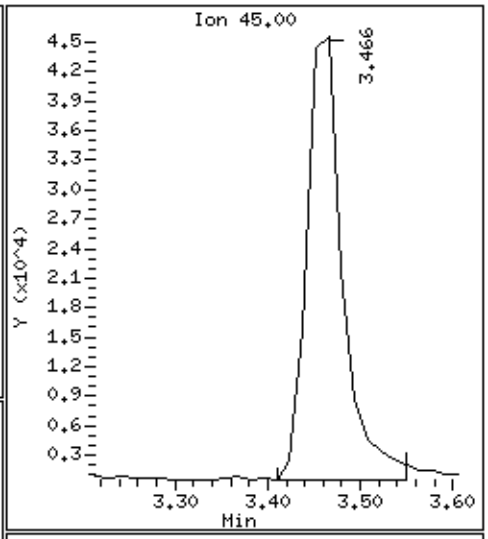
Column phase: RTX-624

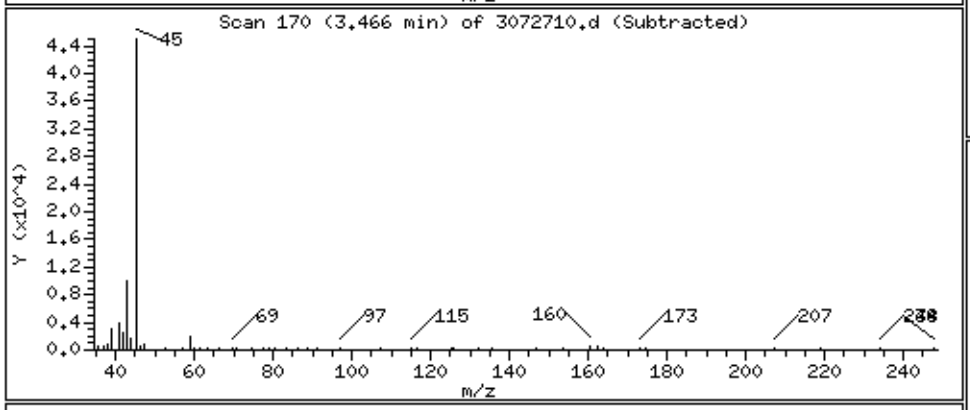
Column diameter: 0.25

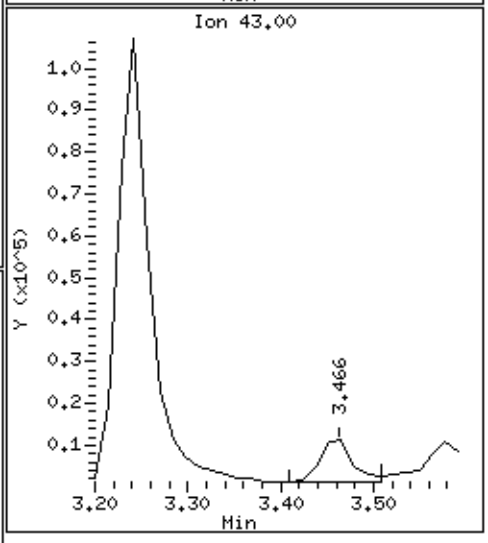
52 2-Propanol

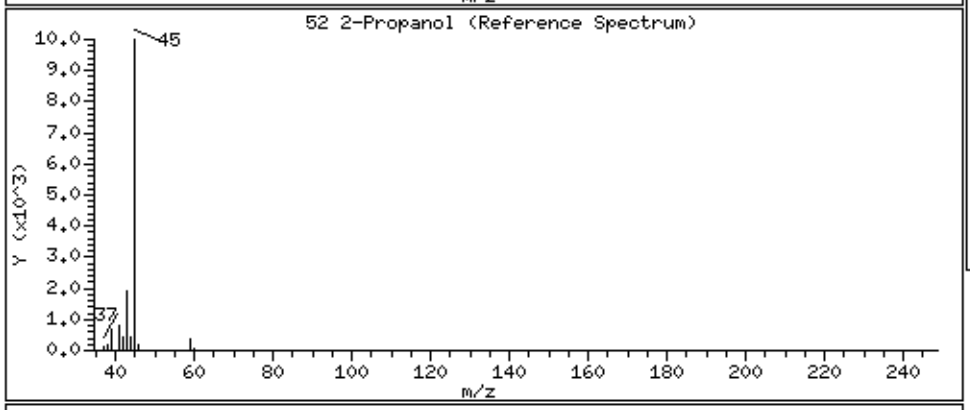
Concentration: 17.822 PPBV

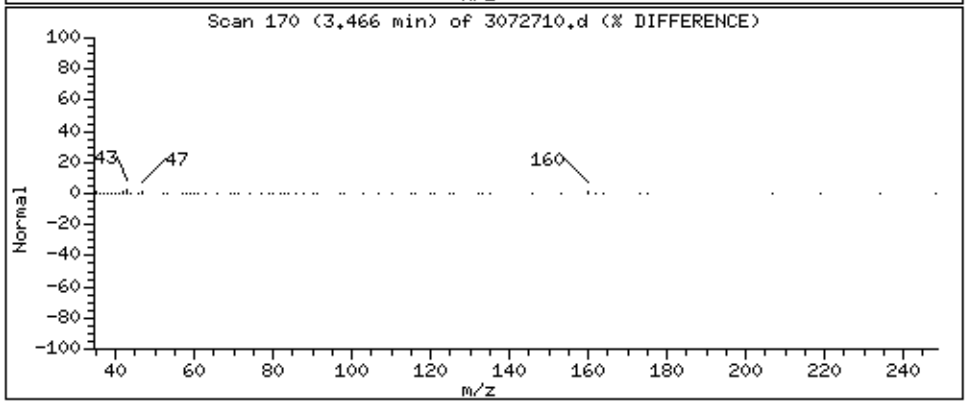












Data File: /chem/msd3.i/27JUL21.b/3072710.d

Date : 27-JUL-2021 17:01

Client ID:

Instrument: msd3.i

Sample Info: 200mL 00853

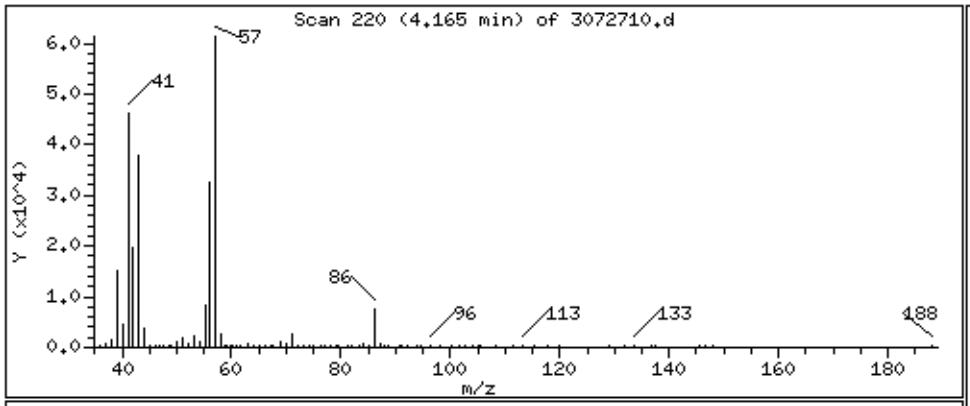
Operator: LD

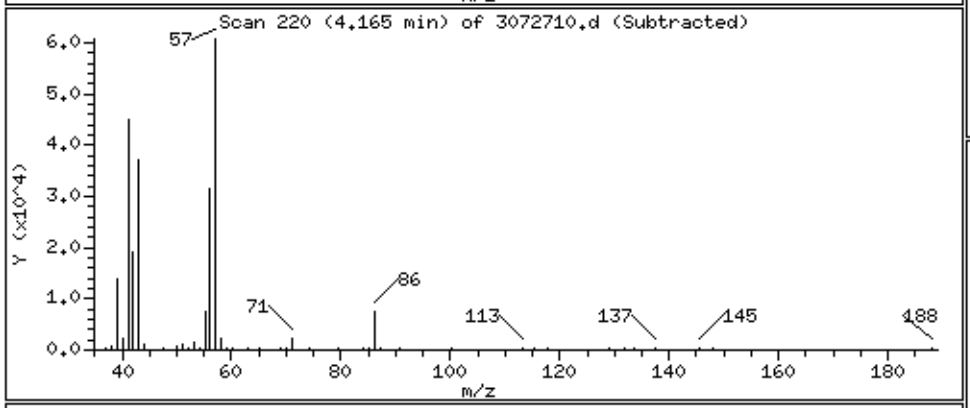
Column phase: RTX-624

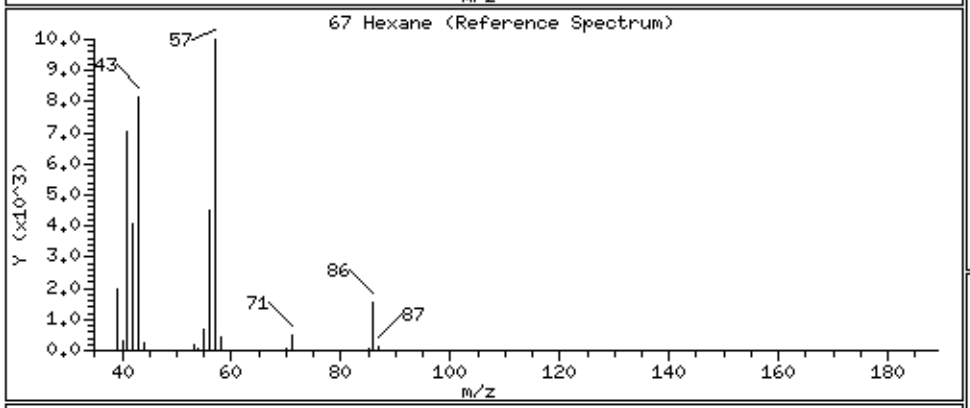
Column diameter: 0.25

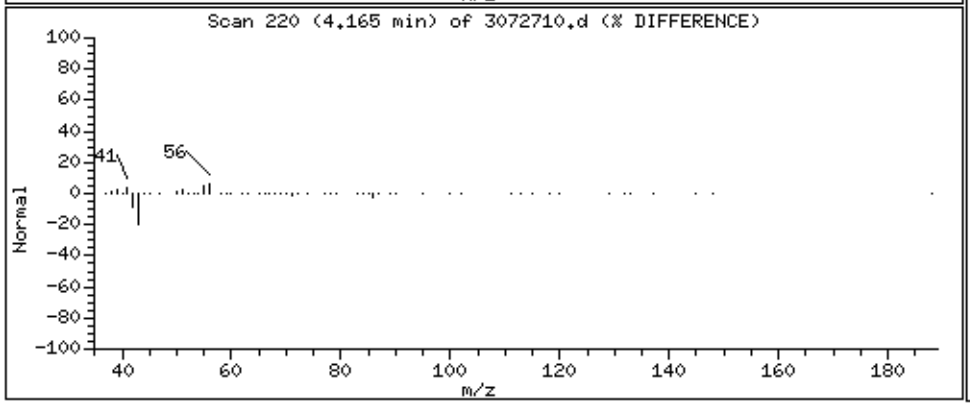
67 Hexane

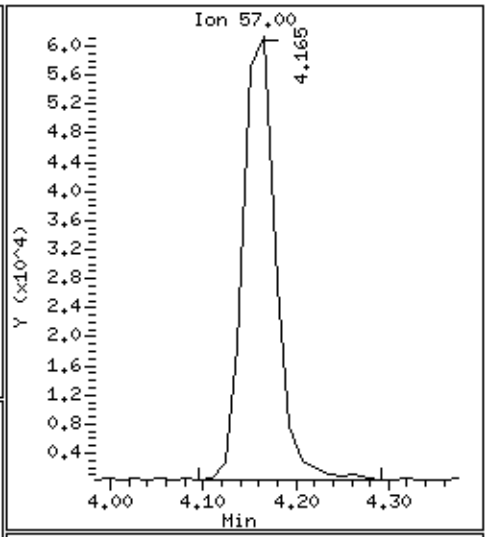
Concentration: 23.761 PPBV

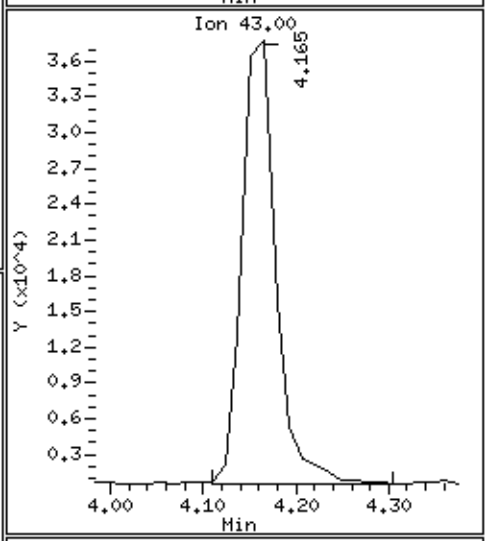


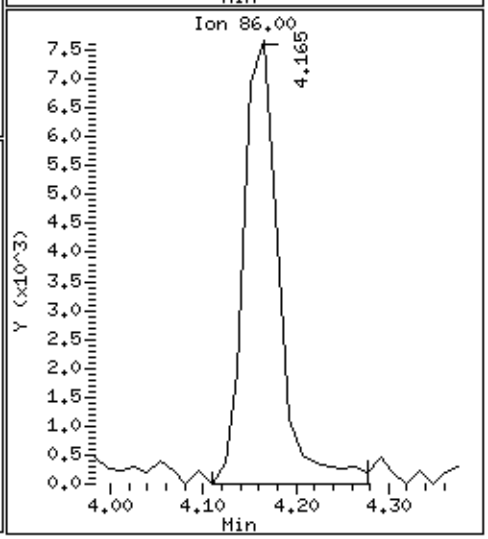












Data File: /chem/msd3.i/27JUL21.b/3072710.d

Date : 27-JUL-2021 17:01

Client ID:

Instrument: msd3.i

Sample Info: 200mL 00853

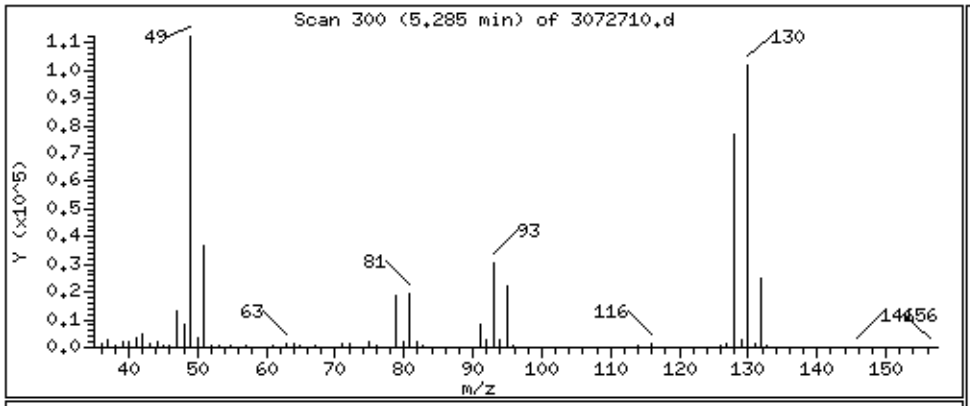
Operator: LD

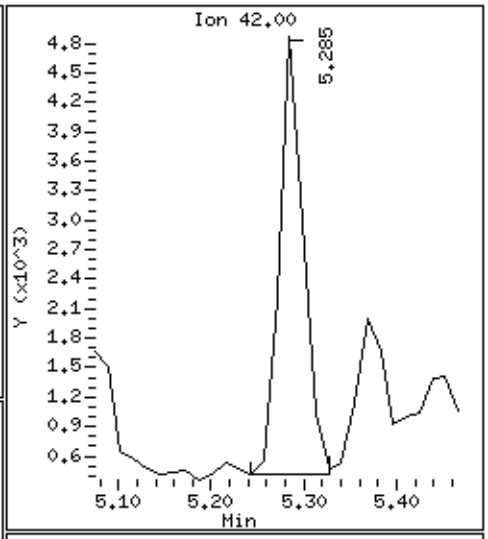
Column phase: RTX-624

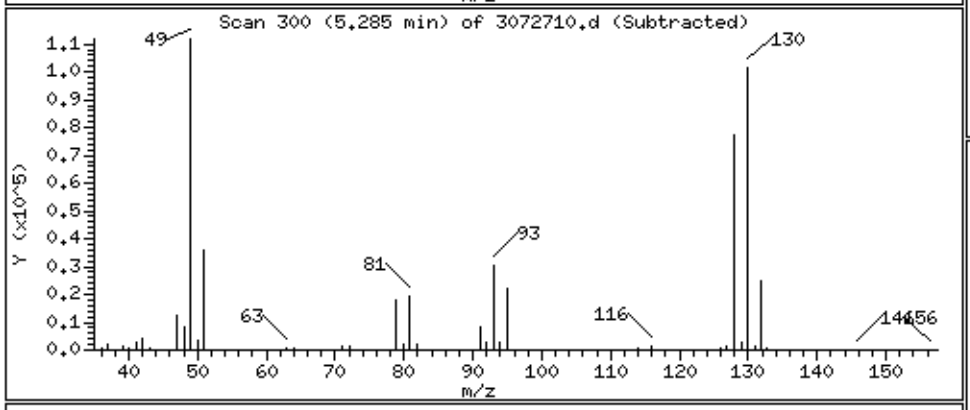
Column diameter: 0.25

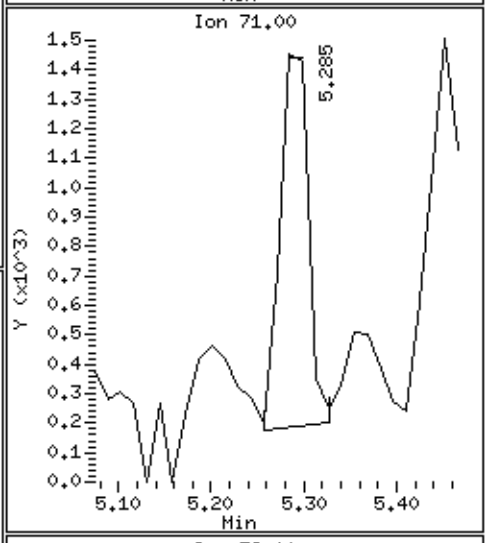
89 Tetrahydrofuran

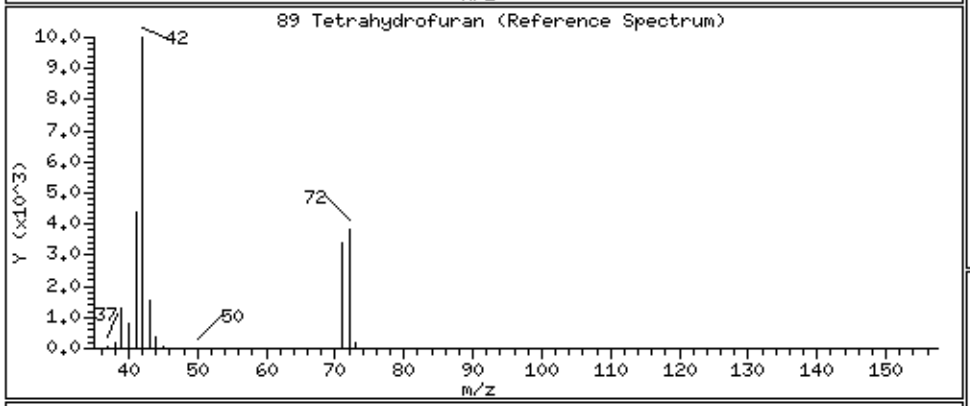
Concentration: 1.791 PPBV

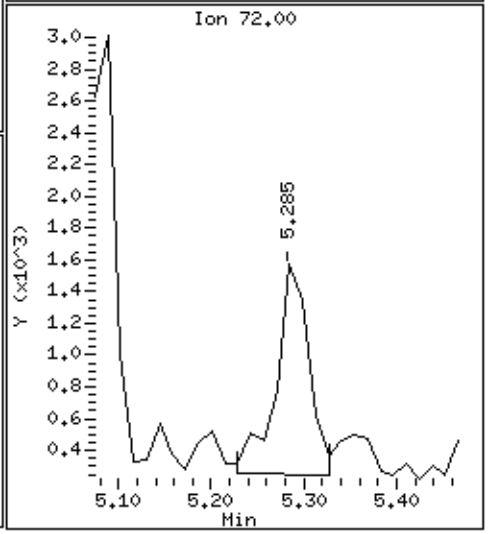


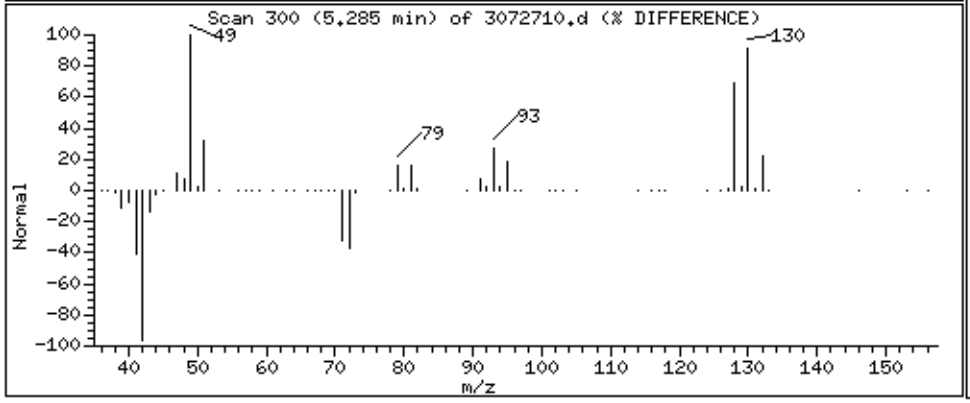












Data File: /chem/msd3.i/27JUL21.b/3072710.d

Date : 27-JUL-2021 17:01

Client ID:

Instrument: msd3.i

Sample Info: 200mL 00853

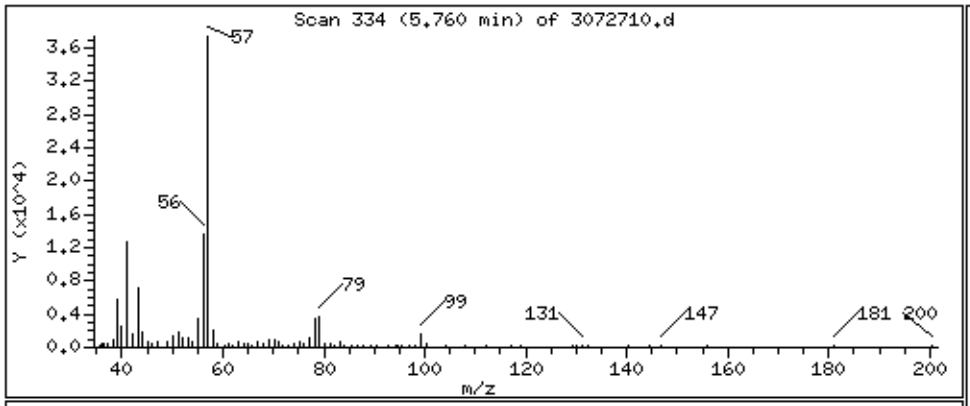
Operator: LD

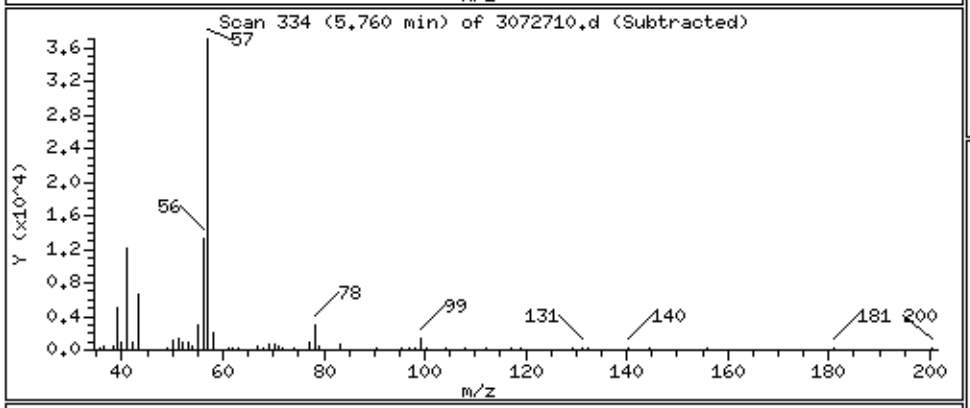
Column phase: RTX-624

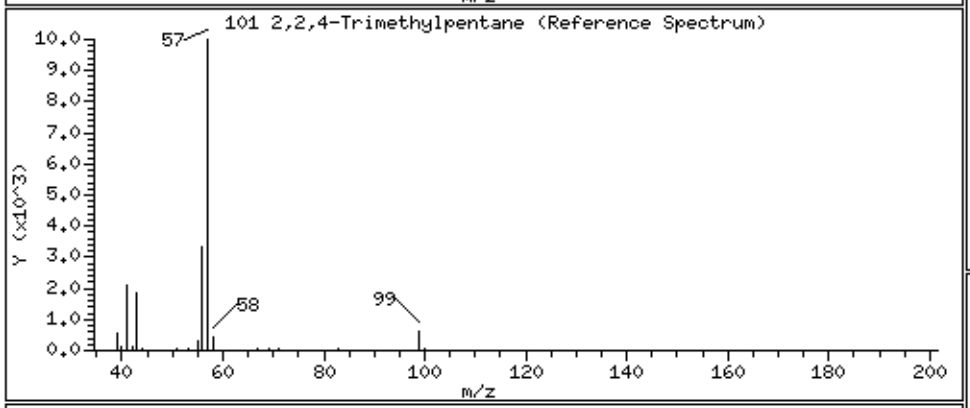
Column diameter: 0.25

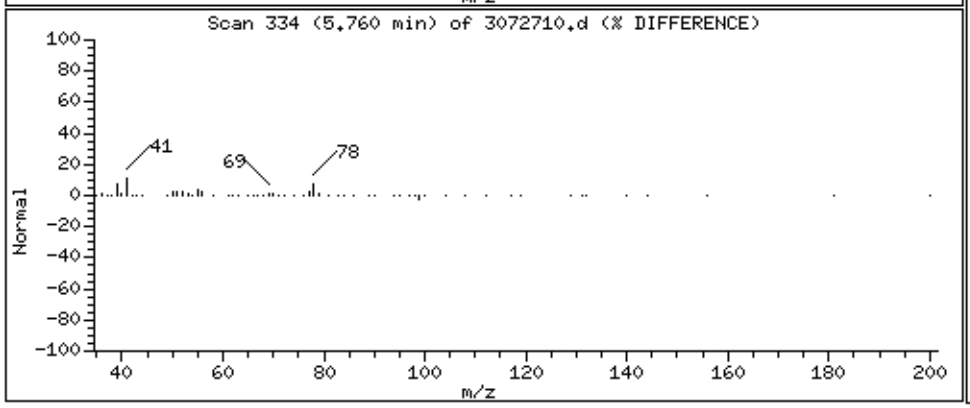
101 2,2,4-Trimethylpentane

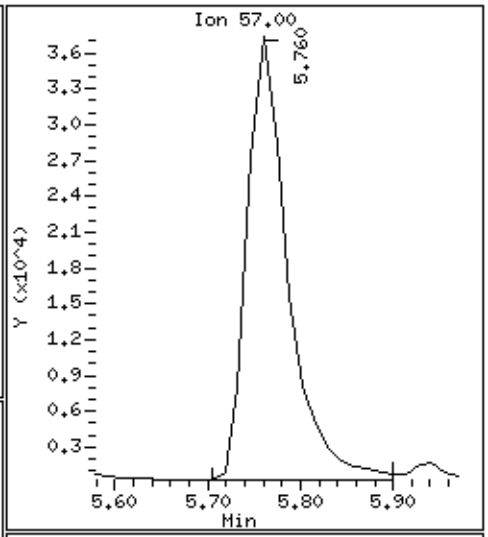
Concentration: 5.772 PPBV

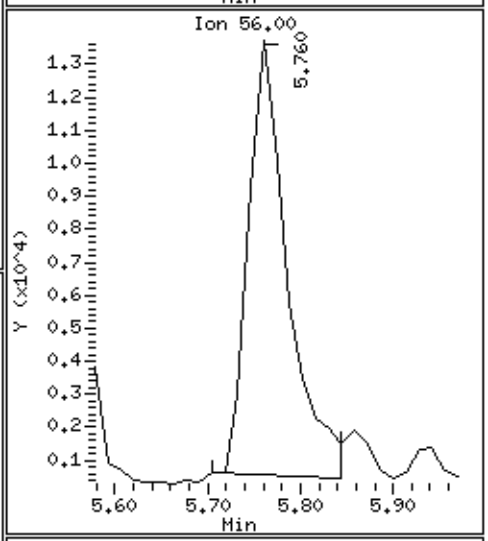


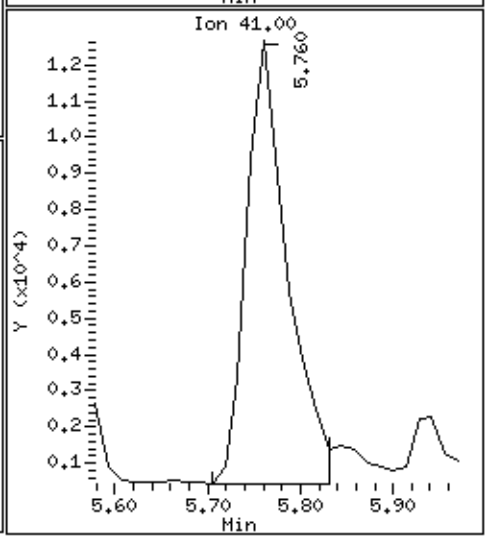












Data File: /chem/msd3.i/27JUL21.b/3072710.d

Date : 27-JUL-2021 17:01

Client ID:

Instrument: msd3.i

Sample Info: 200mL 00853

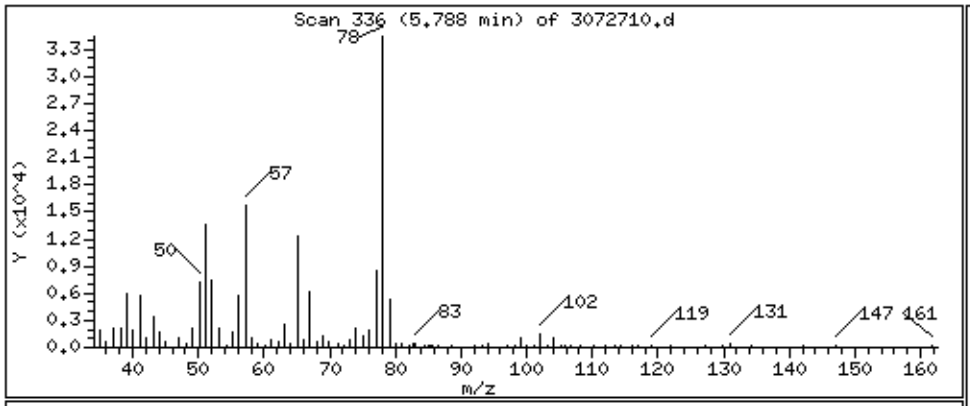
Operator: LD

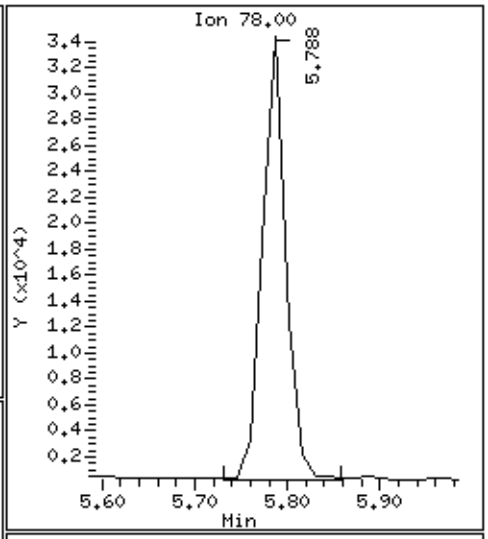
Column phase: RTX-624

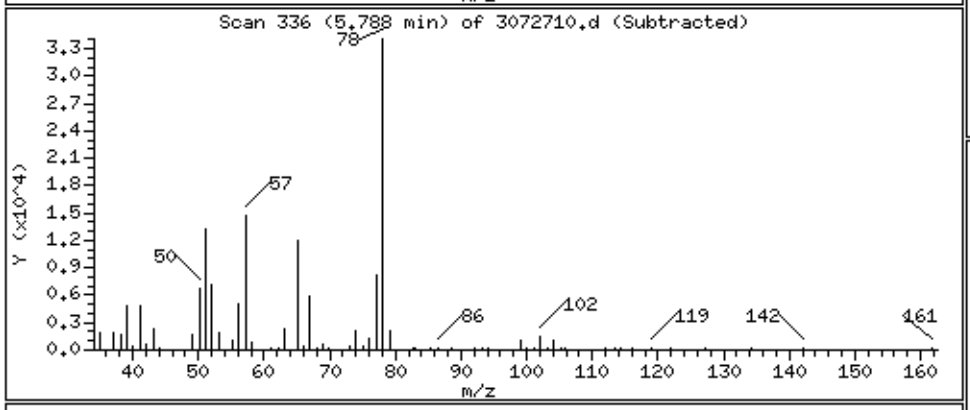
Column diameter: 0.25

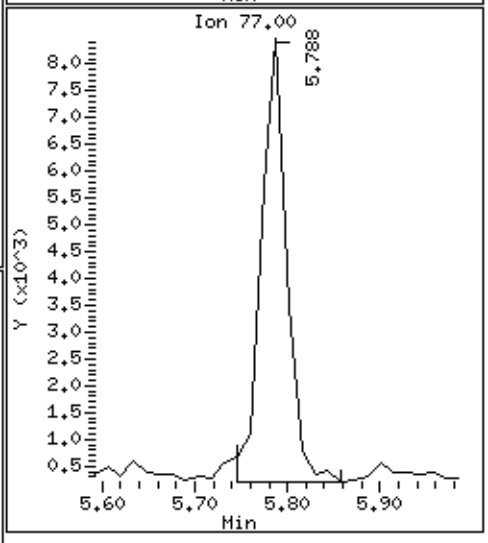
102 Benzene

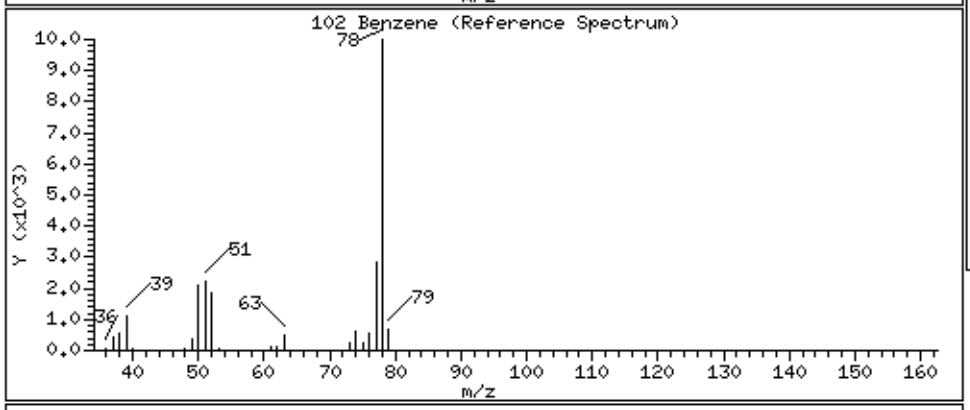
Concentration: 7.108 PPBV

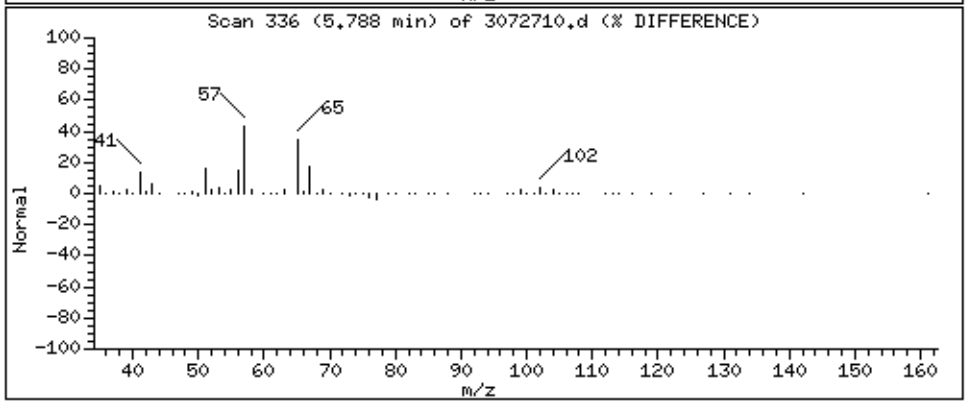












Data File: /chem/msd3.i/27JUL21.b/3072710.d

Date : 27-JUL-2021 17:01

Client ID:

Instrument: msd3.i

Sample Info: 200mL 00853

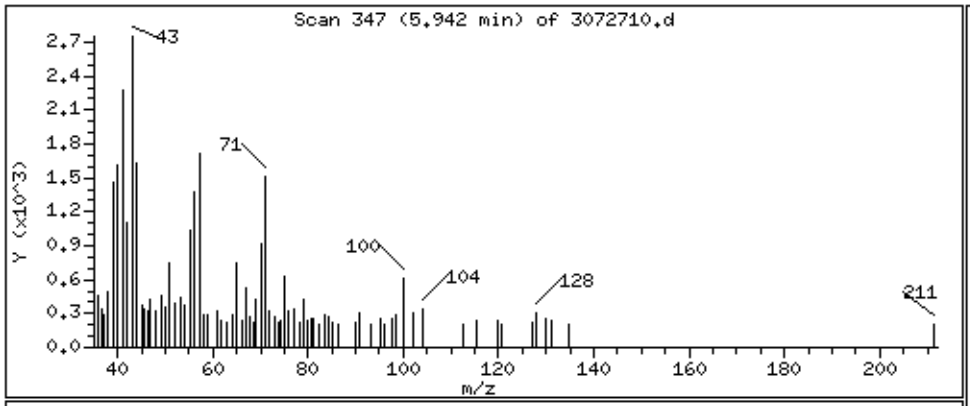
Operator: LD

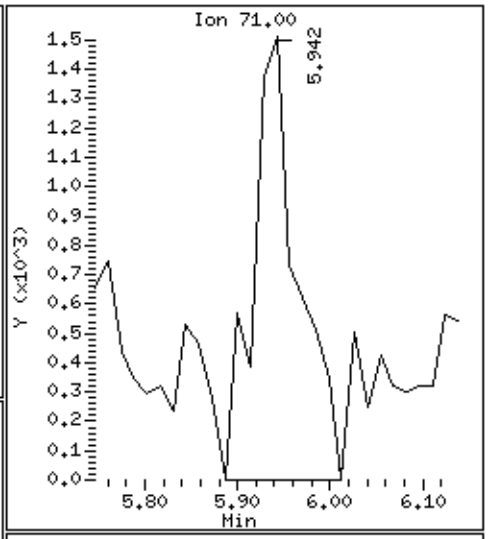
Column phase: RTX-624

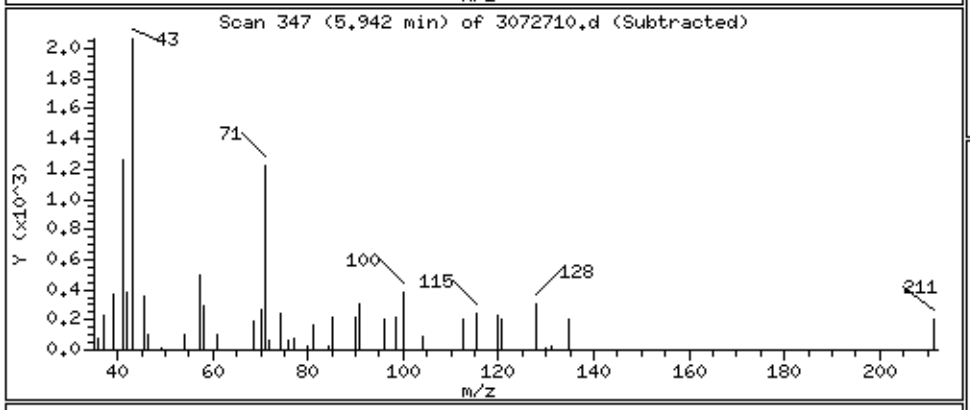
Column diameter: 0.25

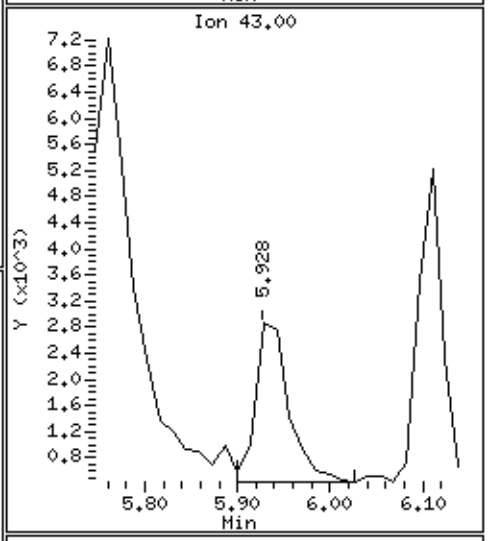
107 Heptane

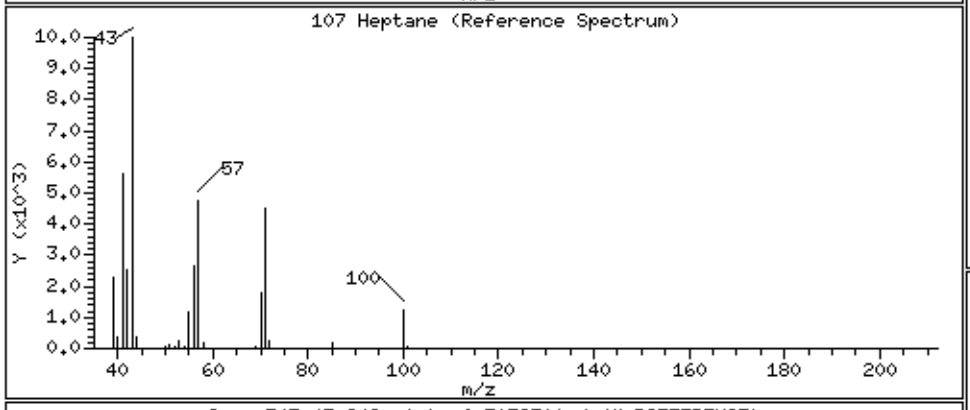
Concentration: 1.495 PPBV

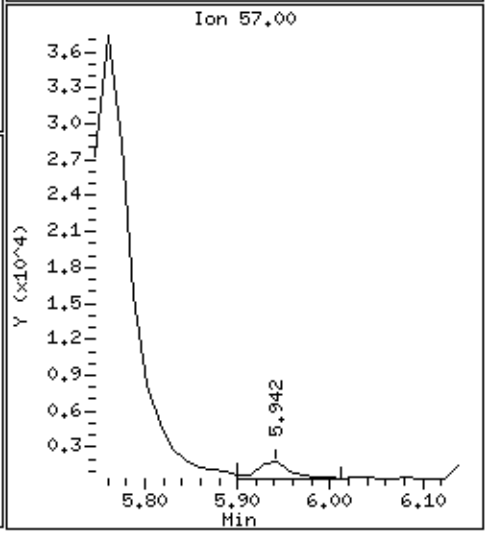


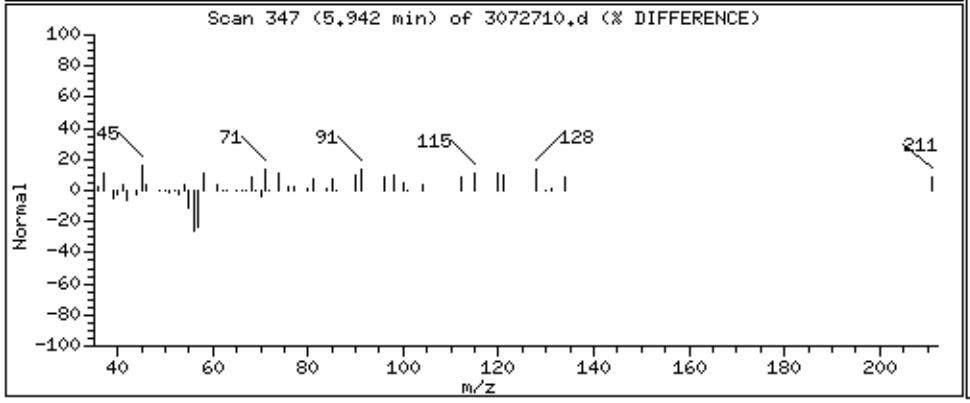












Data File: /chem/msd3.i/27JUL21.b/3072710.d

Date : 27-JUL-2021 17:01

Client ID:

Instrument: msd3.i

Sample Info: 200mL 00853

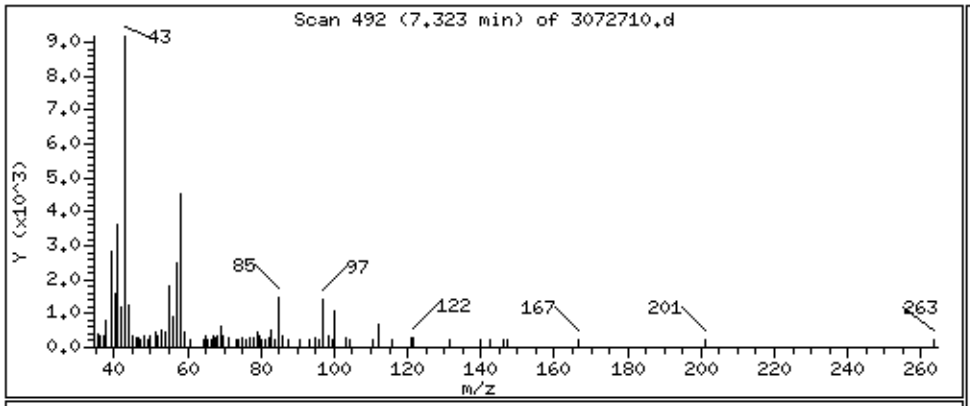
Operator: LD

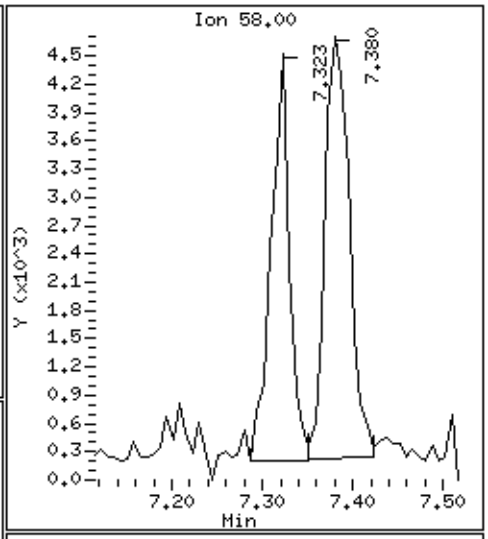
Column phase: RTX-624

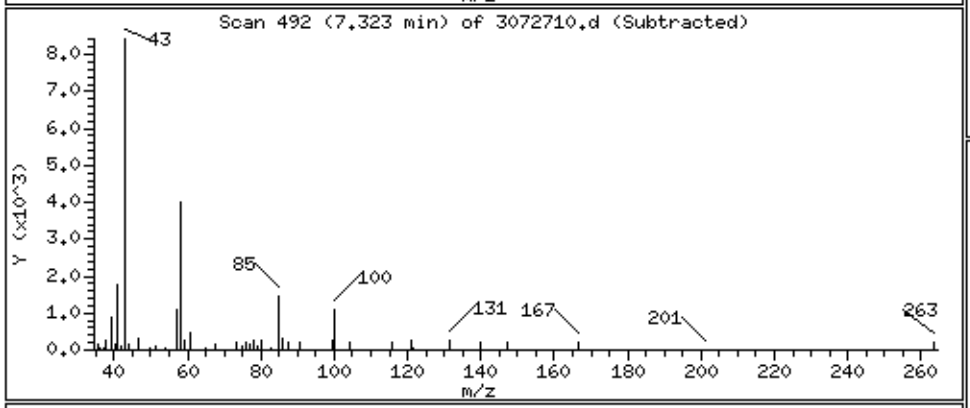
Column diameter: 0.25

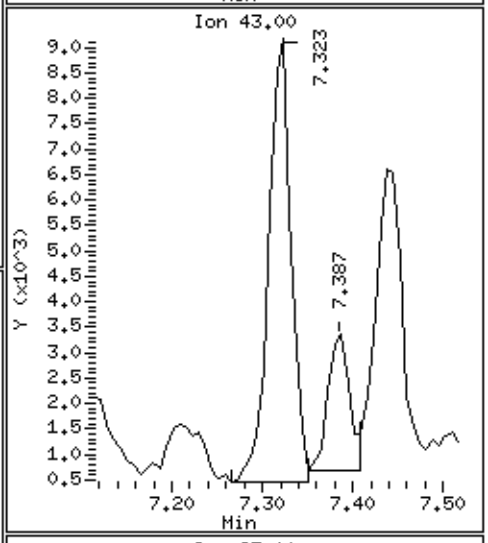
131 4-Methyl-2-pentanone

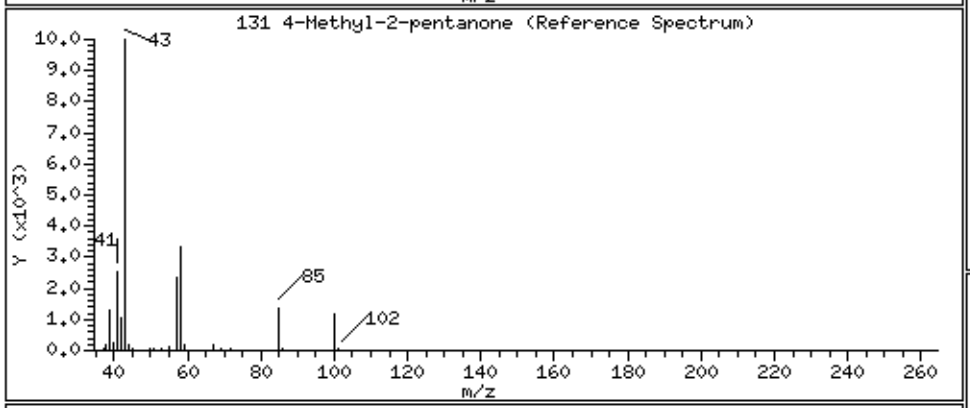
Concentration: 1.694 PPBV

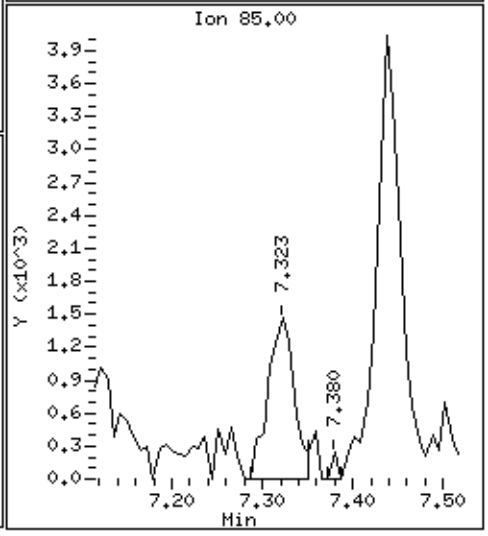


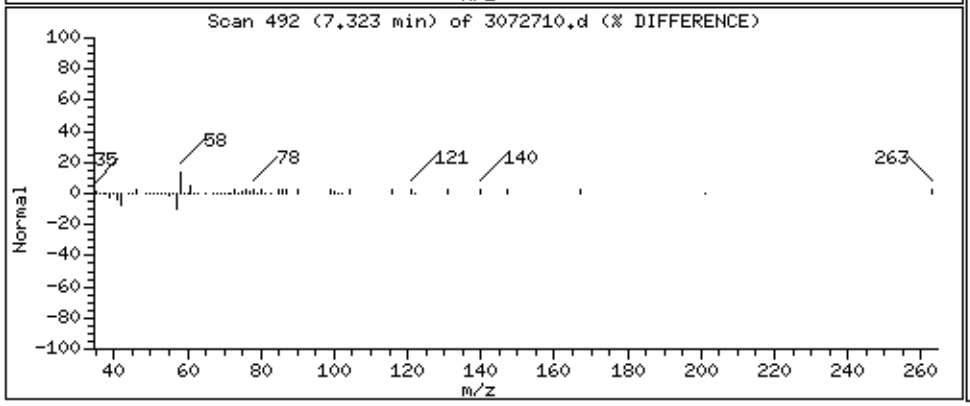












Data File: /chem/msd3.i/27JUL21.b/3072710.d

Date : 27-JUL-2021 17:01

Client ID:

Instrument: msd3.i

Sample Info: 200mL 00853

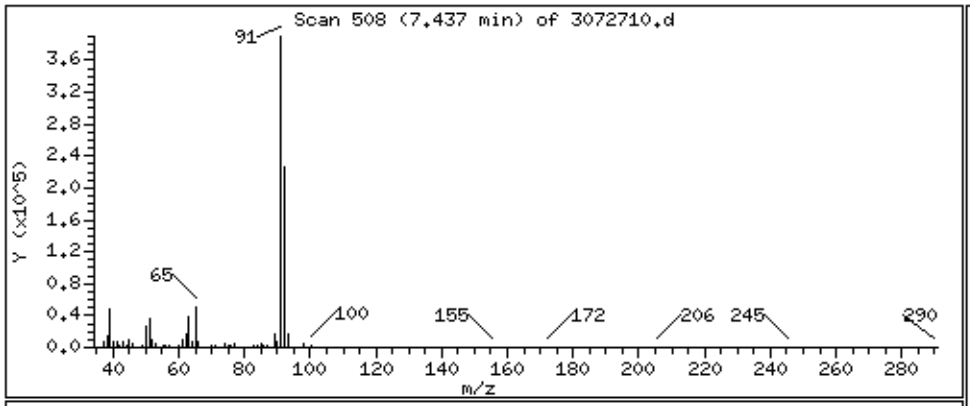
Operator: LD

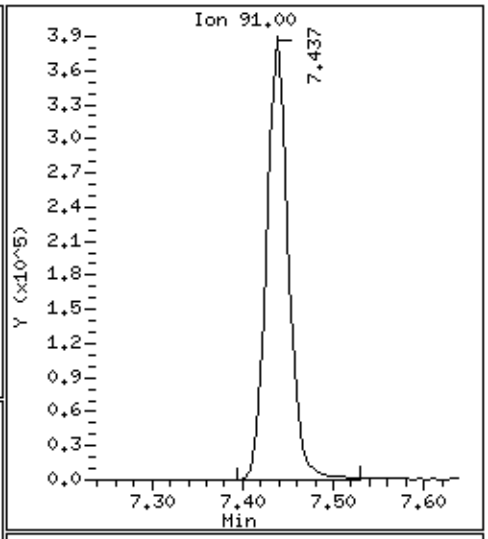
Column phase: RTX-624

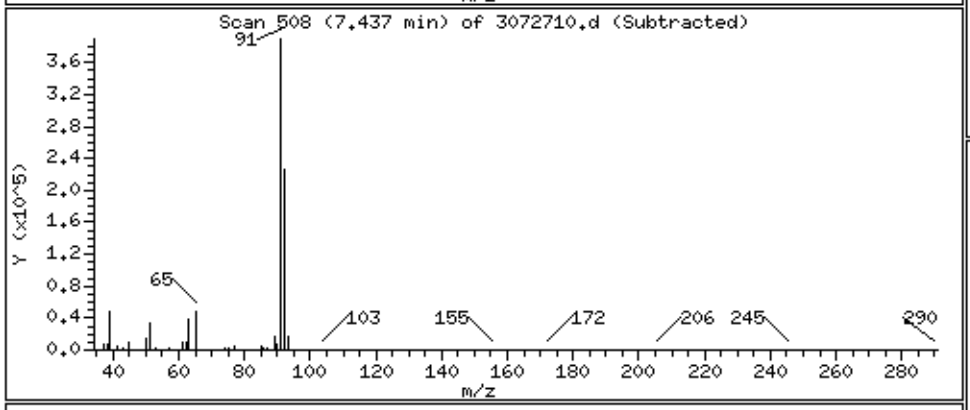
Column diameter: 0.25

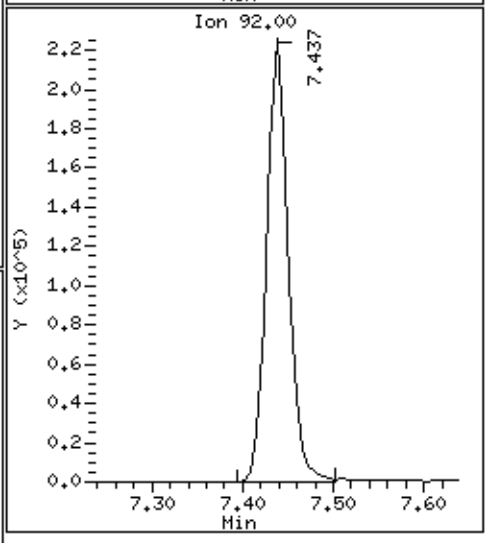
137 Toluene

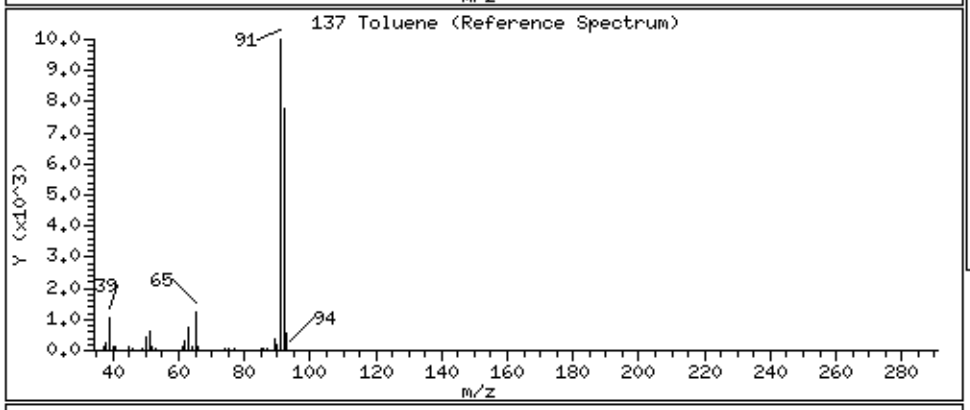
Concentration: 56.262 PPBV

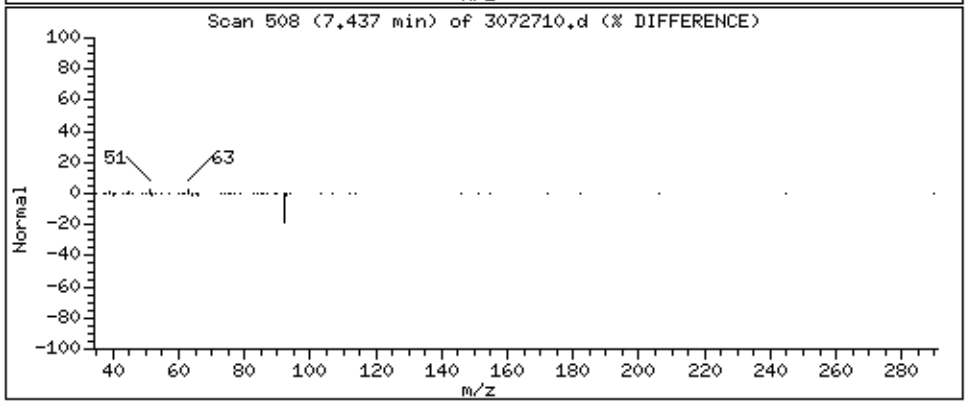












Data File: /chem/msd3.i/27JUL21.b/3072710.d

Date : 27-JUL-2021 17:01

Client ID:

Instrument: msd3.i

Sample Info: 200mL 00853

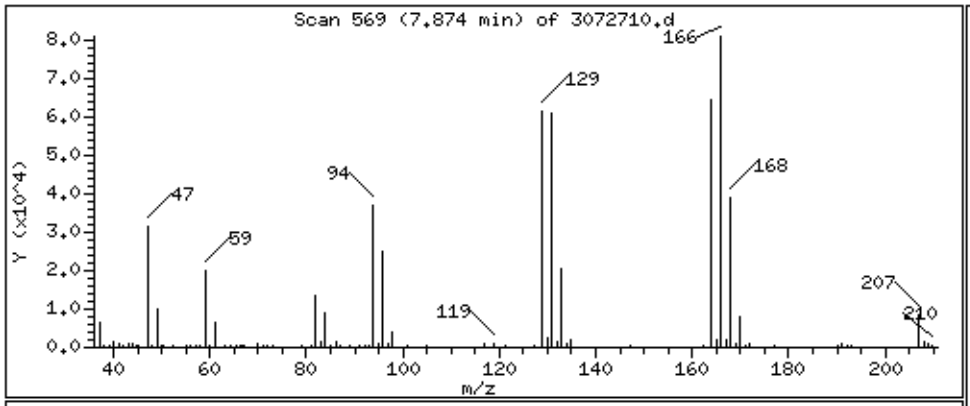
Operator: LD

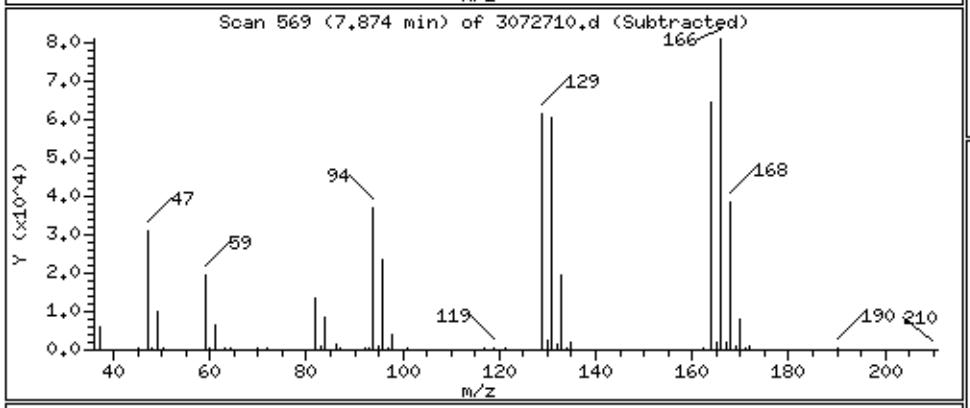
Column phase: RTX-624

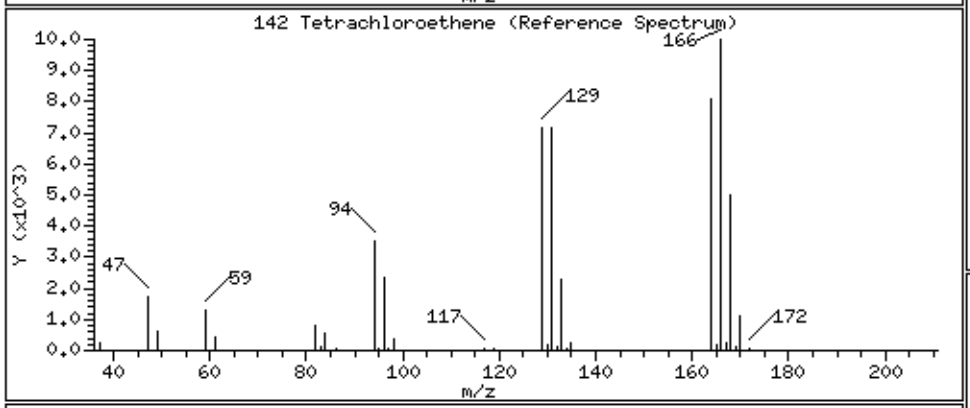
Column diameter: 0.25

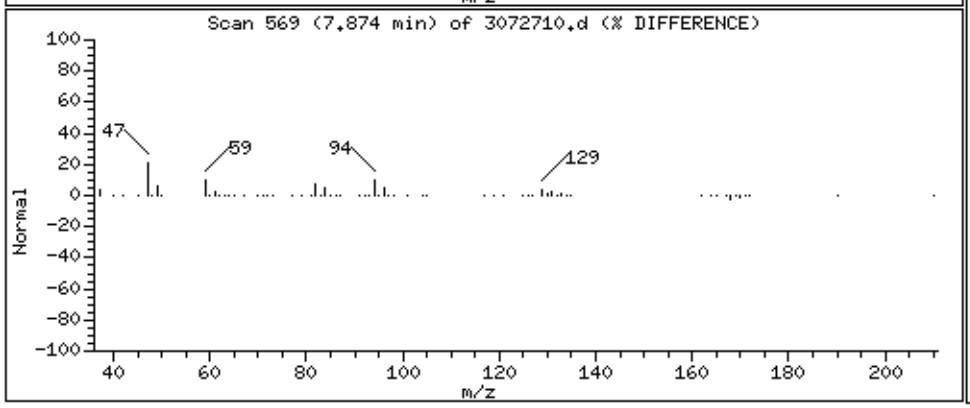
142 Tetrachloroethene

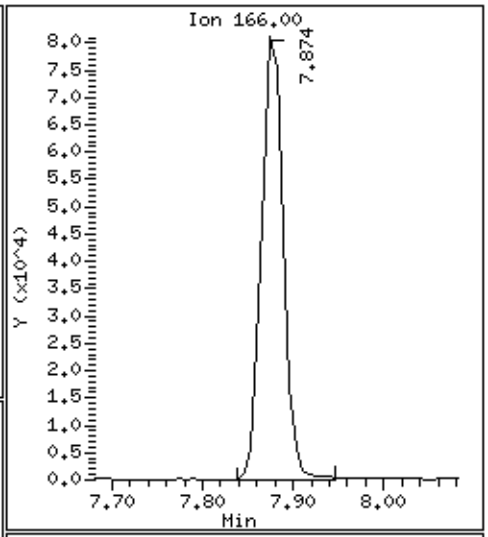
Concentration: 26.004 PPBV

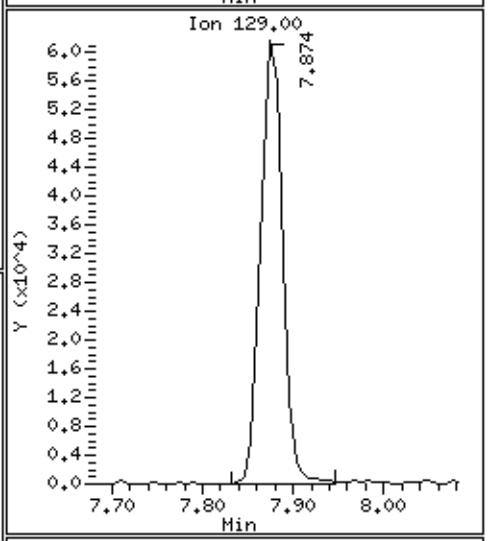


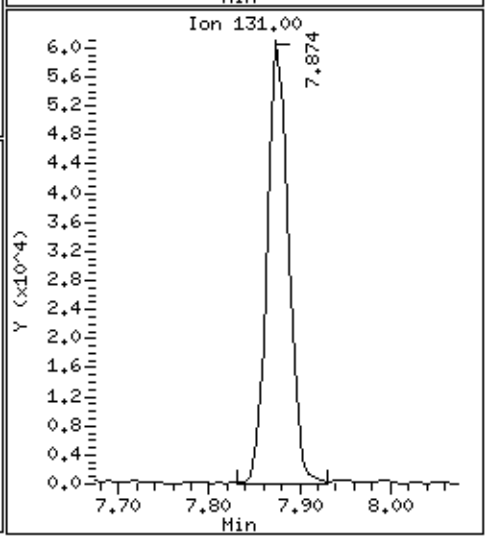












Data File: /chem/msd3.i/27JUL21.b/3072710.d

Date : 27-JUL-2021 17:01

Client ID:

Instrument: msd3.i

Sample Info: 200mL 00853

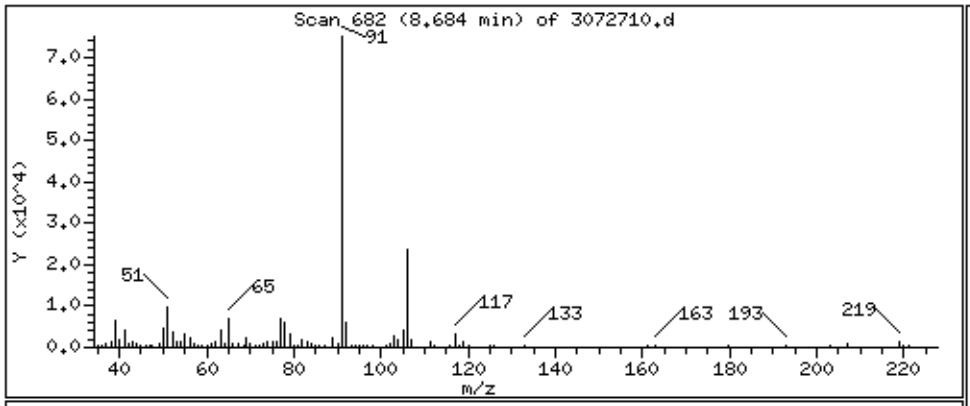
Operator: LD

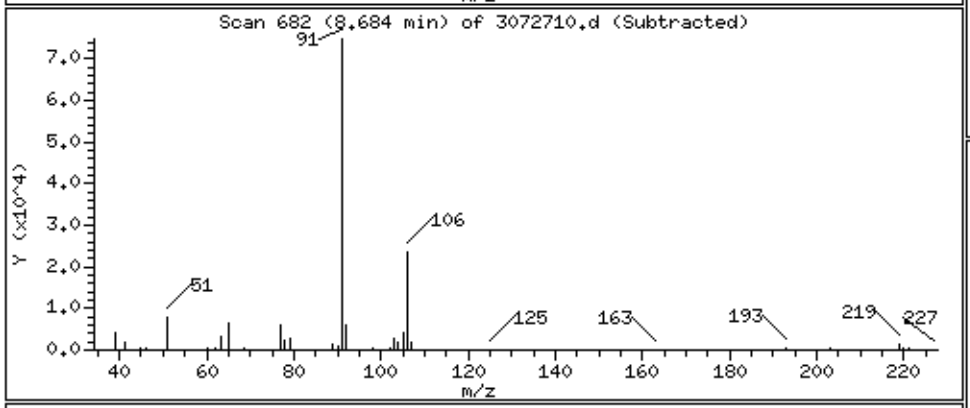
Column phase: RTX-624

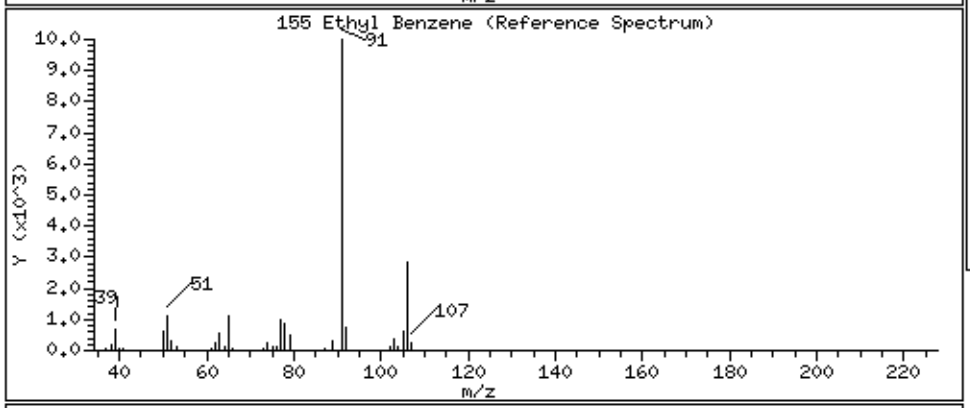
Column diameter: 0.25

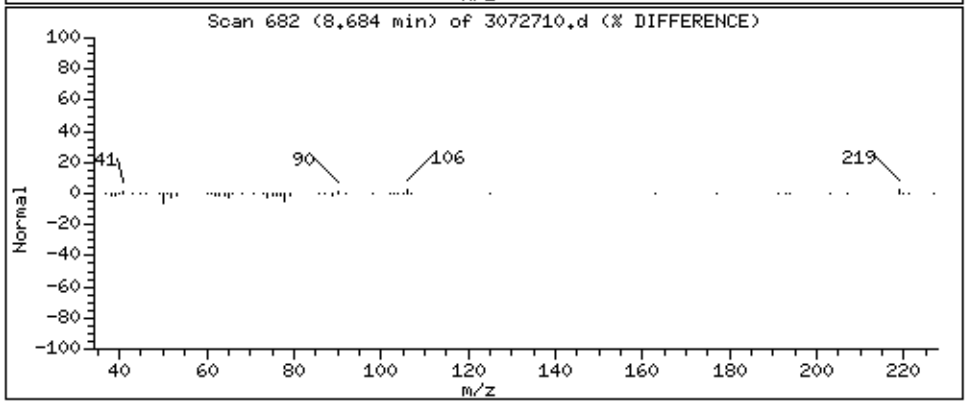
155 Ethyl Benzene

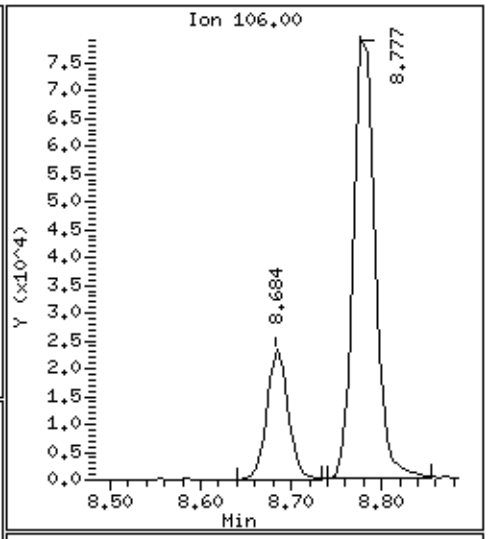
Concentration: 8.474 PPBV

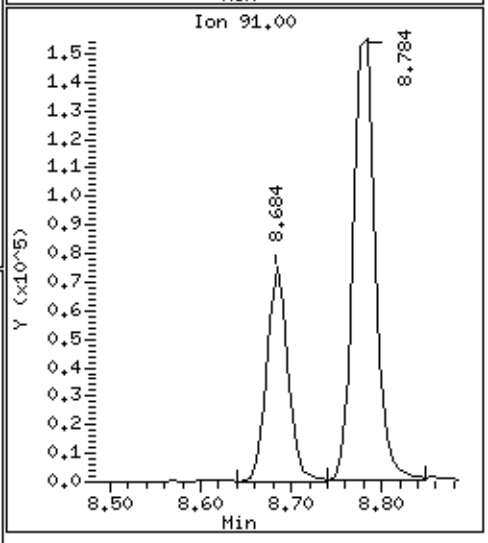












Data File: /chem/msd3.i/27JUL21.b/3072710.d

Date : 27-JUL-2021 17:01

Client ID:

Instrument: msd3.i

Sample Info: 200mL 00853

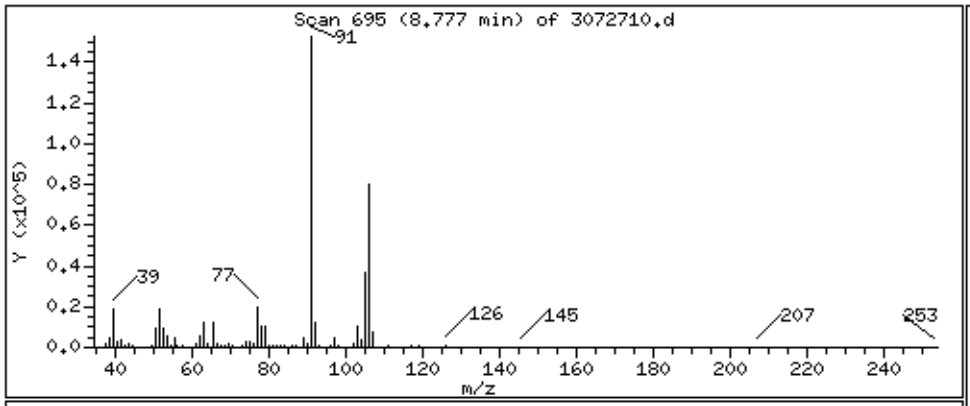
Operator: LD

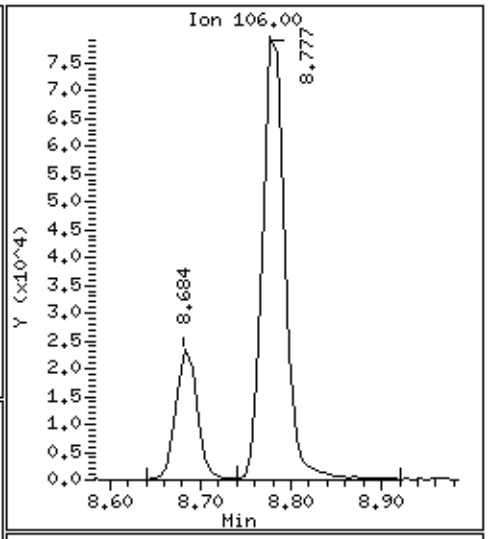
Column phase: RTX-624

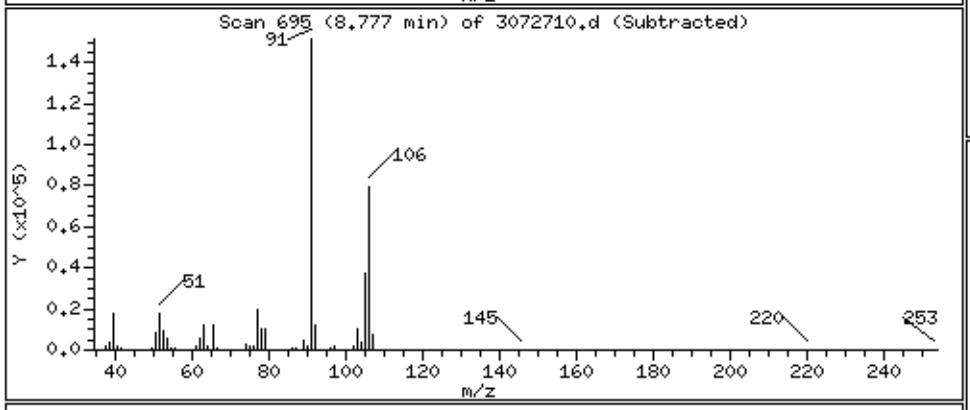
Column diameter: 0.25

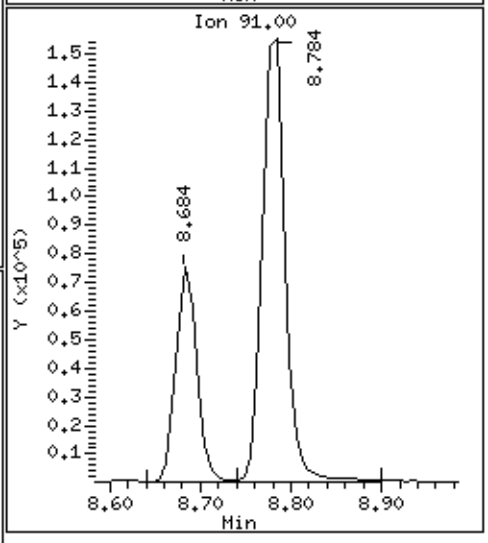
158 m,p-Xylene

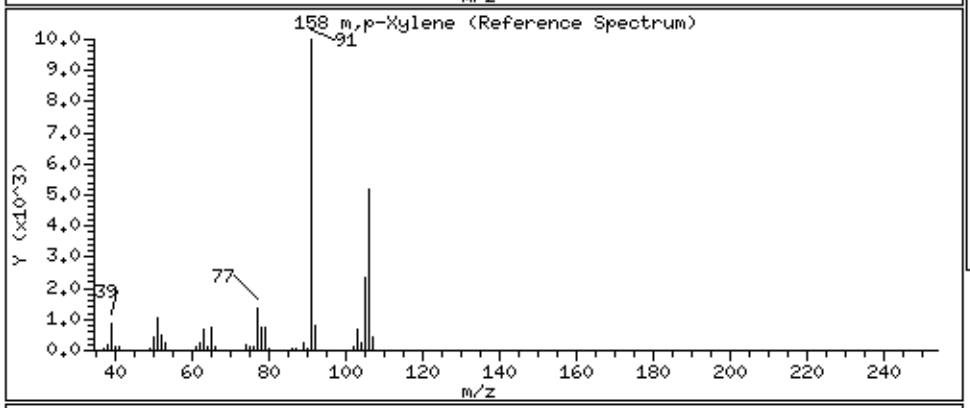
Concentration: 24.511 PPBV

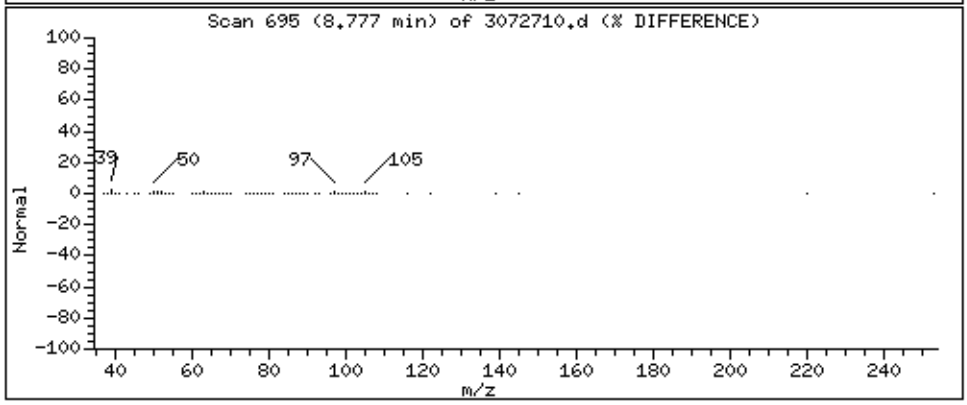












Data File: /chem/msd3.i/27JUL21.b/3072710.d

Date : 27-JUL-2021 17:01

Client ID:

Instrument: msd3.i

Sample Info: 200mL 00853

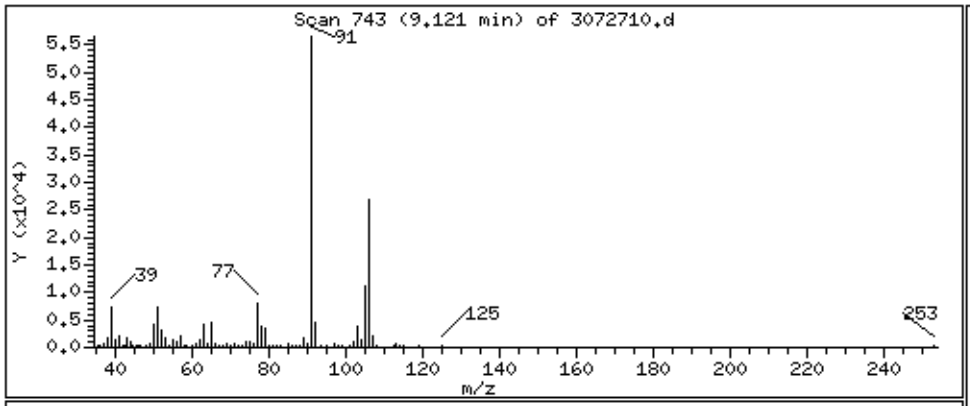
Operator: LD

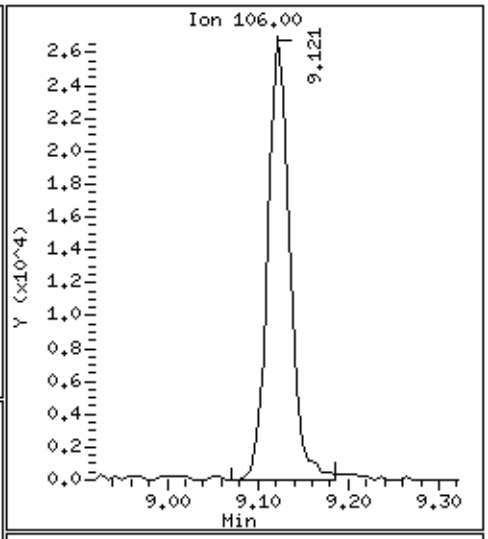
Column phase: RTX-624

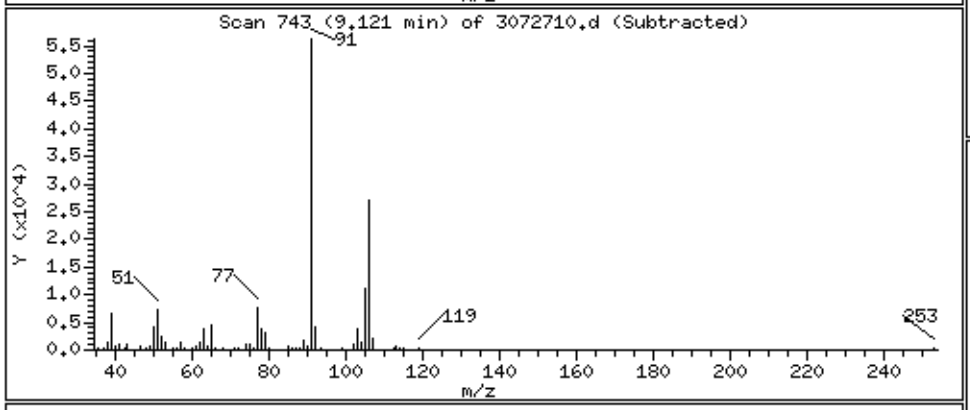
Column diameter: 0.25

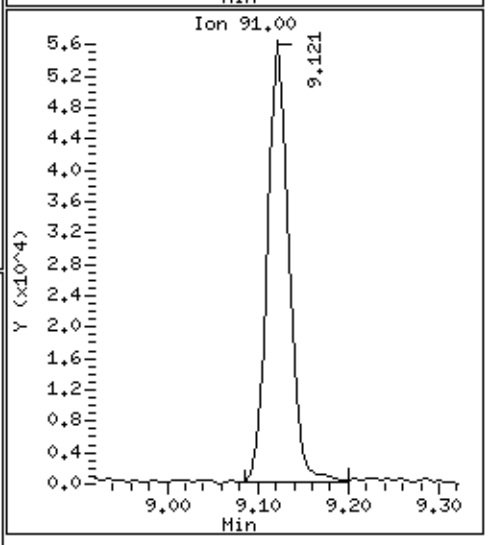
164 o-Xylene

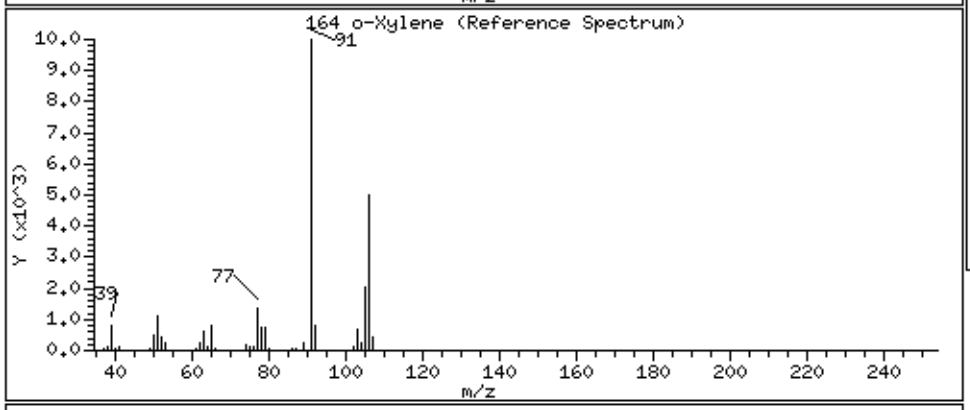
Concentration: 8.513 PPBV

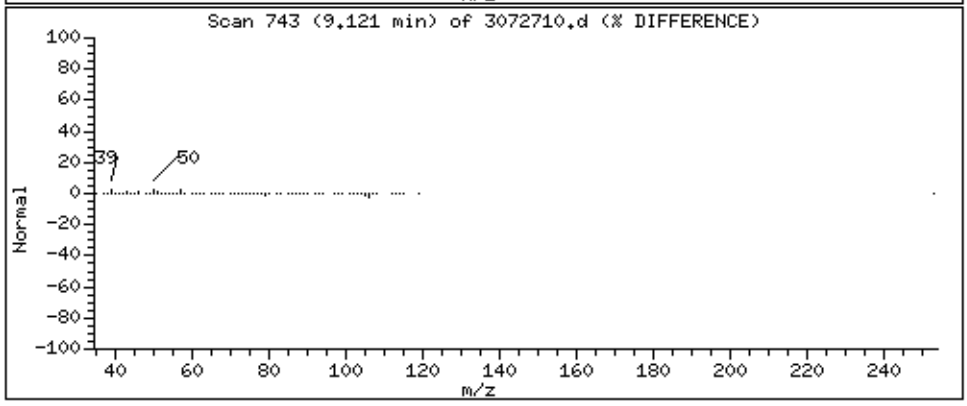












Data File: /chem/msd3.i/27JUL21.b/3072710.d

Date : 27-JUL-2021 17:01

Client ID:

Instrument: msd3.i

Sample Info: 200mL 00853

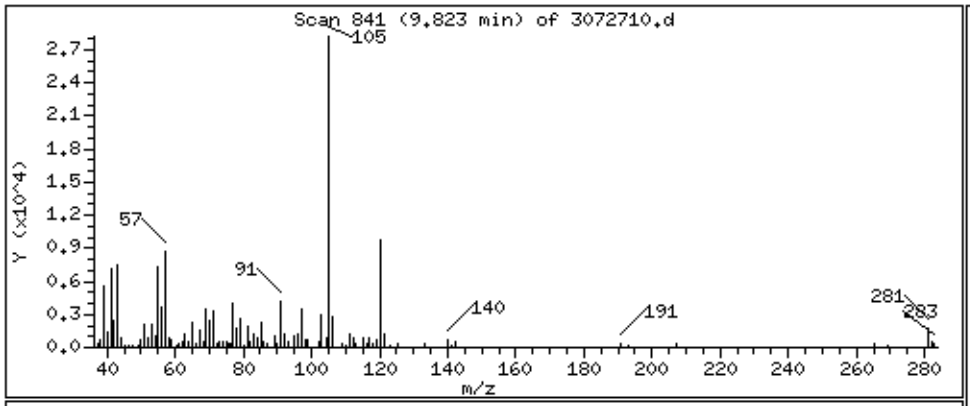
Operator: LD

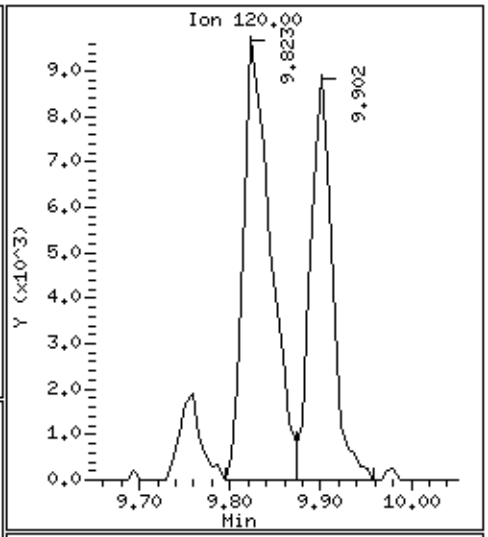
Column phase: RTX-624

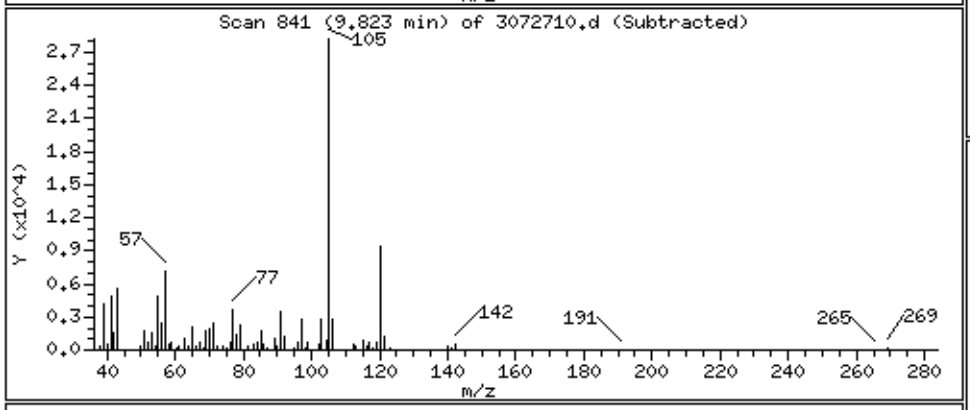
Column diameter: 0.25

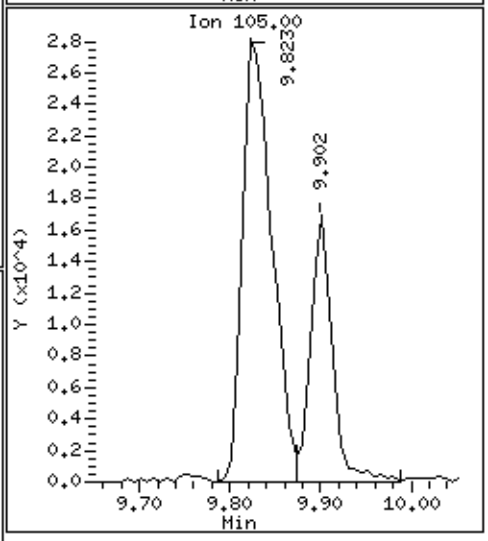
183 4-Ethyltoluene

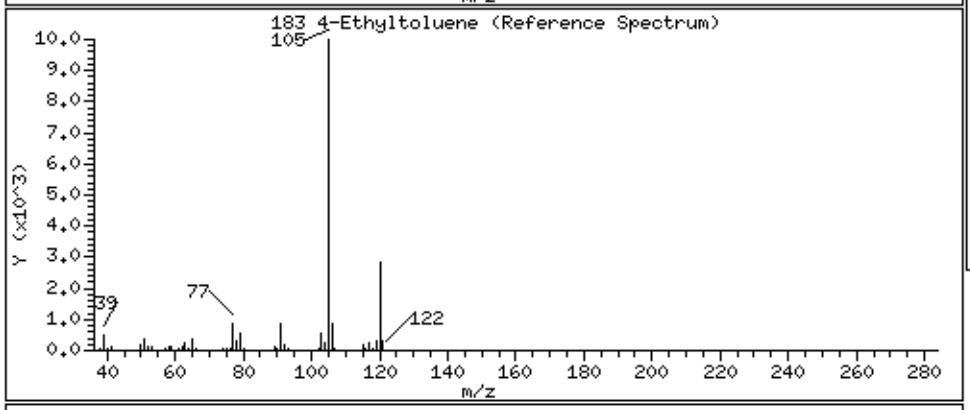
Concentration: 4.016 PPBV

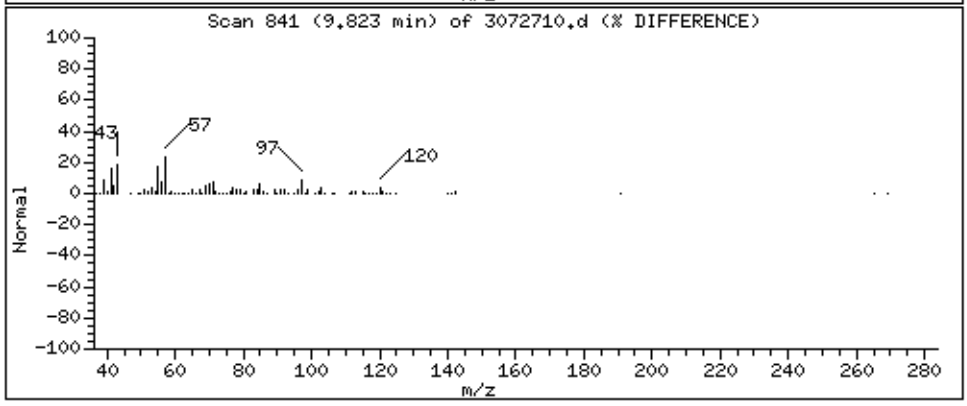












Data File: /chem/msd3.i/27JUL21.b/3072710.d

Date : 27-JUL-2021 17:01

Client ID:

Instrument: msd3.i

Sample Info: 200mL 00853

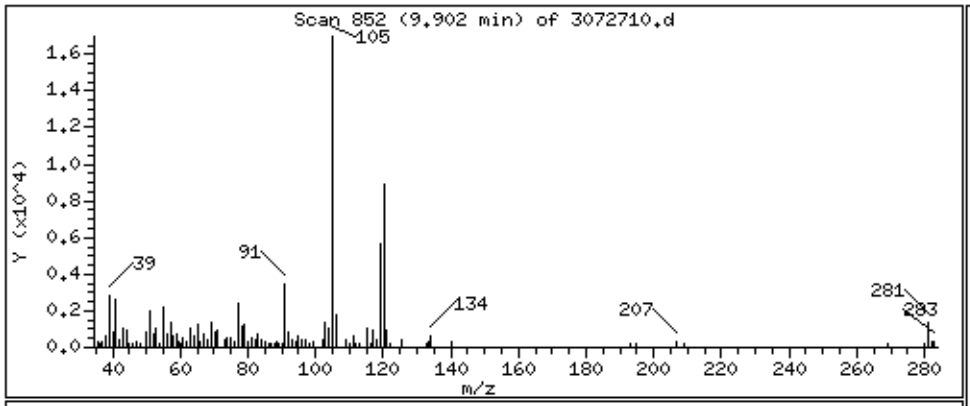
Operator: LD

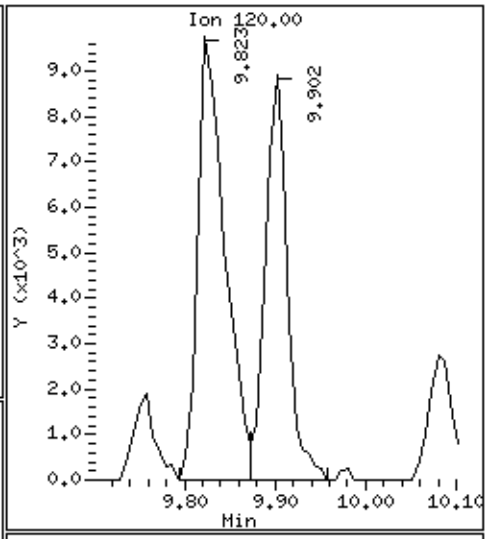
Column phase: RTX-624

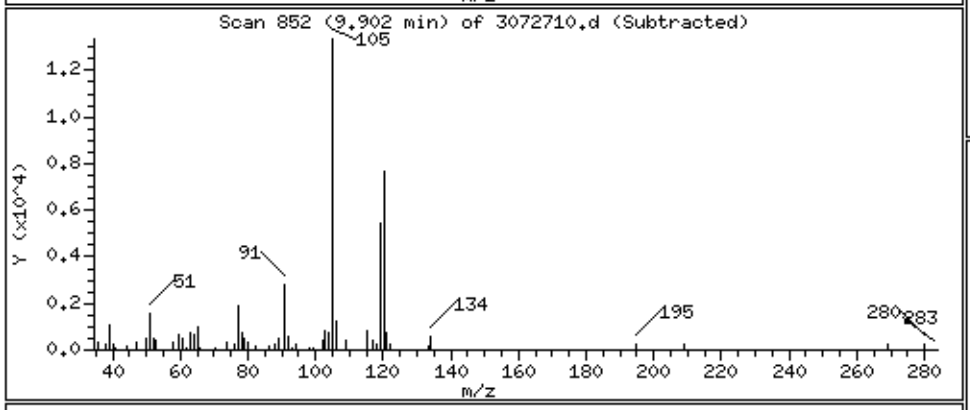
Column diameter: 0.25

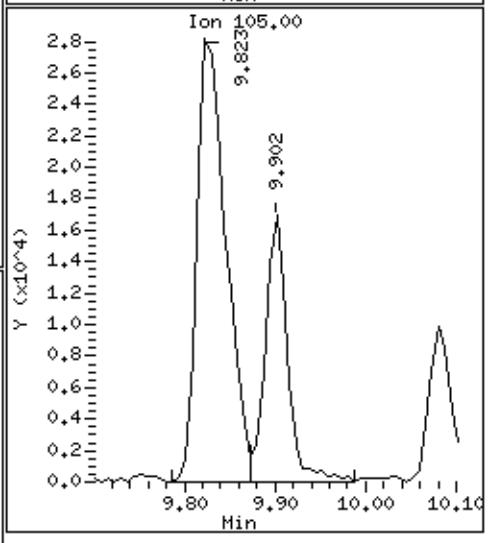
185 1,3,5-Trimethylbenzene

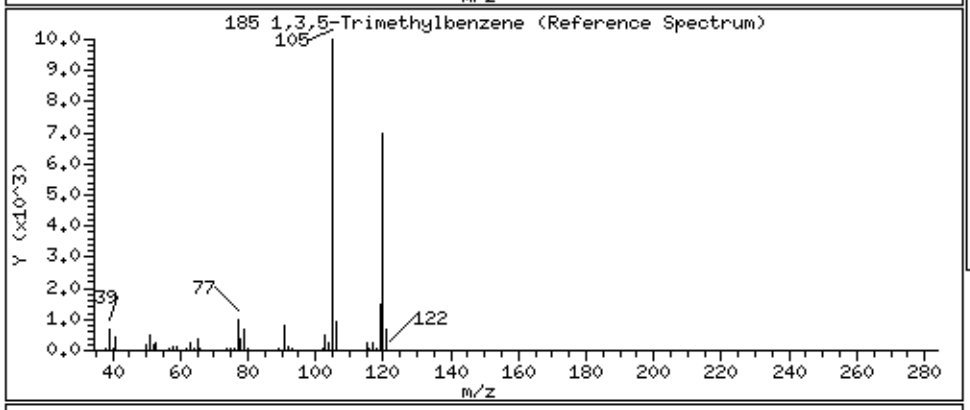
Concentration: 2.116 PPBV

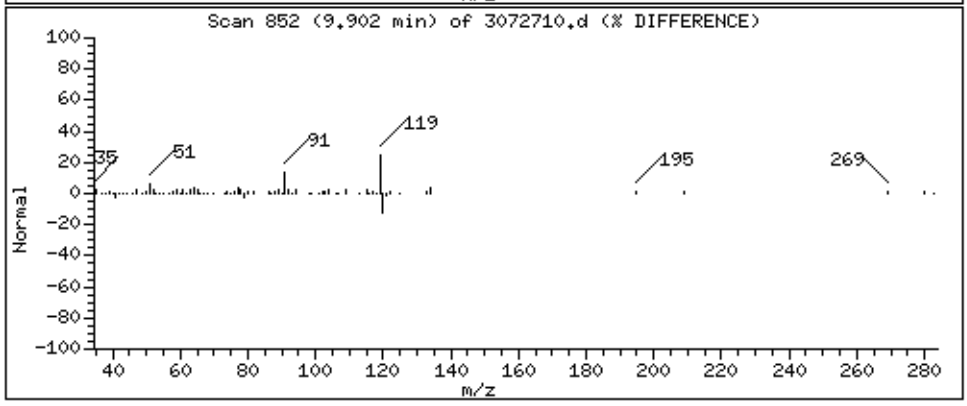












Data File: /chem/msd3.i/27JUL21.b/3072710.d

Date : 27-JUL-2021 17:01

Client ID:

Instrument: msd3.i

Sample Info: 200mL 00853

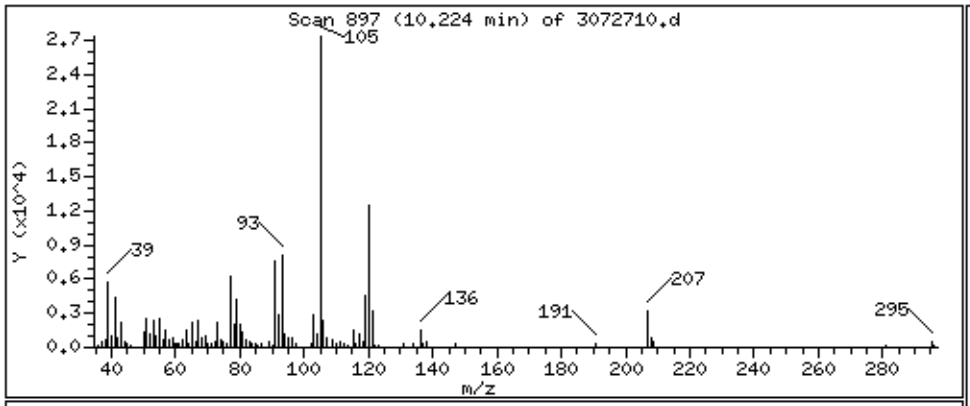
Operator: LD

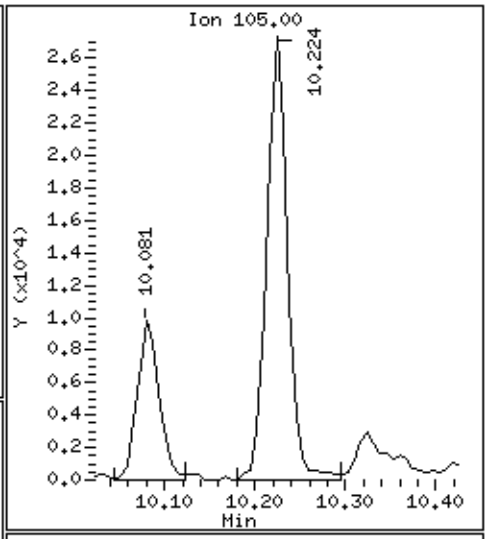
Column phase: RTX-624

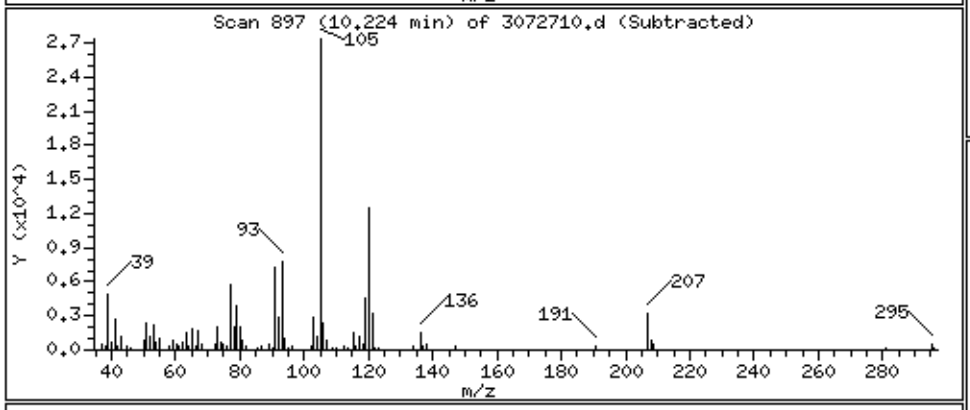
Column diameter: 0.25

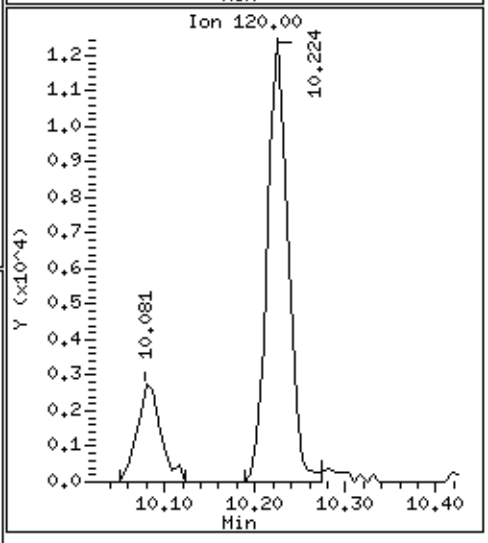
190 1,2,4-Trimethylbenzene

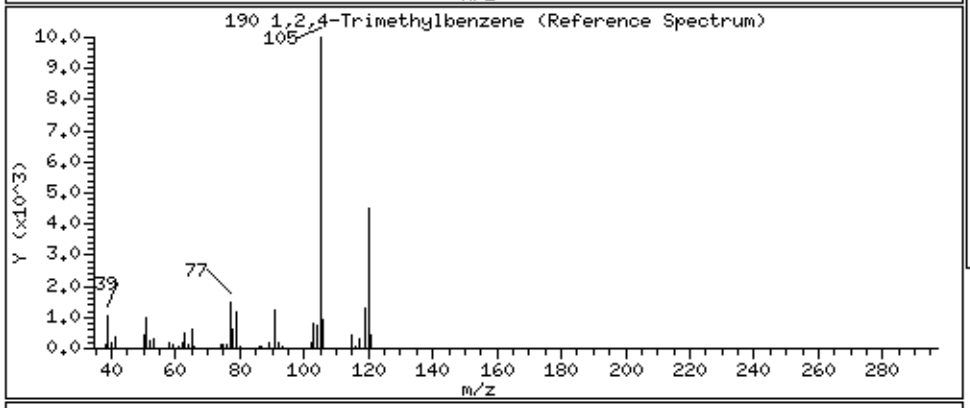
Concentration: 3.079 PPBV

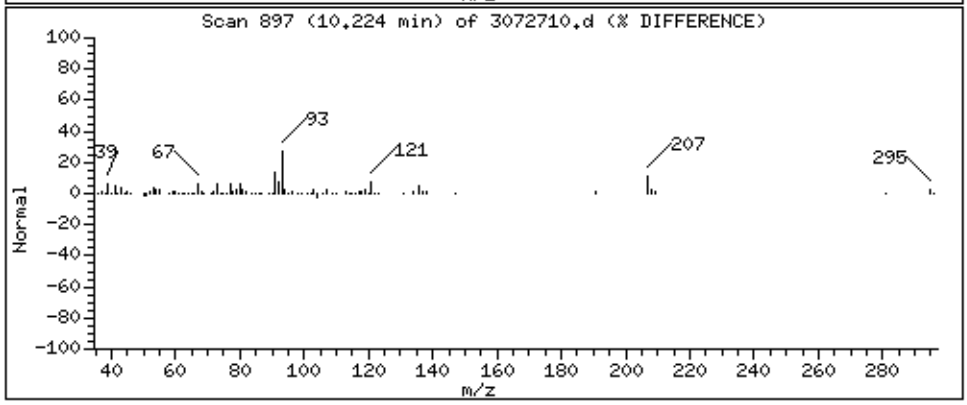












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Client Sample ID: SG-VW58B-01

Lab ID#: 2107284-22A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3072711**	**Date of Collection:**	**7/14/21 10:52:00 AM**
Dil. Factor:	**2.21**	**Date of Analysis:**	**7/27/21 05:30 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1,2-Tetrachloroethane	4.4	Not Detected	30	Not Detected
1,1,1-Trichloroethane	1.1	Not Detected	6.0	Not Detected
1,1,2,2-Tetrachloroethane	1.1	Not Detected	7.6	Not Detected
1,1,2-Trichloroethane	1.1	Not Detected	6.0	Not Detected
1,1-Dichloroethane	1.1	Not Detected	4.5	Not Detected
1,1-Dichloroethene	1.1	Not Detected	4.4	Not Detected
1,1-Difluoroethane	4.4	3000 E	12	8000 E
1,2,3-Trichloropropane	4.4	Not Detected	27	Not Detected
1,2,4-Trichlorobenzene	4.4	Not Detected	33	Not Detected
1,2,4-Trimethylbenzene	1.1	Not Detected	5.4	Not Detected
1,2-Dibromo-3-chloropropane	4.4	Not Detected	43	Not Detected
1,2-Dibromoethane (EDB)	1.1	Not Detected	8.5	Not Detected
1,2-Dichlorobenzene	1.1	Not Detected	6.6	Not Detected
1,2-Dichloroethane	1.1	Not Detected	4.5	Not Detected
1,2-Dichloropropane	1.1	Not Detected	5.1	Not Detected
1,3,5-Trimethylbenzene	1.1	Not Detected	5.4	Not Detected
1,3-Butadiene	1.1	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	1.1	Not Detected	6.6	Not Detected
1,4-Dichlorobenzene	1.1	Not Detected	6.6	Not Detected
1,4-Dioxane	4.4	Not Detected	16	Not Detected
2,2,4-Trimethylpentane	1.1	Not Detected	5.2	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.4	Not Detected	13	Not Detected
2-Hexanone	4.4	Not Detected	18	Not Detected
2-Propanol	4.4	15	11	36
3-Chloropropene	4.4	Not Detected	14	Not Detected
4-Ethyltoluene	1.1	Not Detected	5.4	Not Detected
4-Methyl-2-pentanone	1.1	Not Detected	4.5	Not Detected
Acetone	11	Not Detected	26	Not Detected
Acrolein	4.4	Not Detected	10	Not Detected
Acrylonitrile	4.4	Not Detected	9.6	Not Detected
alpha-Chlorotoluene	1.1	Not Detected	5.7	Not Detected
Benzene	1.1	Not Detected	3.5	Not Detected
Bromodichloromethane	1.1	Not Detected	7.4	Not Detected
Bromoform	1.1	Not Detected	11	Not Detected
Bromomethane	11	Not Detected	43	Not Detected
Carbon Disulfide	4.4	Not Detected	14	Not Detected
Carbon Tetrachloride	1.1	Not Detected	7.0	Not Detected
Chlorobenzene	1.1	Not Detected	5.1	Not Detected
Chloroethane	4.4	Not Detected	12	Not Detected
Chloroform	1.1	Not Detected	5.4	Not Detected
Chloromethane	11	Not Detected	23	Not Detected
cis-1,2-Dichloroethene	1.1	Not Detected	4.4	Not Detected

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Client Sample ID: SG-VW58B-01

Lab ID#: 2107284-22A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3072711**	**Date of Collection:**	**7/14/21 10:52:00 AM**
Dil. Factor:	**2.21**	**Date of Analysis:**	**7/27/21 05:30 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,3-Dichloropropene	1.1	Not Detected	5.0	Not Detected
Cumene	1.1	Not Detected	5.4	Not Detected
Cyclohexane	1.1	Not Detected	3.8	Not Detected
Dibromochloromethane	1.1	Not Detected	9.4	Not Detected
Dibromomethane	4.4	Not Detected	31	Not Detected
Ethanol	11	Not Detected	21	Not Detected
Ethyl Acetate	4.4	Not Detected	16	Not Detected
Ethyl Benzene	1.1	Not Detected	4.8	Not Detected
Ethyl-tert-butyl ether	4.4	Not Detected	18	Not Detected
Freon 11	1.1	Not Detected	6.2	Not Detected
Freon 12	1.1	Not Detected	5.5	Not Detected
Freon 113	1.1	Not Detected	8.5	Not Detected
Freon 114	1.1	Not Detected	7.7	Not Detected
Freon 134a	4.4	Not Detected	18	Not Detected
Heptane	1.1	Not Detected	4.5	Not Detected
Hexachlorobutadiene	4.4	Not Detected	47	Not Detected
Hexachloroethane	4.4	Not Detected	43	Not Detected
Hexane	1.1	24	3.9	86
Iodomethane	11	Not Detected	64	Not Detected
Isopropyl ether	4.4	Not Detected	18	Not Detected
m,p-Xylene	1.1	Not Detected	4.8	Not Detected
Methyl tert-butyl ether	4.4	Not Detected	16	Not Detected
Methylene Chloride	11	Not Detected	38	Not Detected
Naphthalene	2.2	Not Detected	12	Not Detected
o-Xylene	1.1	Not Detected	4.8	Not Detected
Propylbenzene	1.1	Not Detected	5.4	Not Detected
Propylene	4.4	Not Detected	7.6	Not Detected
Styrene	1.1	Not Detected	4.7	Not Detected
tert-Amyl methyl ether	4.4	Not Detected	18	Not Detected
tert-Butyl alcohol	4.4	Not Detected	13	Not Detected
Tetrachloroethene	1.1	51	7.5	350
Tetrahydrofuran	1.1	Not Detected	3.2	Not Detected
Toluene	1.1	1.1	4.2	4.3
TPH ref. to Gasoline (MW=100)	110	Not Detected	450	Not Detected
trans-1,2-Dichloroethene	1.1	Not Detected	4.4	Not Detected
trans-1,3-Dichloropropene	1.1	Not Detected	5.0	Not Detected
Trichloroethene	1.1	Not Detected	5.9	Not Detected
Vinyl Acetate	4.4	Not Detected	16	Not Detected
Vinyl Bromide	4.4	Not Detected	19	Not Detected
Vinyl Chloride	1.1	Not Detected	2.8	Not Detected

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Client Sample ID: SG-VW58B-01

Lab ID#: 2107284-22A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3072711**	**Date of Collection: 7/14/21 10:52:00 AM**
Dil. Factor:	**2.21**	**Date of Analysis: 7/27/21 05:30 PM**

E = Exceeds instrument calibration range.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	95	70-130
1,2-Dichloroethane-d4	99	70-130
4-Bromofluorobenzene	98	70-130

US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msd3.i/27JUL21.b/3072711.d
Lab Smp Id: 2107284-22A
Inj Date : 27-JUL-2021 17:30
Operator : LD Inst ID: msd3.i
Smp Info : 200mL O0775
Misc Info : 7.3 Hg->9.9 psi
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msd3.i/27JUL21.b/321q0622a.m
Meth Date : 27-Jul-2021 15:31 lk8g Quant Type: ISTD
Cal Date : 23-JUN-2021 00:09 Cal File: 3062223.d
Als bottle: 2
Dil Factor: 2.21000
Integrator: HP RTE Compound Sublist: AEC25677.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE		(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 90 Bromochloromethane						CAS #: 74-97-5		
5.284	5.284 (1.000)	130	258743	25.0000			80.00- 120.00	100.00
5.284	5.284 (1.000)	128	200833				48.46- 108.46	77.62
5.284	5.270 (1.000)	49	372765				120.39- 180.39	144.07
* 108 1,4-Difluorobenzene						CAS #: 540-36-3		
6.180	6.180 (1.000)	114	876809	25.0000			80.00- 120.00	100.00
6.166	6.180 (1.000)	88	130098				0.00- 45.52	14.84
* 153 Chlorobenzene-d5						CAS #: 3114-55-4		
8.619	8.612 (1.000)	117	780715	25.0000			80.00- 120.00	100.00
8.612	8.612 (1.000)	82	404775				25.46- 85.46	51.85
$ 104 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
5.816	5.816 (1.101)	65	352727	24.7721	24.772		80.00- 120.00	100.00
5.816	5.816 (1.101)	67	171137				21.66- 81.66	48.52
$ 134 Toluene-d8						CAS #: 2037-26-5		
7.387	7.387 (1.195)	98	857098	23.7329	23.733		80.00- 120.00	100.00
7.387	7.387 (1.195)	70	94371				0.00- 41.47	11.01

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 134 Toluene-d8 (continued)							
7.387	7.387 (1.195)	100	559558			36.47- 96.47	65.29
$ 170 4-Bromofluorobenzene					CAS #: 460-00-4		
9.601	9.601 (1.114)	174	504443	24.4279	24.428	80.00- 120.00	100.00
9.601	9.601 (1.114)	95	573801			93.06- 153.06	113.75
9.601	9.601 (1.114)	176	468822			62.87- 122.87	92.94
7 1,1-Difluoroethane					CAS #: 75-37-6		
1.451	1.437 (0.274)	65	5492922	1348.29	2979.7	80.00- 120.00	100.00(A)
1.451	1.479 (0.274)	51	12487316			321.86- 381.86	227.33
1.451	1.451 (0.274)	47	2904998			45.34- 105.34	52.89
52 2-Propanol					CAS #: 67-63-0		
3.423	3.409 (0.648)	45	103641	6.64233	14.680	80.00- 120.00	100.00
3.423	3.395 (0.648)	43	22162			0.00- 48.61	21.38
67 Hexane					CAS #: 110-54-3		
4.179	4.179 (0.791)	57	159124	11.1055	24.543	80.00- 120.00	100.00
4.179	4.179 (0.791)	43	99364			32.99- 92.99	62.44
4.179	4.179 (0.791)	86	22702			0.00- 42.56	14.27
137 Toluene					CAS #: 108-88-3		
7.437	7.437 (1.203)	91	13939	0.51919	1.147	80.00- 120.00	100.00
7.437	7.437 (1.203)	92	8747			28.30- 88.30	62.76
142 Tetrachloroethene					CAS #: 127-18-4		
7.881	7.881 (0.914)	166	283436	23.1740	51.214	80.00- 120.00	100.00
7.881	7.881 (0.914)	129	220349			48.71- 108.71	77.74
7.881	7.874 (0.914)	131	211225			46.55- 106.55	74.52

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd3.i
Lab File ID: 3072711.d
Lab Smp Id: 2107284-22A
Analysis Type: VOA
Quant Type: ISTD
Operator: LD
Method File: /chem/msd3.i/27JUL21.b/321q0622a.m
Misc Info: 7.3 Hg->9.9 psi

Calibration Date: 27-JUL-2021
Calibration Time: 11:36
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	238986	143392	334580	258743	8.27
108 1,4-Difluorobenze	785289	471173	1099405	876809	11.65
153 Chlorobenzene-d5	683596	410158	957034	780715	14.21

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.28	4.95	5.61	5.28	-0.00
108 1,4-Difluorobenze	6.18	5.85	6.51	6.18	-0.00
153 Chlorobenzene-d5	8.61	8.28	8.94	8.62	0.08

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 28-Jul-2021 15:41

US32TAR1

RECOVERY REPORT

Client Name: Client SDG: 27JUL21
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 2107284-22A
Level: LOW Operator: LD
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT20_new.spk Quant Type: ISTD
Sublist File: AEC25677.sub
Method File: /chem/msd3.i/27JUL21.b/321q0622a.m
Misc Info: 7.3 Hg->9.9 psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 104 1,2-Dichloroethan	25.000	24.772	99.09	70-130
$ 134 Toluene-d8	25.000	23.733	94.93	70-130
$ 170 4-Bromofluorobenz	25.000	24.428	97.71	70-130

Data File: /chem/msd3.i/27JUL21.b/3072711.d

Date : 27-JUL-2021 17:30

Client ID:

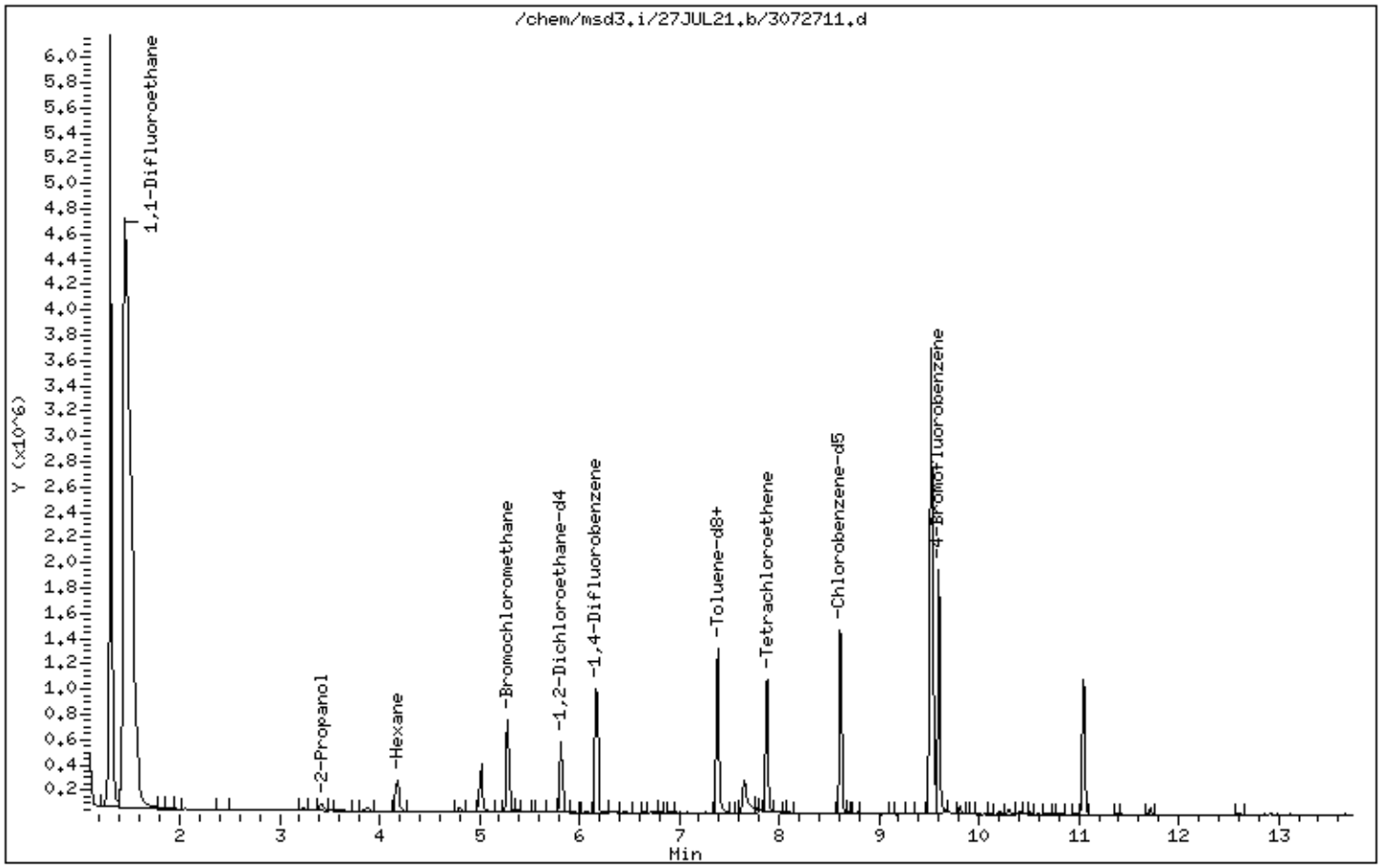
Instrument: msd3.i

Sample Info: 200mL 00775

Operator: LD

Column phase: RTX-624

Column diameter: 0.25



Data File: /chem/msd3.i/27JUL21.b/3072711.d

Date : 27-JUL-2021 17:30

Client ID:

Instrument: msd3.i

Sample Info: 200mL 00775

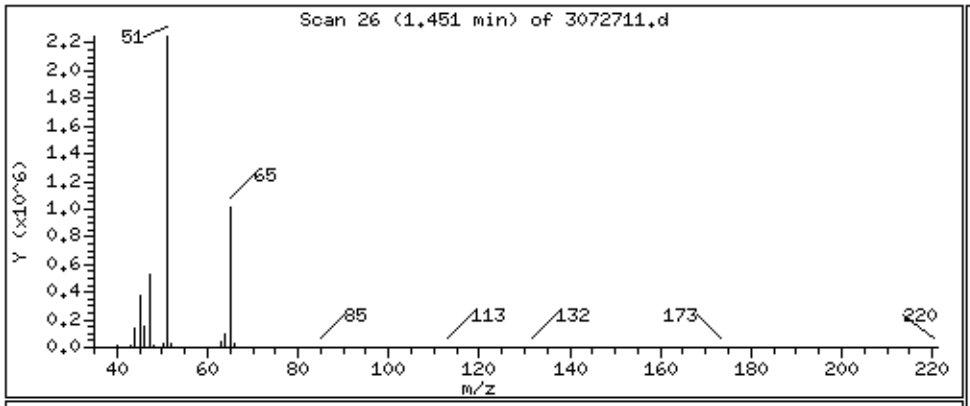
Operator: LD

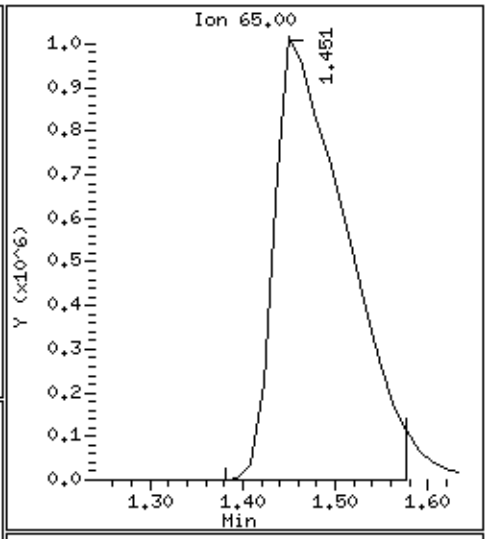
Column phase: RTX-624

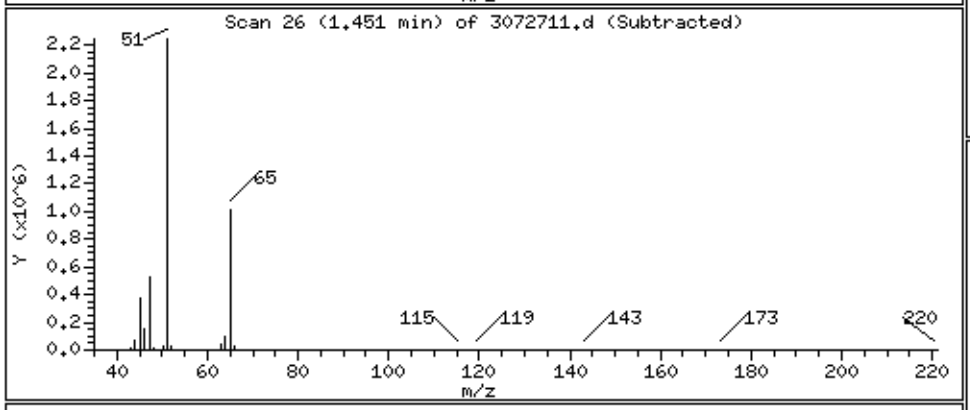
Column diameter: 0.25

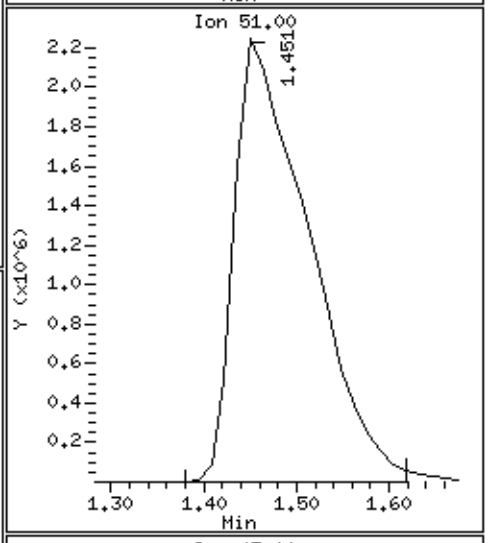
7 1,1-Difluoroethane

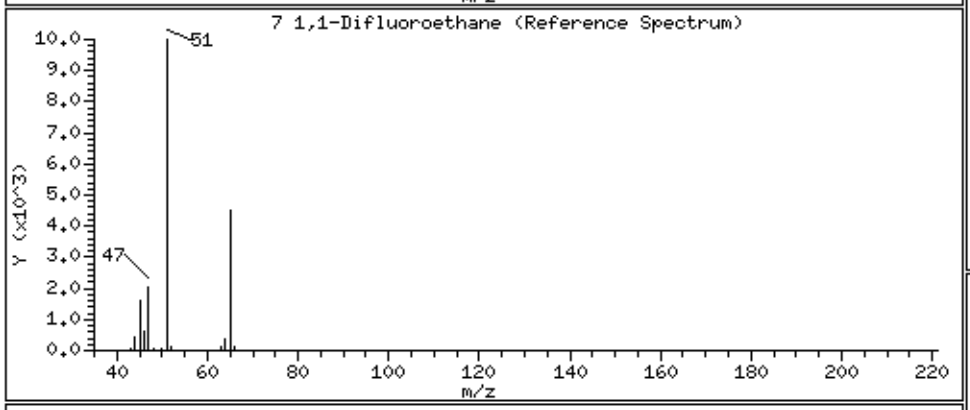
Concentration: 2979.7 PPBV

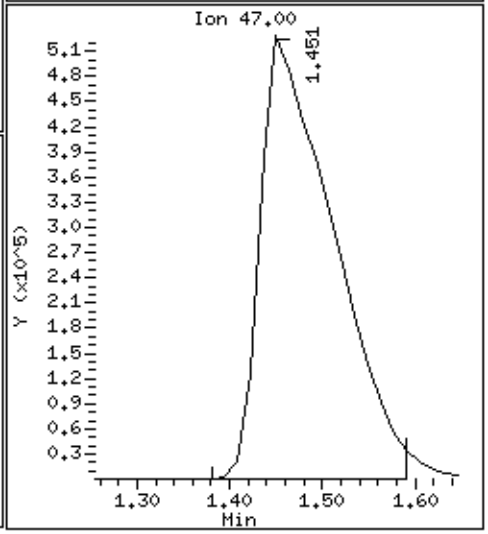


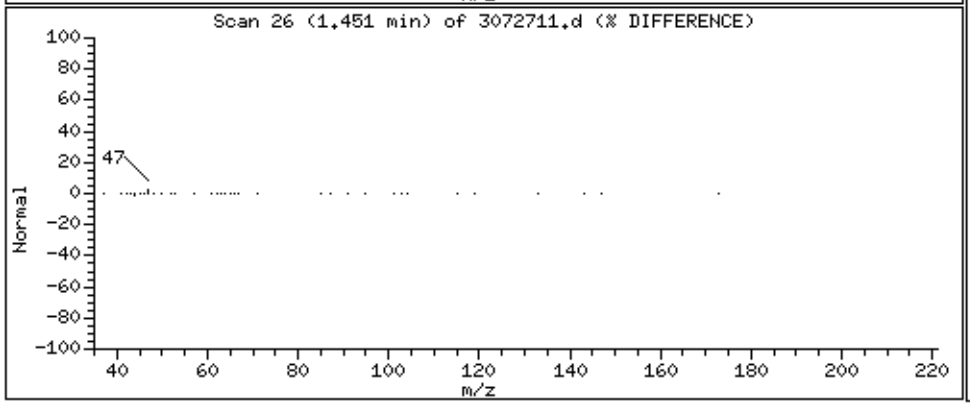












Data File: /chem/msd3.i/27JUL21.b/3072711.d

Date : 27-JUL-2021 17:30

Client ID:

Instrument: msd3.i

Sample Info: 200mL 00775

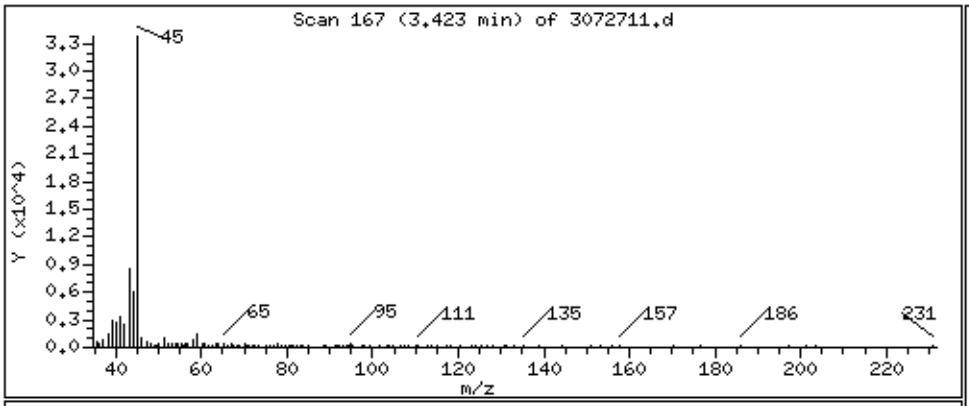
Operator: LD

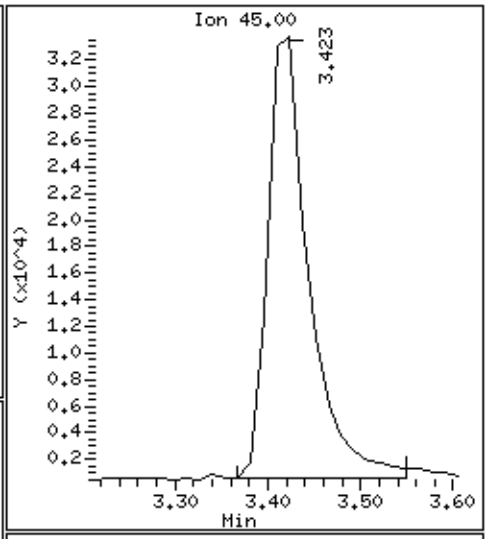
Column phase: RTX-624

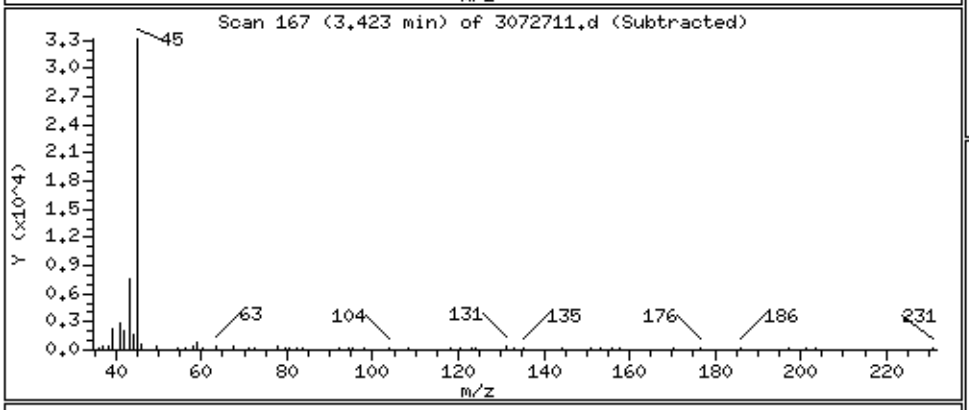
Column diameter: 0.25

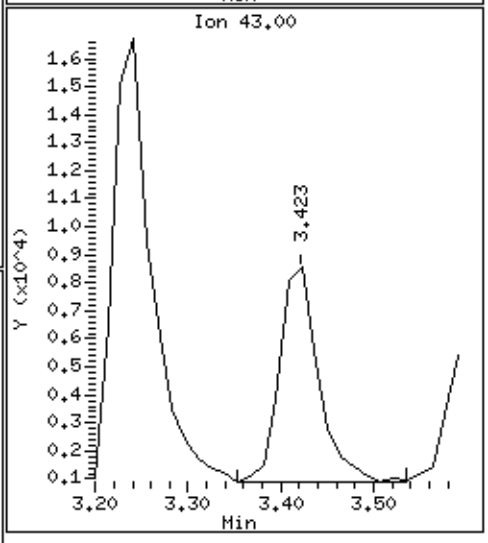
52 2-Propanol

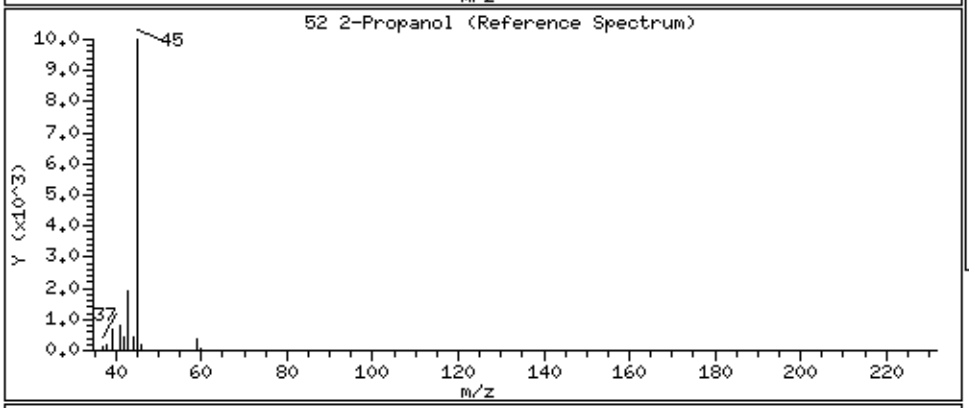
Concentration: 14.680 PPBV

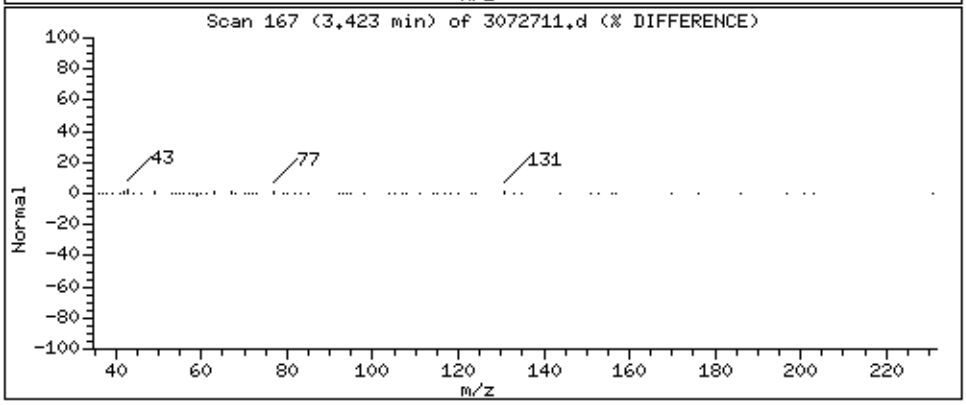












Data File: /chem/msd3.i/27JUL21.b/3072711.d

Date : 27-JUL-2021 17:30

Client ID:

Instrument: msd3.i

Sample Info: 200mL 00775

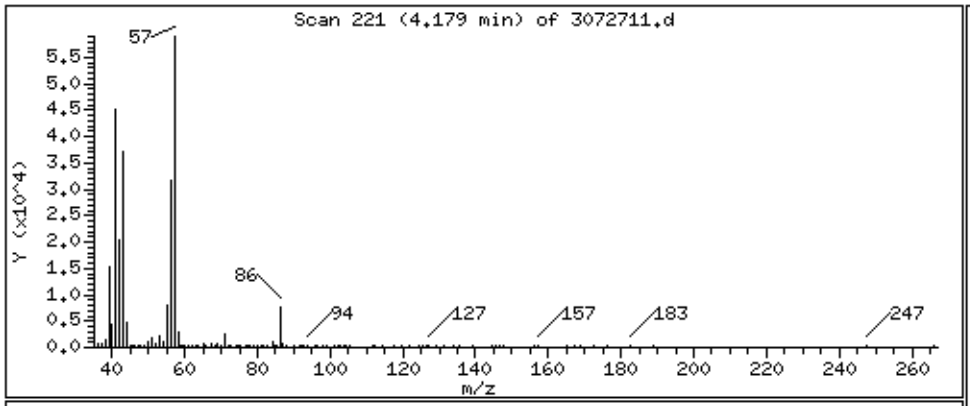
Operator: LD

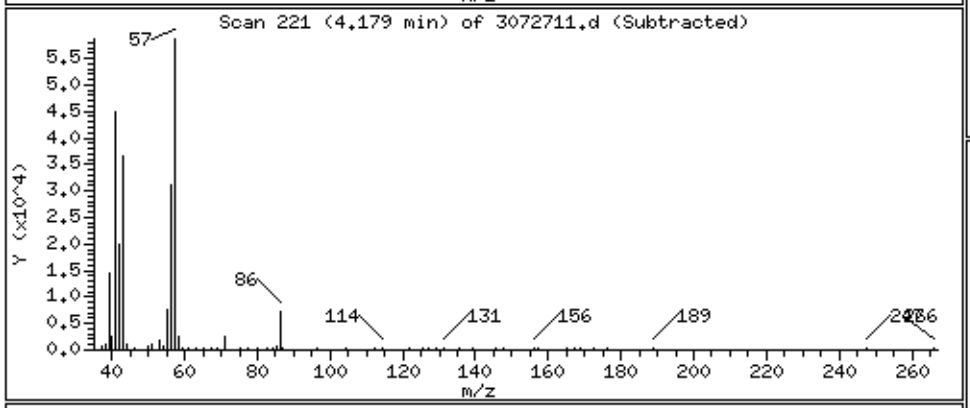
Column phase: RTX-624

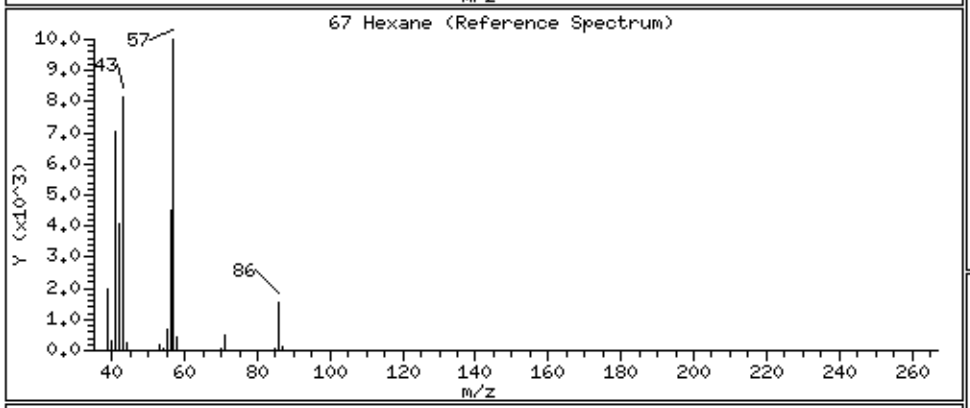
Column diameter: 0.25

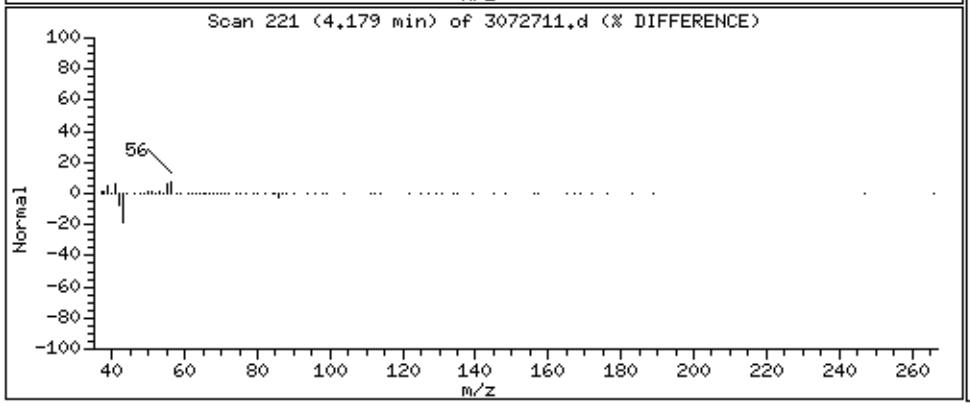
67 Hexane

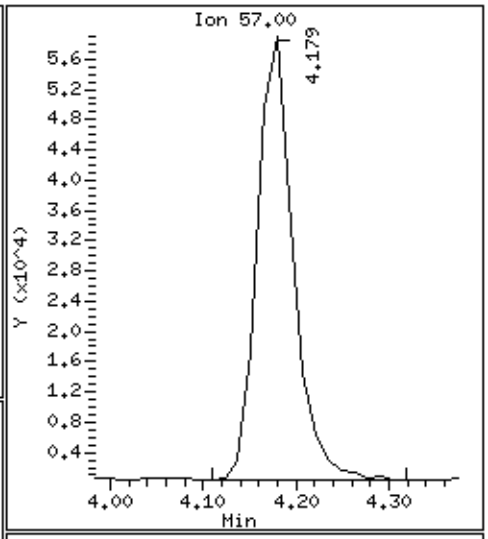
Concentration: 24.543 PPBV

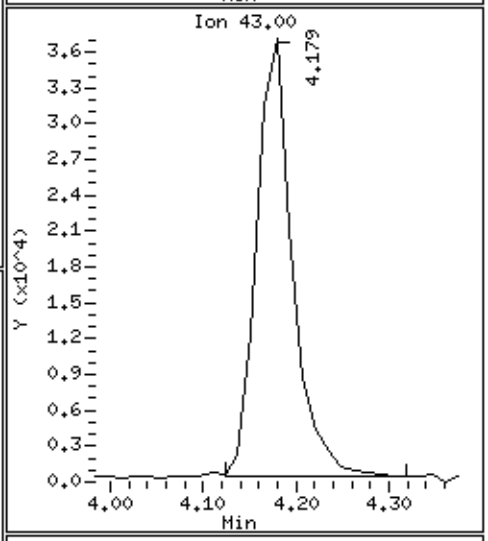


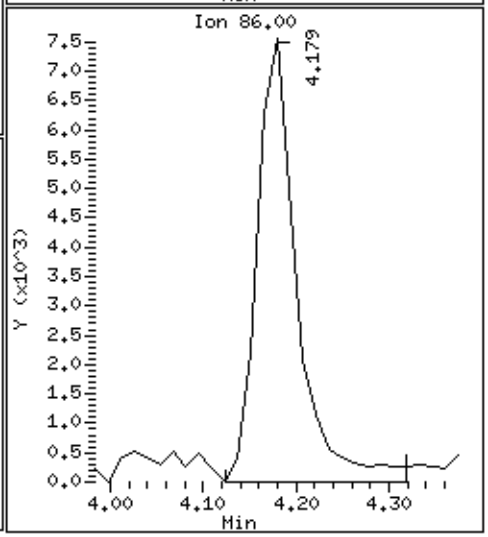












Data File: /chem/msd3.i/27JUL21.b/3072711.d

Date : 27-JUL-2021 17:30

Client ID:

Instrument: msd3.i

Sample Info: 200mL 00775

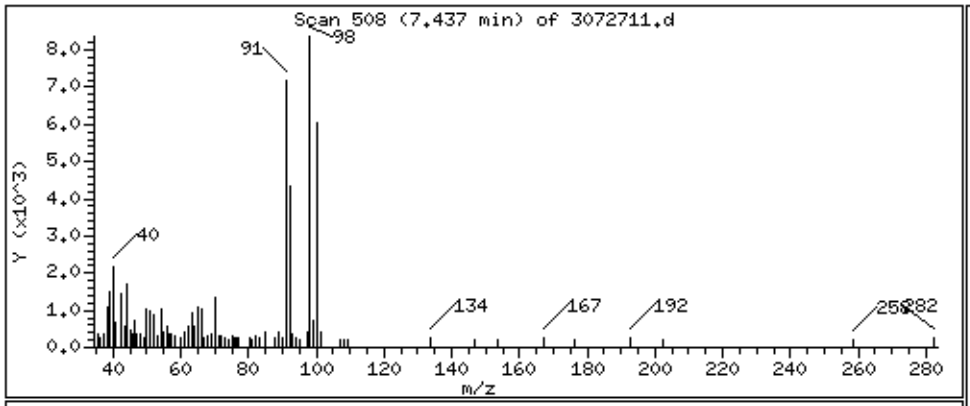
Operator: LD

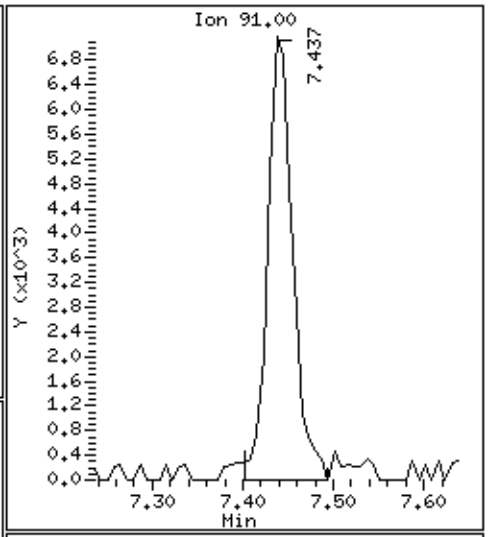
Column phase: RTX-624

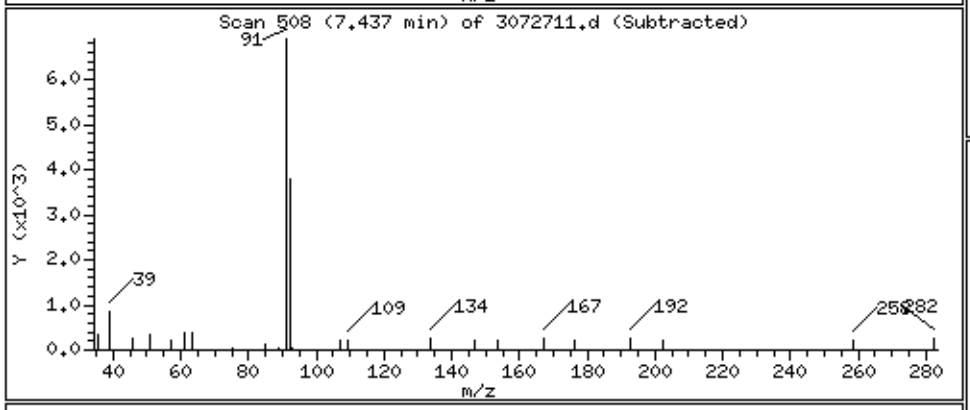
Column diameter: 0.25

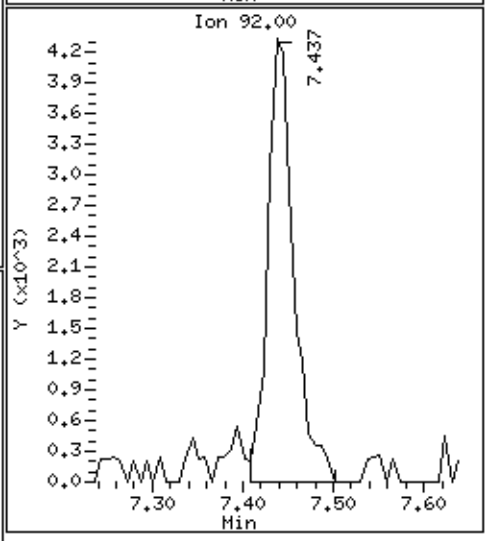
137 Toluene

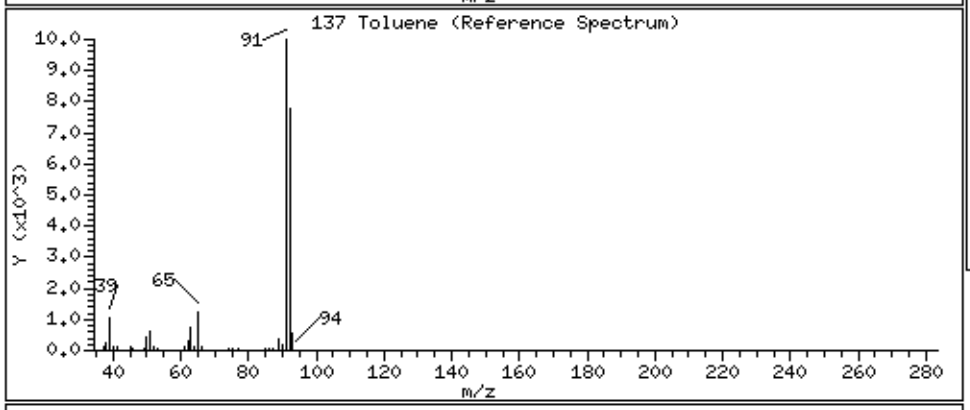
Concentration: 1.147 PPBV

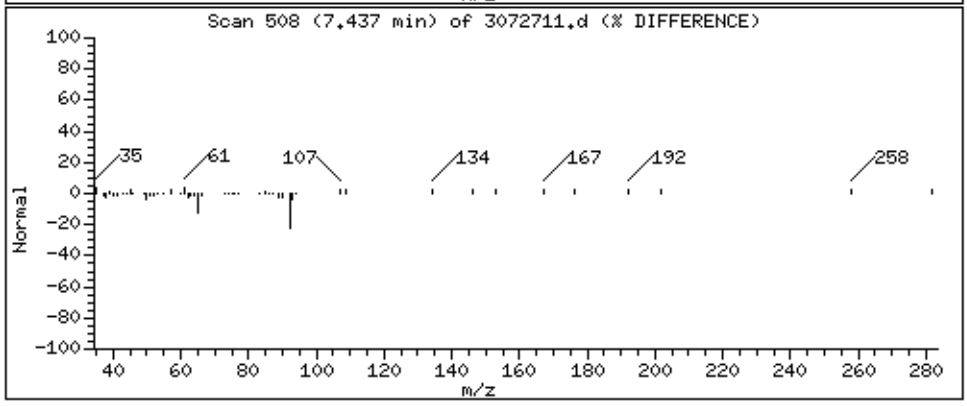












Data File: /chem/msd3.i/27JUL21.b/3072711.d

Date : 27-JUL-2021 17:30

Client ID:

Instrument: msd3.i

Sample Info: 200mL 00775

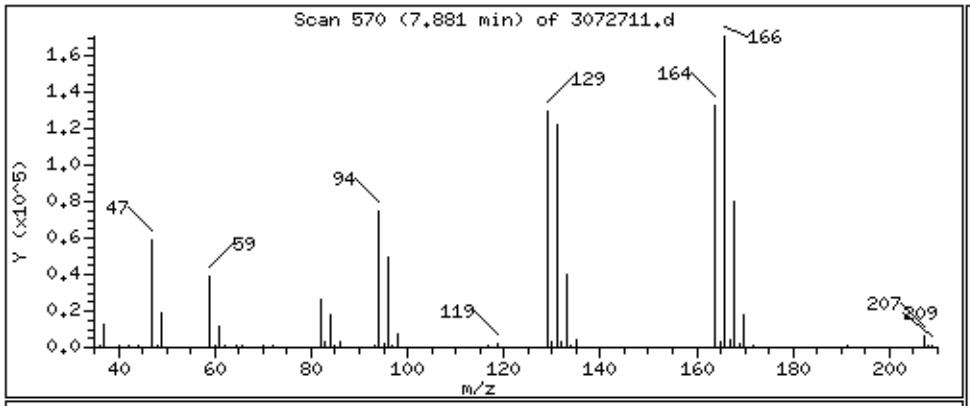
Operator: LD

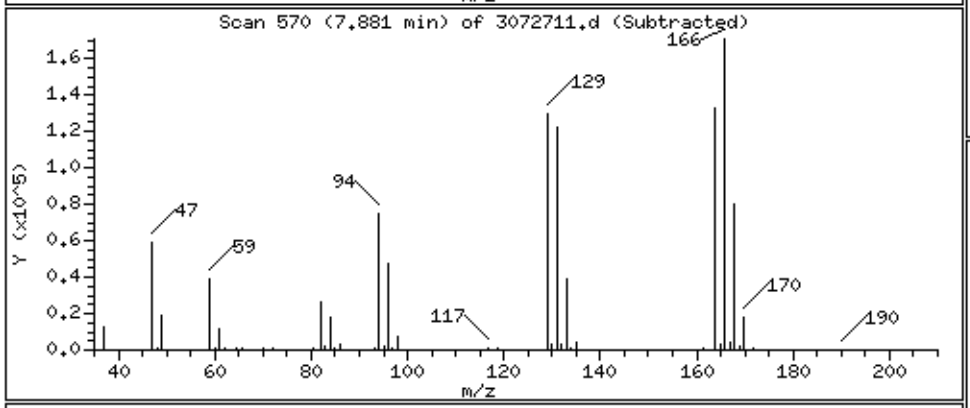
Column phase: RTX-624

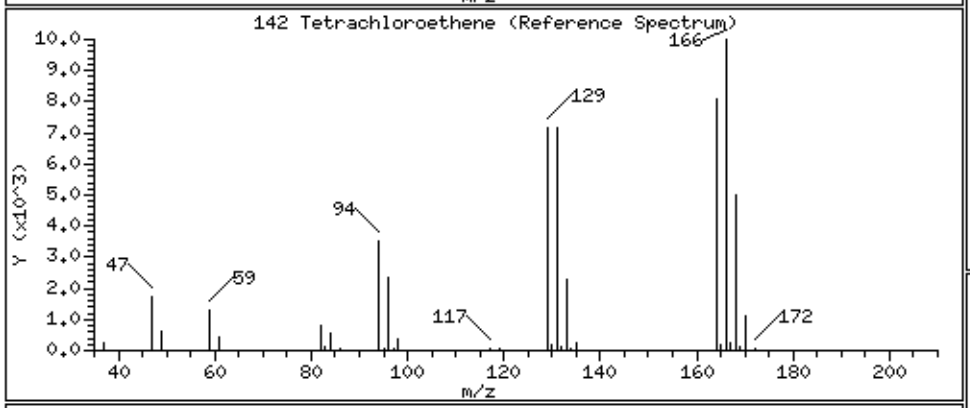
Column diameter: 0.25

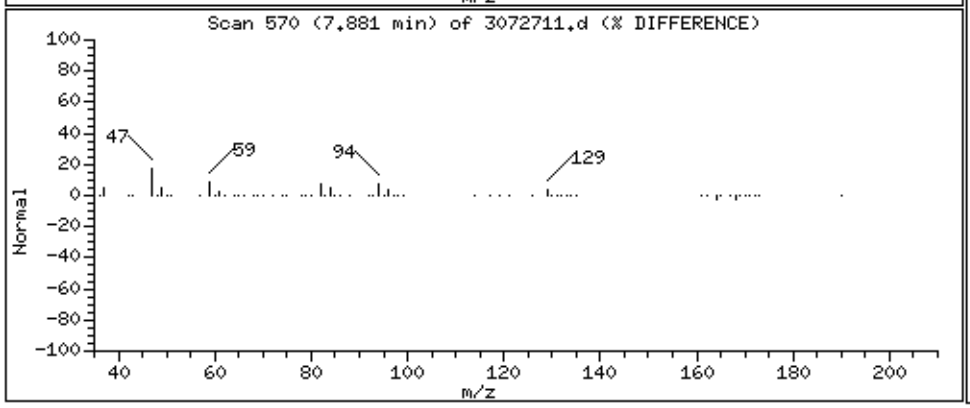
142 Tetrachloroethene

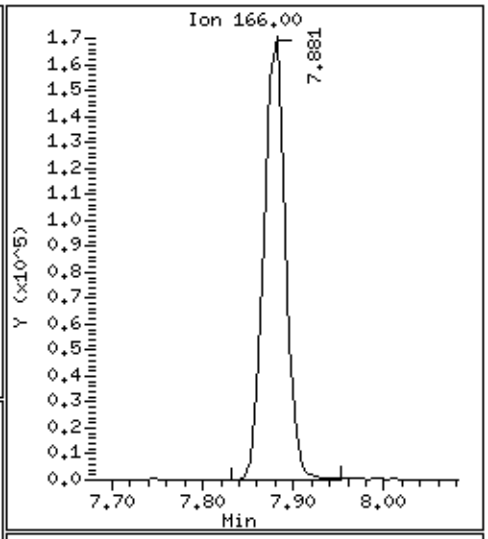
Concentration: 51.214 PPBV

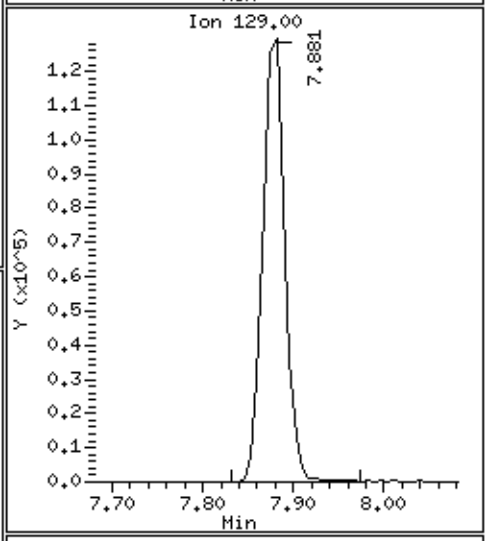


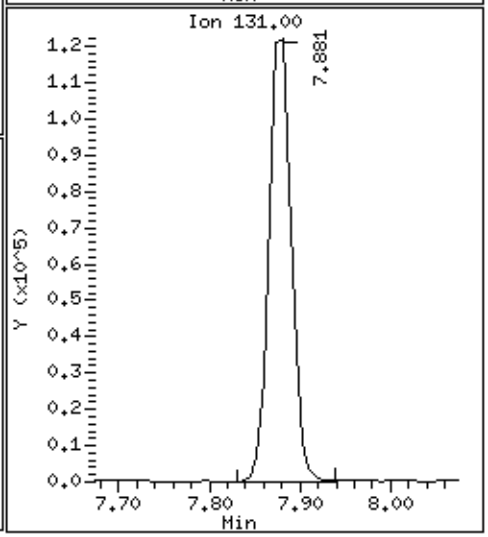












eurofins | Air Toxics

Client Sample ID: SG-VW23B-02

Lab ID#: 2107284-23A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3072712**	**Date of Collection:**	**7/14/21 11:37:00 AM**
Dil. Factor:	**2.13**	**Date of Analysis:**	**7/27/21 06:00 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1,2-Tetrachloroethane	4.3	Not Detected	29	Not Detected
1,1,1-Trichloroethane	1.1	Not Detected	5.8	Not Detected
1,1,2,2-Tetrachloroethane	1.1	Not Detected	7.3	Not Detected
1,1,2-Trichloroethane	1.1	Not Detected	5.8	Not Detected
1,1-Dichloroethane	1.1	Not Detected	4.3	Not Detected
1,1-Dichloroethene	1.1	Not Detected	4.2	Not Detected
1,1-Difluoroethane	4.3	8.8	12	24
1,2,3-Trichloropropane	4.3	Not Detected	26	Not Detected
1,2,4-Trichlorobenzene	4.3	Not Detected	32	Not Detected
1,2,4-Trimethylbenzene	1.1	Not Detected	5.2	Not Detected
1,2-Dibromo-3-chloropropane	4.3	Not Detected	41	Not Detected
1,2-Dibromoethane (EDB)	1.1	Not Detected	8.2	Not Detected
1,2-Dichlorobenzene	1.1	Not Detected	6.4	Not Detected
1,2-Dichloroethane	1.1	Not Detected	4.3	Not Detected
1,2-Dichloropropane	1.1	Not Detected	4.9	Not Detected
1,3,5-Trimethylbenzene	1.1	Not Detected	5.2	Not Detected
1,3-Butadiene	1.1	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	1.1	Not Detected	6.4	Not Detected
1,4-Dichlorobenzene	1.1	Not Detected	6.4	Not Detected
1,4-Dioxane	4.3	Not Detected	15	Not Detected
2,2,4-Trimethylpentane	1.1	Not Detected	5.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.3	Not Detected	12	Not Detected
2-Hexanone	4.3	Not Detected	17	Not Detected
2-Propanol	4.3	5.2	10	13
3-Chloropropene	4.3	Not Detected	13	Not Detected
4-Ethyltoluene	1.1	Not Detected	5.2	Not Detected
4-Methyl-2-pentanone	1.1	Not Detected	4.4	Not Detected
Acetone	11	Not Detected	25	Not Detected
Acrolein	4.3	Not Detected	9.8	Not Detected
Acrylonitrile	4.3	Not Detected	9.2	Not Detected
alpha-Chlorotoluene	1.1	Not Detected	5.5	Not Detected
Benzene	1.1	Not Detected	3.4	Not Detected
Bromodichloromethane	1.1	Not Detected	7.1	Not Detected
Bromoform	1.1	Not Detected	11	Not Detected
Bromomethane	11	Not Detected	41	Not Detected
Carbon Disulfide	4.3	6.8	13	21
Carbon Tetrachloride	1.1	Not Detected	6.7	Not Detected
Chlorobenzene	1.1	Not Detected	4.9	Not Detected
Chloroethane	4.3	Not Detected	11	Not Detected
Chloroform	1.1	Not Detected	5.2	Not Detected
Chloromethane	11	Not Detected	22	Not Detected
cis-1,2-Dichloroethene	1.1	Not Detected	4.2	Not Detected

eurofins | Air Toxics

Client Sample ID: SG-VW23B-02

Lab ID#: 2107284-23A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3072712**	**Date of Collection:**	**7/14/21 11:37:00 AM**
Dil. Factor:	**2.13**	**Date of Analysis:**	**7/27/21 06:00 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,3-Dichloropropene	1.1	Not Detected	4.8	Not Detected
Cumene	1.1	Not Detected	5.2	Not Detected
Cyclohexane	1.1	Not Detected	3.7	Not Detected
Dibromochloromethane	1.1	Not Detected	9.1	Not Detected
Dibromomethane	4.3	Not Detected	30	Not Detected
Ethanol	11	Not Detected	20	Not Detected
Ethyl Acetate	4.3	Not Detected	15	Not Detected
Ethyl Benzene	1.1	Not Detected	4.6	Not Detected
Ethyl-tert-butyl ether	4.3	Not Detected	18	Not Detected
Freon 11	1.1	Not Detected	6.0	Not Detected
Freon 12	1.1	Not Detected	5.3	Not Detected
Freon 113	1.1	Not Detected	8.2	Not Detected
Freon 114	1.1	Not Detected	7.4	Not Detected
Freon 134a	4.3	Not Detected	18	Not Detected
Heptane	1.1	Not Detected	4.4	Not Detected
Hexachlorobutadiene	4.3	Not Detected	45	Not Detected
Hexachloroethane	4.3	Not Detected	41	Not Detected
Hexane	1.1	Not Detected	3.8	Not Detected
Iodomethane	11	Not Detected	62	Not Detected
Isopropyl ether	4.3	Not Detected	18	Not Detected
m,p-Xylene	1.1	Not Detected	4.6	Not Detected
Methyl tert-butyl ether	4.3	Not Detected	15	Not Detected
Methylene Chloride	11	Not Detected	37	Not Detected
Naphthalene	2.1	Not Detected	11	Not Detected
o-Xylene	1.1	Not Detected	4.6	Not Detected
Propylbenzene	1.1	Not Detected	5.2	Not Detected
Propylene	4.3	Not Detected	7.3	Not Detected
Styrene	1.1	Not Detected	4.5	Not Detected
tert-Amyl methyl ether	4.3	Not Detected	18	Not Detected
tert-Butyl alcohol	4.3	Not Detected	13	Not Detected
Tetrachloroethene	1.1	21	7.2	140
Tetrahydrofuran	1.1	Not Detected	3.1	Not Detected
Toluene	1.1	Not Detected	4.0	Not Detected
TPH ref. to Gasoline (MW=100)	110	Not Detected	440	Not Detected
trans-1,2-Dichloroethene	1.1	Not Detected	4.2	Not Detected
trans-1,3-Dichloropropene	1.1	Not Detected	4.8	Not Detected
Trichloroethene	1.1	Not Detected	5.7	Not Detected
Vinyl Acetate	4.3	Not Detected	15	Not Detected
Vinyl Bromide	4.3	Not Detected	19	Not Detected
Vinyl Chloride	1.1	Not Detected	2.7	Not Detected

Container Type: 1 Liter Summa Canister

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Client Sample ID: SG-VW23B-02

Lab ID#: 2107284-23A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3072712**	**Date of Collection:**	**7/14/21 11:37:00 AM**
Dil. Factor:	**2.13**	**Date of Analysis:**	**7/27/21 06:00 PM**

Surrogates	%Recovery	Method Limits
Toluene-d8	96	70-130
1,2-Dichloroethane-d4	98	70-130
4-Bromofluorobenzene	96	70-130

US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msd3.i/27JUL21.b/3072712.d
Lab Smp Id: 2107284-23A
Inj Date : 27-JUL-2021 18:00
Operator : LD Inst ID: msd3.i
Smp Info : 200mL 34001086cl
Misc Info : 6.3 Hg->10 psi
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msd3.i/27JUL21.b/321q0622a.m
Meth Date : 27-Jul-2021 15:31 lk8g Quant Type: ISTD
Cal Date : 23-JUN-2021 00:09 Cal File: 3062223.d
Als bottle: 3
Dil Factor: 2.13000
Integrator: HP RTE Compound Sublist: AEC25677.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE		(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 90 Bromochloromethane						CAS #: 74-97-5		
5.284	5.284 (1.000)	130	272846	25.0000			80.00- 120.00	100.00
5.284	5.284 (1.000)	128	207325				48.46- 108.46	75.99
5.284	5.270 (1.000)	49	382616				120.39- 180.39	140.23
* 108 1,4-Difluorobenzene						CAS #: 540-36-3		
6.180	6.180 (1.000)	114	912900	25.0000			80.00- 120.00	100.00
6.166	6.180 (1.000)	88	129383				0.00- 45.52	14.17
* 153 Chlorobenzene-d5						CAS #: 3114-55-4		
8.619	8.612 (1.000)	117	798407	25.0000			80.00- 120.00	100.00
8.612	8.612 (1.000)	82	420147				25.46- 85.46	52.62
$ 104 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
5.816	5.816 (1.101)	65	369189	24.5880	24.588		80.00- 120.00	100.00
5.816	5.816 (1.101)	67	177356				21.66- 81.66	48.04
$ 134 Toluene-d8						CAS #: 2037-26-5		
7.387	7.387 (1.195)	98	907463	24.1341	24.134		80.00- 120.00	100.00
7.387	7.387 (1.195)	70	102211				0.00- 41.47	11.26

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 134 Toluene-d8 (continued)							
7.387	7.387 (1.195)	100	595492			36.47- 96.47	65.62
$ 170 4-Bromofluorobenzene					CAS #: 460-00-4		
9.601	9.601 (1.114)	174	504370	23.8831	23.883	80.00- 120.00	100.00
9.601	9.601 (1.114)	95	566011			93.06- 153.06	112.22
9.601	9.601 (1.114)	176	463550			62.87- 122.87	91.91
7 1,1-Difluoroethane					CAS #: 75-37-6		
1.451	1.437 (0.274)	65	17725	4.12587	8.788	80.00- 120.00	100.00
1.492	1.479 (0.282)	51	132277			321.86- 381.86	746.27
1.465	1.451 (0.277)	47	10454			45.34- 105.34	58.98
48 Carbon Disulfide					CAS #: 75-15-0		
3.311	3.298 (0.627)	76	66232	3.21487	6.848	80.00- 120.00	100.00
52 2-Propanol					CAS #: 67-63-0		
3.423	3.409 (0.648)	45	40579	2.46627	5.253	80.00- 120.00	100.00
3.423	3.395 (0.648)	43	8950			0.00- 48.61	22.06
142 Tetrachloroethene					CAS #: 127-18-4		
7.881	7.881 (0.914)	166	122360	9.78257	20.837	80.00- 120.00	100.00
7.874	7.881 (0.914)	129	94001			48.71- 108.71	76.82
7.881	7.874 (0.914)	131	91429			46.55- 106.55	74.72

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd3.i
Lab File ID: 3072712.d
Lab Smp Id: 2107284-23A
Analysis Type: VOA
Quant Type: ISTD
Operator: LD
Method File: /chem/msd3.i/27JUL21.b/321q0622a.m
Misc Info: 6.3 Hg->10 psi

Calibration Date: 27-JUL-2021
Calibration Time: 11:36
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	238986	143392	334580	272846	14.17
108 1,4-Difluorobenze	785289	471173	1099405	912900	16.25
153 Chlorobenzene-d5	683596	410158	957034	798407	16.80

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.28	4.95	5.61	5.28	-0.00
108 1,4-Difluorobenze	6.18	5.85	6.51	6.18	-0.00
153 Chlorobenzene-d5	8.61	8.28	8.94	8.62	0.08

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 28-Jul-2021 15:42

US32TAR1

RECOVERY REPORT

Client Name: Client SDG: 27JUL21
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 2107284-23A
Level: LOW Operator: LD
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT20_new.spk Quant Type: ISTD
Sublist File: AEC25677.sub
Method File: /chem/msd3.i/27JUL21.b/321q0622a.m
Misc Info: 6.3 Hg->10 psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 104 1,2-Dichloroethan	25.000	24.588	98.35	70-130
$ 134 Toluene-d8	25.000	24.134	96.54	70-130
$ 170 4-Bromofluorobenz	25.000	23.883	95.53	70-130

Data File: /chem/msd3.i/27JUL21.b/3072712.d

Date : 27-JUL-2021 18:00

Client ID:

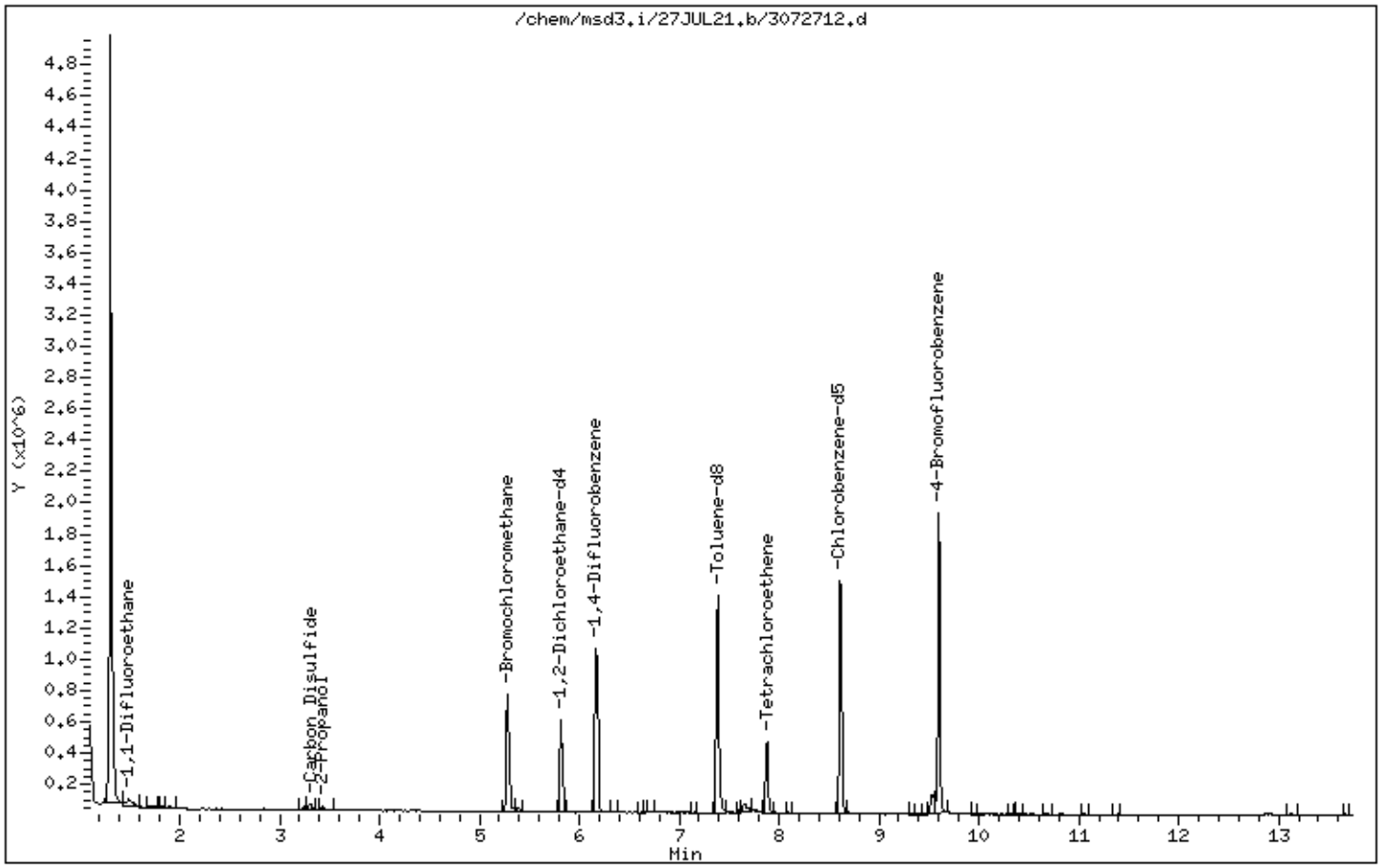
Instrument: msd3.i

Sample Info: 200mL 34001086cl

Operator: LD

Column phase: RTX-624

Column diameter: 0.25



Data File: /chem/msd3.i/27JUL21.b/3072712.d

Date : 27-JUL-2021 18:00

Client ID:

Instrument: msd3.i

Sample Info: 200mL 34001086cl

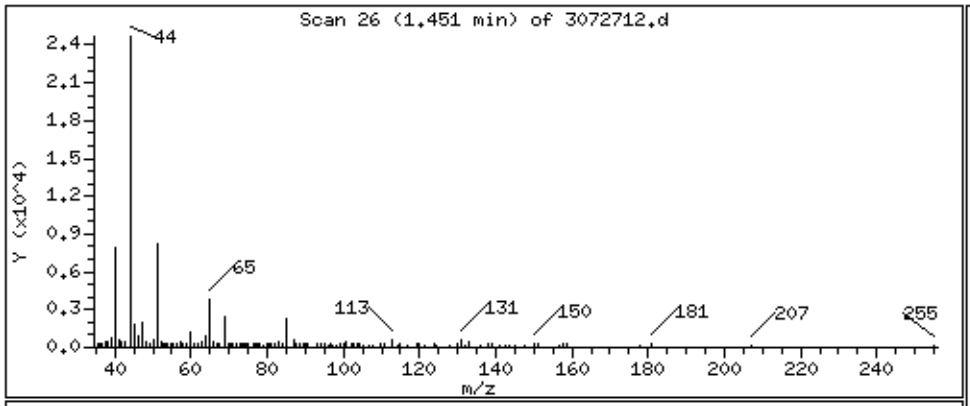
Operator: LD

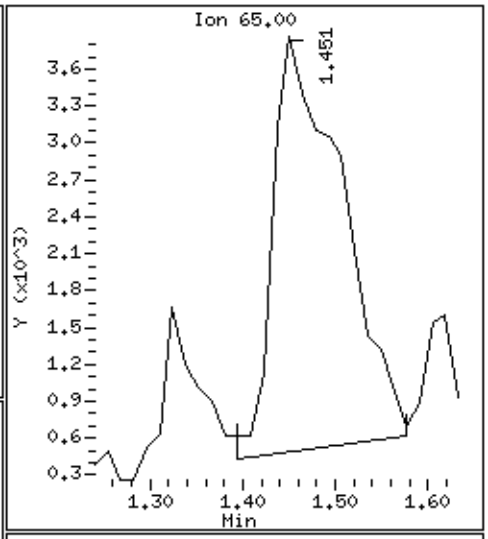
Column phase: RTX-624

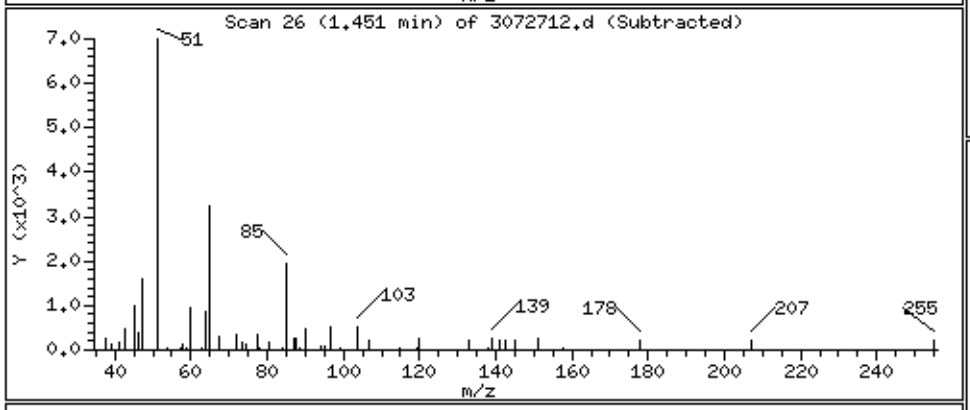
Column diameter: 0.25

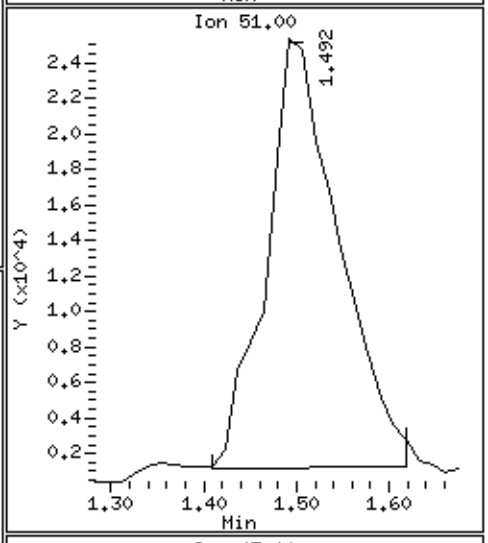
7 1,1-Difluoroethane

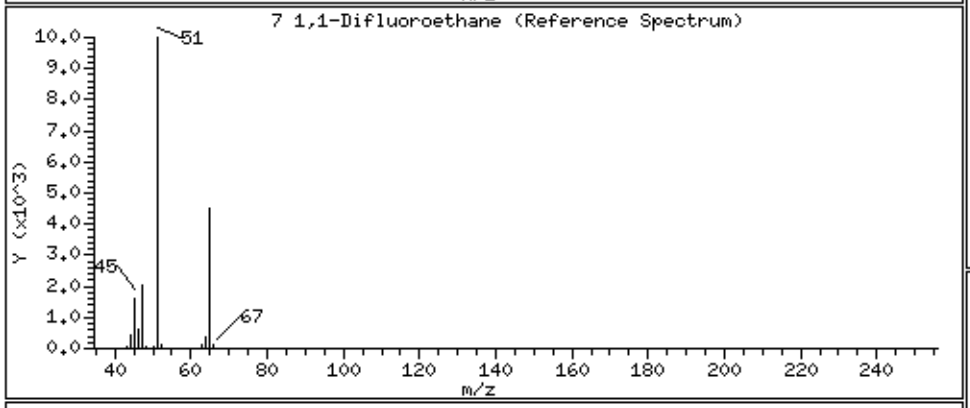
Concentration: 8.788 PPBV

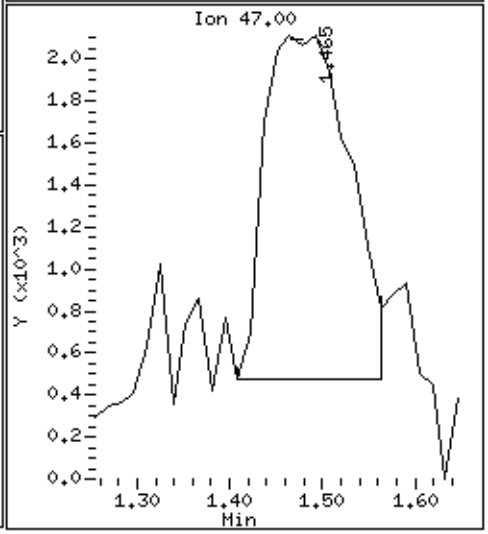


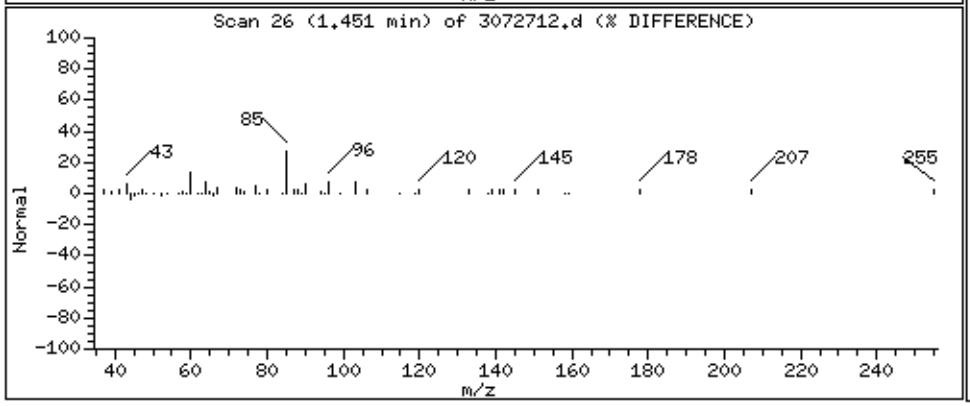












Data File: /chem/msd3.i/27JUL21.b/3072712.d

Date : 27-JUL-2021 18:00

Client ID:

Instrument: msd3.i

Sample Info: 200mL 34001086cl

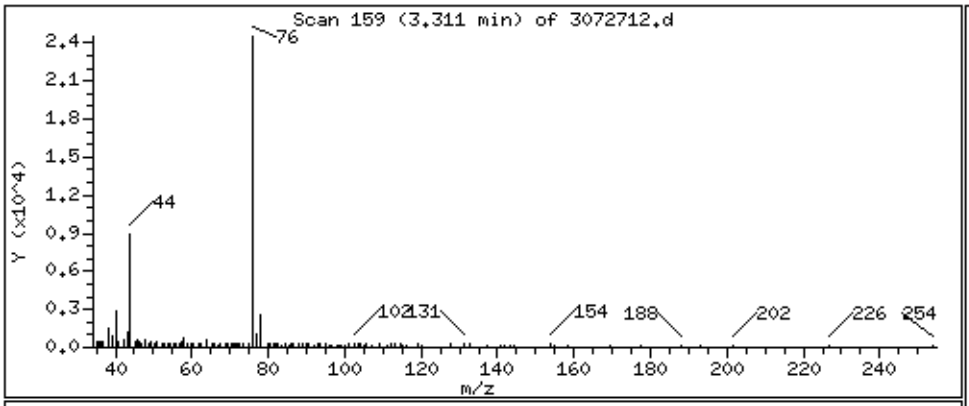
Operator: LD

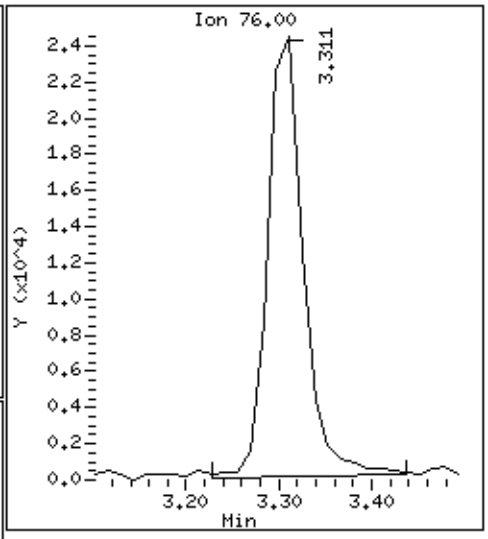
Column phase: RTX-624

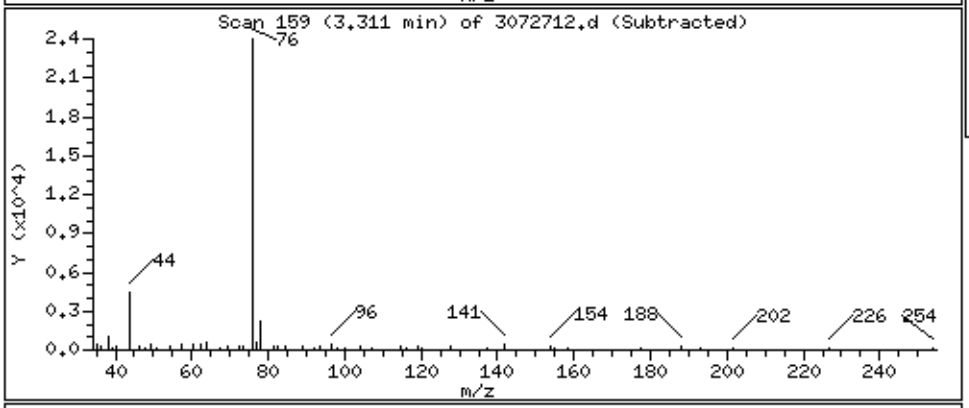
Column diameter: 0.25

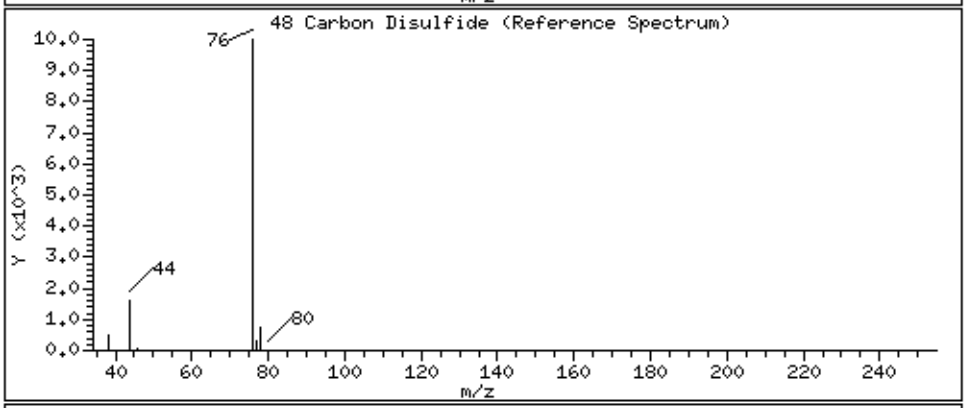
48 Carbon Disulfide

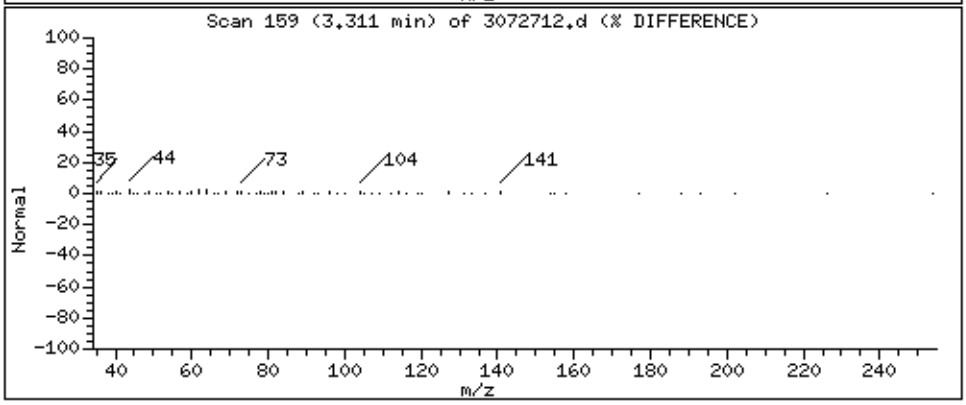
Concentration: 6.848 PPBV











Data File: /chem/msd3.i/27JUL21.b/3072712.d

Date : 27-JUL-2021 18:00

Client ID:

Instrument: msd3.i

Sample Info: 200mL 34001086cl

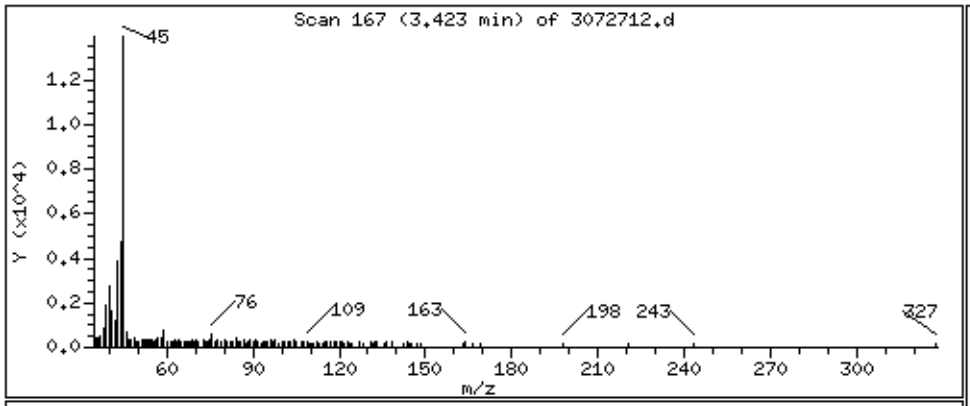
Operator: LD

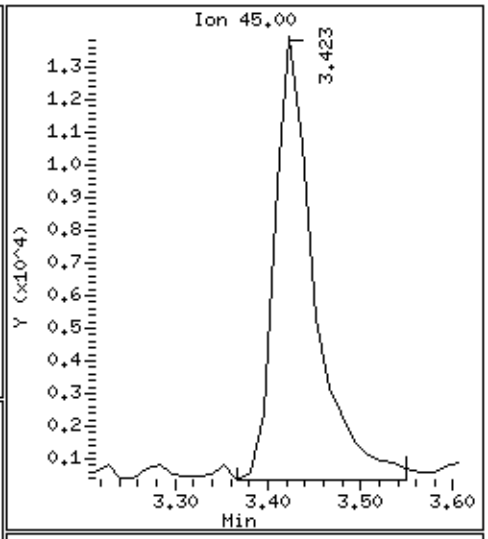
Column phase: RTX-624

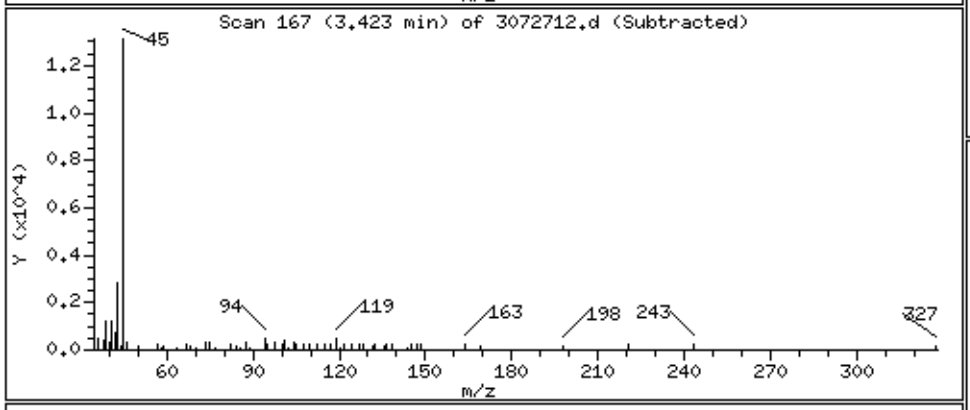
Column diameter: 0.25

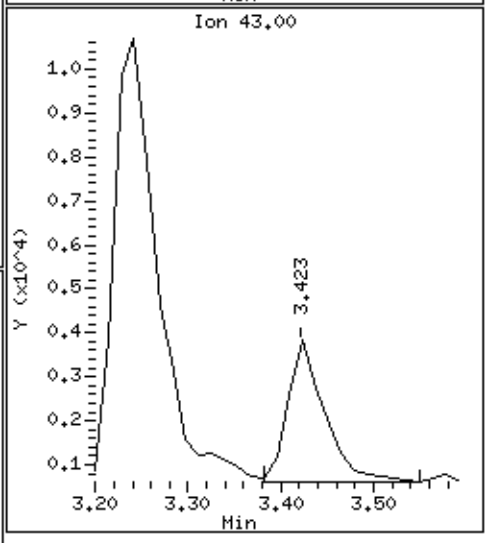
52 2-Propanol

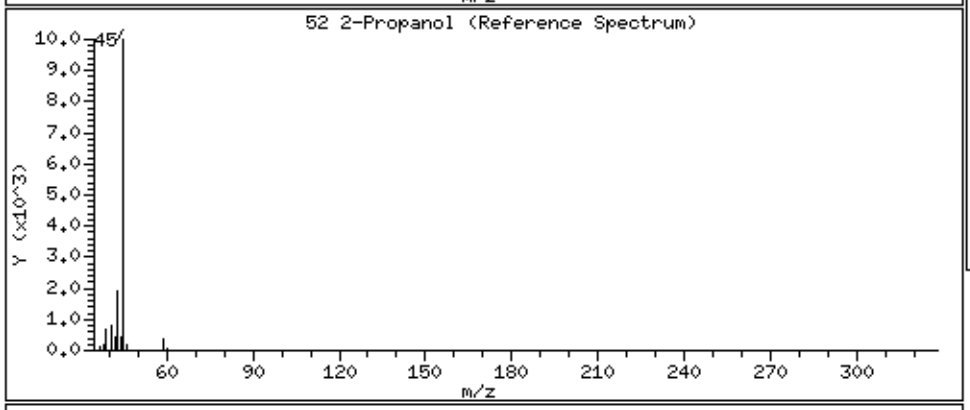
Concentration: 5.253 PPBV

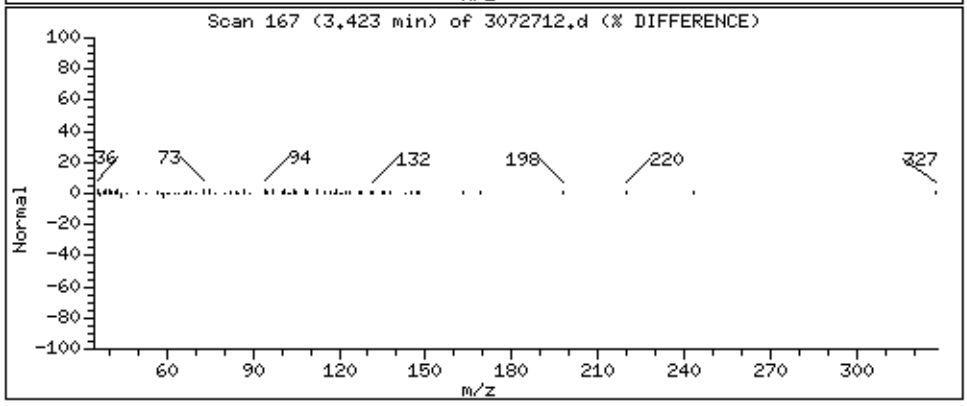












Data File: /chem/msd3.i/27JUL21.b/3072712.d

Date : 27-JUL-2021 18:00

Client ID:

Instrument: msd3.i

Sample Info: 200mL 34001086cl

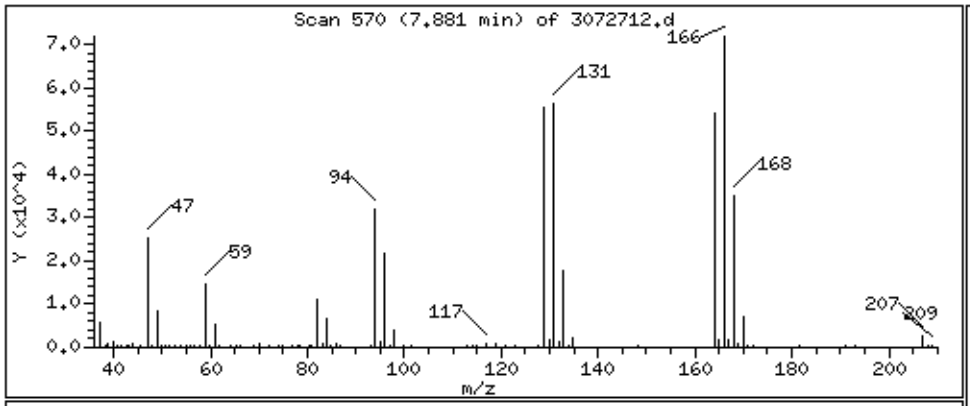
Operator: LD

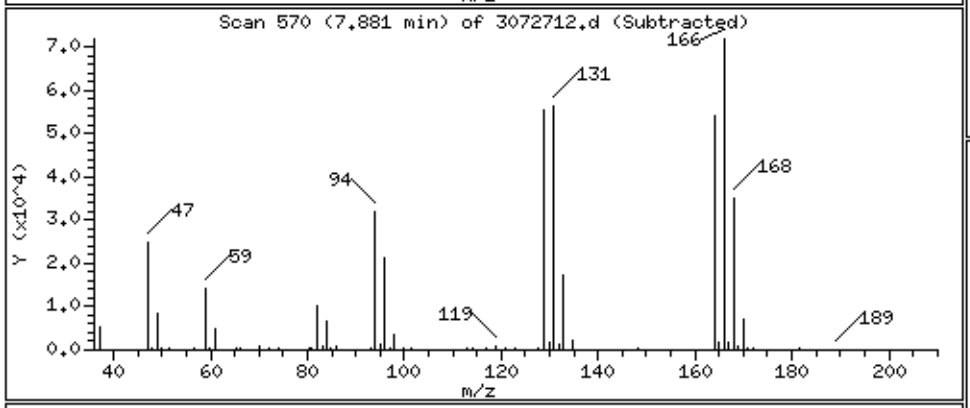
Column phase: RTX-624

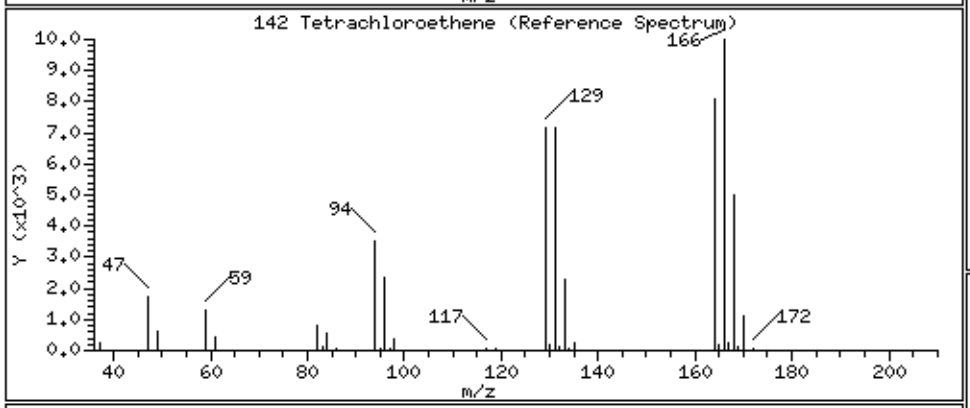
Column diameter: 0.25

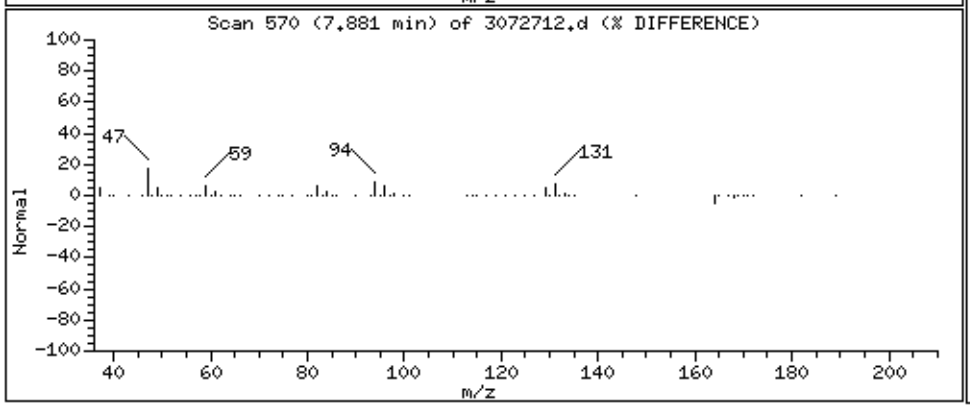
142 Tetrachloroethene

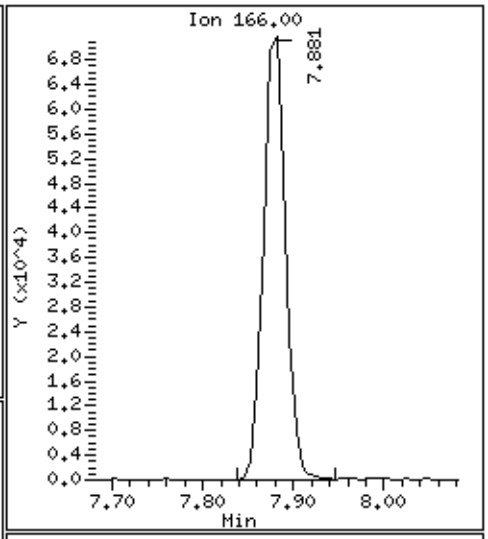
Concentration: 20.837 PPBV

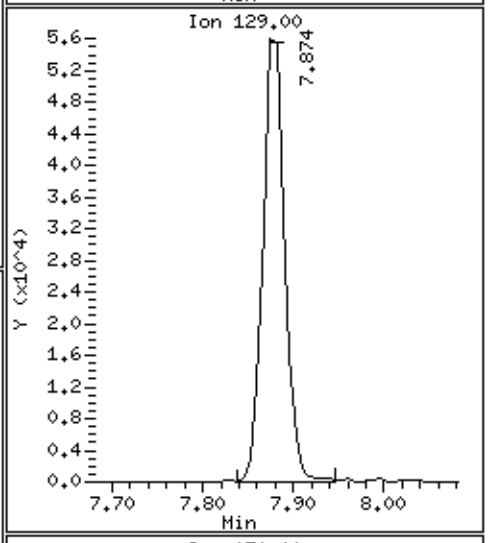


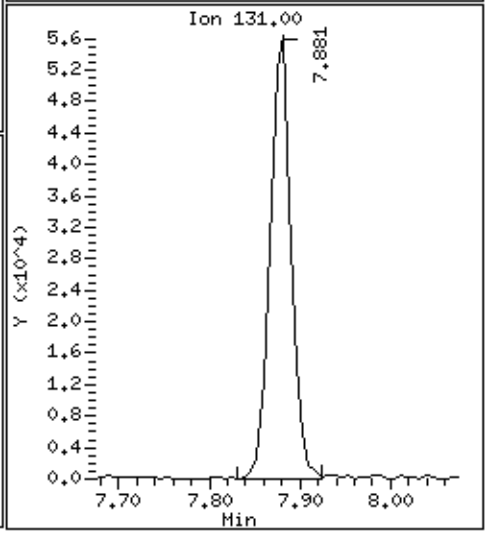












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Client Sample ID: SG-VW22A-02

Lab ID#: 2107284-24A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3072713**	**Date of Collection:**	**7/14/21 12:40:00 PM**
Dil. Factor:	**2.18**	**Date of Analysis:**	**7/27/21 06:29 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1,2-Tetrachloroethane	4.4	Not Detected	30	Not Detected
1,1,1-Trichloroethane	1.1	Not Detected	5.9	Not Detected
1,1,2,2-Tetrachloroethane	1.1	Not Detected	7.5	Not Detected
1,1,2-Trichloroethane	1.1	Not Detected	5.9	Not Detected
1,1-Dichloroethane	1.1	Not Detected	4.4	Not Detected
1,1-Dichloroethene	1.1	Not Detected	4.3	Not Detected
1,1-Difluoroethane	4.4	Not Detected	12	Not Detected
1,2,3-Trichloropropane	4.4	Not Detected	26	Not Detected
1,2,4-Trichlorobenzene	4.4	Not Detected	32	Not Detected
1,2,4-Trimethylbenzene	1.1	3.2	5.4	16
1,2-Dibromo-3-chloropropane	4.4	Not Detected	42	Not Detected
1,2-Dibromoethane (EDB)	1.1	Not Detected	8.4	Not Detected
1,2-Dichlorobenzene	1.1	Not Detected	6.6	Not Detected
1,2-Dichloroethane	1.1	Not Detected	4.4	Not Detected
1,2-Dichloropropane	1.1	Not Detected	5.0	Not Detected
1,3,5-Trimethylbenzene	1.1	Not Detected	5.4	Not Detected
1,3-Butadiene	1.1	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	1.1	Not Detected	6.6	Not Detected
1,4-Dichlorobenzene	1.1	Not Detected	6.6	Not Detected
1,4-Dioxane	4.4	Not Detected	16	Not Detected
2,2,4-Trimethylpentane	1.1	Not Detected	5.1	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.4	Not Detected	13	Not Detected
2-Hexanone	4.4	Not Detected	18	Not Detected
2-Propanol	4.4	4.3 J	11	11 J
3-Chloropropene	4.4	Not Detected	14	Not Detected
4-Ethyltoluene	1.1	2.7	5.4	13
4-Methyl-2-pentanone	1.1	Not Detected	4.5	Not Detected
Acetone	11	Not Detected	26	Not Detected
Acrolein	4.4	Not Detected	10	Not Detected
Acrylonitrile	4.4	Not Detected	9.5	Not Detected
alpha-Chlorotoluene	1.1	Not Detected	5.6	Not Detected
Benzene	1.1	Not Detected	3.5	Not Detected
Bromodichloromethane	1.1	Not Detected	7.3	Not Detected
Bromoform	1.1	Not Detected	11	Not Detected
Bromomethane	11	Not Detected	42	Not Detected
Carbon Disulfide	4.4	Not Detected	14	Not Detected
Carbon Tetrachloride	1.1	Not Detected	6.8	Not Detected
Chlorobenzene	1.1	Not Detected	5.0	Not Detected
Chloroethane	4.4	Not Detected	12	Not Detected
Chloroform	1.1	2.4	5.3	12
Chloromethane	11	Not Detected	22	Not Detected
cis-1,2-Dichloroethene	1.1	Not Detected	4.3	Not Detected

eurofins | Air Toxics

Client Sample ID: SG-VW22A-02

Lab ID#: 2107284-24A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3072713**	**Date of Collection:**	**7/14/21 12:40:00 PM**
Dil. Factor:	**2.18**	**Date of Analysis:**	**7/27/21 06:29 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,3-Dichloropropene	1.1	Not Detected	4.9	Not Detected
Cumene	1.1	Not Detected	5.4	Not Detected
Cyclohexane	1.1	Not Detected	3.8	Not Detected
Dibromochloromethane	1.1	Not Detected	9.3	Not Detected
Dibromomethane	4.4	Not Detected	31	Not Detected
Ethanol	11	Not Detected	20	Not Detected
Ethyl Acetate	4.4	Not Detected	16	Not Detected
Ethyl Benzene	1.1	1.5	4.7	6.5
Ethyl-tert-butyl ether	4.4	Not Detected	18	Not Detected
Freon 11	1.1	Not Detected	6.1	Not Detected
Freon 12	1.1	Not Detected	5.4	Not Detected
Freon 113	1.1	Not Detected	8.4	Not Detected
Freon 114	1.1	Not Detected	7.6	Not Detected
Freon 134a	4.4	Not Detected	18	Not Detected
Heptane	1.1	Not Detected	4.5	Not Detected
Hexachlorobutadiene	4.4	Not Detected	46	Not Detected
Hexachloroethane	4.4	Not Detected	42	Not Detected
Hexane	1.1	Not Detected	3.8	Not Detected
Iodomethane	11	Not Detected	63	Not Detected
Isopropyl ether	4.4	Not Detected	18	Not Detected
m,p-Xylene	1.1	4.2	4.7	18
Methyl tert-butyl ether	4.4	Not Detected	16	Not Detected
Methylene Chloride	11	Not Detected	38	Not Detected
Naphthalene	2.2	Not Detected	11	Not Detected
o-Xylene	1.1	2.4	4.7	10
Propylbenzene	1.1	Not Detected	5.4	Not Detected
Propylene	4.4	Not Detected	7.5	Not Detected
Styrene	1.1	Not Detected	4.6	Not Detected
tert-Amyl methyl ether	4.4	Not Detected	18	Not Detected
tert-Butyl alcohol	4.4	Not Detected	13	Not Detected
Tetrachloroethene	1.1	17	7.4	110
Tetrahydrofuran	1.1	Not Detected	3.2	Not Detected
Toluene	1.1	6.9	4.1	26
TPH ref. to Gasoline (MW=100)	110	Not Detected	440	Not Detected
trans-1,2-Dichloroethene	1.1	Not Detected	4.3	Not Detected
trans-1,3-Dichloropropene	1.1	Not Detected	4.9	Not Detected
Trichloroethene	1.1	1.2	5.8	6.7
Vinyl Acetate	4.4	Not Detected	15	Not Detected
Vinyl Bromide	4.4	Not Detected	19	Not Detected
Vinyl Chloride	1.1	Not Detected	2.8	Not Detected

eurofins | Air Toxics

Client Sample ID: SG-VW22A-02

Lab ID#: 2107284-24A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3072713**	**Date of Collection: 7/14/21 12:40:00 PM**
Dil. Factor:	**2.18**	**Date of Analysis: 7/27/21 06:29 PM**

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	97	70-130
1,2-Dichloroethane-d4	96	70-130
4-Bromofluorobenzene	94	70-130

US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msd3.i/27JUL21.b/3072713.d
Lab Smp Id: 2107284-24A
Inj Date : 27-JUL-2021 18:29
Operator : LD Inst ID: msd3.i
Smp Info : 200mL N2619
Misc Info : 6.9 Hg->10 psi
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msd3.i/27JUL21.b/321q0622a.m
Meth Date : 27-Jul-2021 15:31 lk8g Quant Type: ISTD
Cal Date : 23-JUN-2021 00:09 Cal File: 3062223.d
Als bottle: 4
Dil Factor: 2.18000
Integrator: HP RTE Compound Sublist: AEC25677.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE		(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 90 Bromochloromethane						CAS #: 74-97-5		
5.284	5.284 (1.000)	130	253230	25.0000			80.00- 120.00	100.00
5.284	5.284 (1.000)	128	195260				48.46- 108.46	77.11
5.270	5.270 (1.000)	49	362944				120.39- 180.39	143.33
* 108 1,4-Difluorobenzene						CAS #: 540-36-3		
6.166	6.180 (1.000)	114	829096	25.0000			80.00- 120.00	100.00
6.166	6.180 (1.000)	88	121048				0.00- 45.52	14.60
* 153 Chlorobenzene-d5						CAS #: 3114-55-4		
8.612	8.612 (1.000)	117	762549	25.0000			80.00- 120.00	100.00
8.612	8.612 (1.000)	82	395329				25.46- 85.46	51.84
$ 104 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
5.816	5.816 (1.101)	65	332906	23.8890	23.889		80.00- 120.00	100.00
5.816	5.816 (1.101)	67	161341				21.66- 81.66	48.46
$ 134 Toluene-d8						CAS #: 2037-26-5		
7.387	7.387 (1.198)	98	828366	24.2574	24.257		80.00- 120.00	100.00
7.387	7.387 (1.198)	70	90867				0.00- 41.47	10.97

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 134 Toluene-d8 (continued)							
7.387	7.387 (1.198)	100	548351			36.47- 96.47	66.20
$ 170 4-Bromofluorobenzene					CAS #: 460-00-4		
9.601	9.601 (1.115)	174	473047	23.4533	23.453	80.00- 120.00	100.00
9.601	9.601 (1.115)	95	538353			93.06- 153.06	113.81
9.601	9.601 (1.115)	176	433585			62.87- 122.87	91.66
52 2-Propanol					CAS #: 67-63-0		
3.466	3.409 (0.656)	45	30216	1.97870	4.314	80.00- 120.00	100.00(a)
3.466	3.395 (0.656)	43	6989			0.00- 48.61	23.13
92 Chloroform					CAS #: 67-66-3		
5.340	5.340 (1.011)	83	17412	1.09669	2.391	80.00- 120.00	100.00
5.340	5.340 (1.011)	85	11524			34.71- 94.71	66.18
111 Trichloroethene					CAS #: 79-01-6		
6.362	6.362 (1.032)	95	5431	0.57219	1.247	80.00- 120.00	100.00
6.362	6.362 (1.032)	130	5503			74.96- 134.96	101.32
6.362	6.362 (1.032)	97	3656			34.80- 94.80	67.31
137 Toluene					CAS #: 108-88-3		
7.437	7.437 (1.206)	91	79962	3.14980	6.866	80.00- 120.00	100.00
7.437	7.437 (1.206)	92	46795			28.30- 88.30	58.52
142 Tetrachloroethene					CAS #: 127-18-4		
7.874	7.881 (0.914)	166	91804	7.68479	16.753	80.00- 120.00	100.00
7.874	7.881 (0.914)	129	70420			48.71- 108.71	76.71
7.874	7.874 (0.914)	131	69843			46.55- 106.55	76.08
155 Ethyl Benzene					CAS #: 100-41-4		
8.691	8.684 (1.009)	106	7169	0.68791	1.500	80.00- 120.00	100.00
8.684	8.684 (1.008)	91	21246			282.48- 342.48	296.34
158 m,p-Xylene					CAS #: 108-38-3		
8.784	8.784 (1.020)	106	24732	1.90757	4.158	80.00- 120.00	100.00
8.784	8.784 (1.020)	91	50121			171.36- 231.36	202.65
164 o-Xylene					CAS #: 95-47-6		
9.121	9.121 (1.059)	106	13551	1.10096	2.400	80.00- 120.00	100.00
9.121	9.121 (1.059)	91	25866			179.99- 239.99	190.87
183 4-Ethyltoluene					CAS #: 622-96-8		
9.830	9.851 (1.141)	120	14409	1.22426	2.669	80.00- 120.00	100.00
9.830	9.851 (1.141)	105	44854			296.79- 356.79	311.28

					CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
RT	EXP RT (REL RT)	MASS	RESPONSE					
==	====== ========	====	========		=======	=======	==========	=====
190 1,2,4-Trimethylbenzene						CAS #: 95-63-6		
10.224	10.224 (1.187)	105	47272	1.45020		3.161	80.00- 120.00	100.00
10.224	10.224 (1.187)	120	22661				16.58- 76.58	47.94

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd3.i
Lab File ID: 3072713.d
Lab Smp Id: 2107284-24A
Analysis Type: VOA
Quant Type: ISTD
Operator: LD
Method File: /chem/msd3.i/27JUL21.b/321q0622a.m
Misc Info: 6.9 Hg->10 psi

Calibration Date: 27-JUL-2021
Calibration Time: 11:36
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	238986	143392	334580	253230	5.96
108 1,4-Difluorobenze	785289	471173	1099405	829096	5.58
153 Chlorobenzene-d5	683596	410158	957034	762549	11.55

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.28	4.95	5.61	5.28	0.00
108 1,4-Difluorobenze	6.18	5.85	6.51	6.17	-0.23
153 Chlorobenzene-d5	8.61	8.28	8.94	8.61	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 28-Jul-2021 15:42

US32TAR1

RECOVERY REPORT

Client Name: Client SDG: 27JUL21
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 2107284-24A
Level: LOW Operator: LD
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT20_new.spk Quant Type: ISTD
Sublist File: AEC25677.sub
Method File: /chem/msd3.i/27JUL21.b/321q0622a.m
Misc Info: 6.9 Hg->10 psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 104 1,2-Dichloroethan	25.000	23.889	95.56	70-130
$ 134 Toluene-d8	25.000	24.257	97.03	70-130
$ 170 4-Bromofluorobenz	25.000	23.453	93.81	70-130

Data File: /chem/msd3.i/27JUL21.b/3072713.d

Date : 27-JUL-2021 18:29

Client ID:

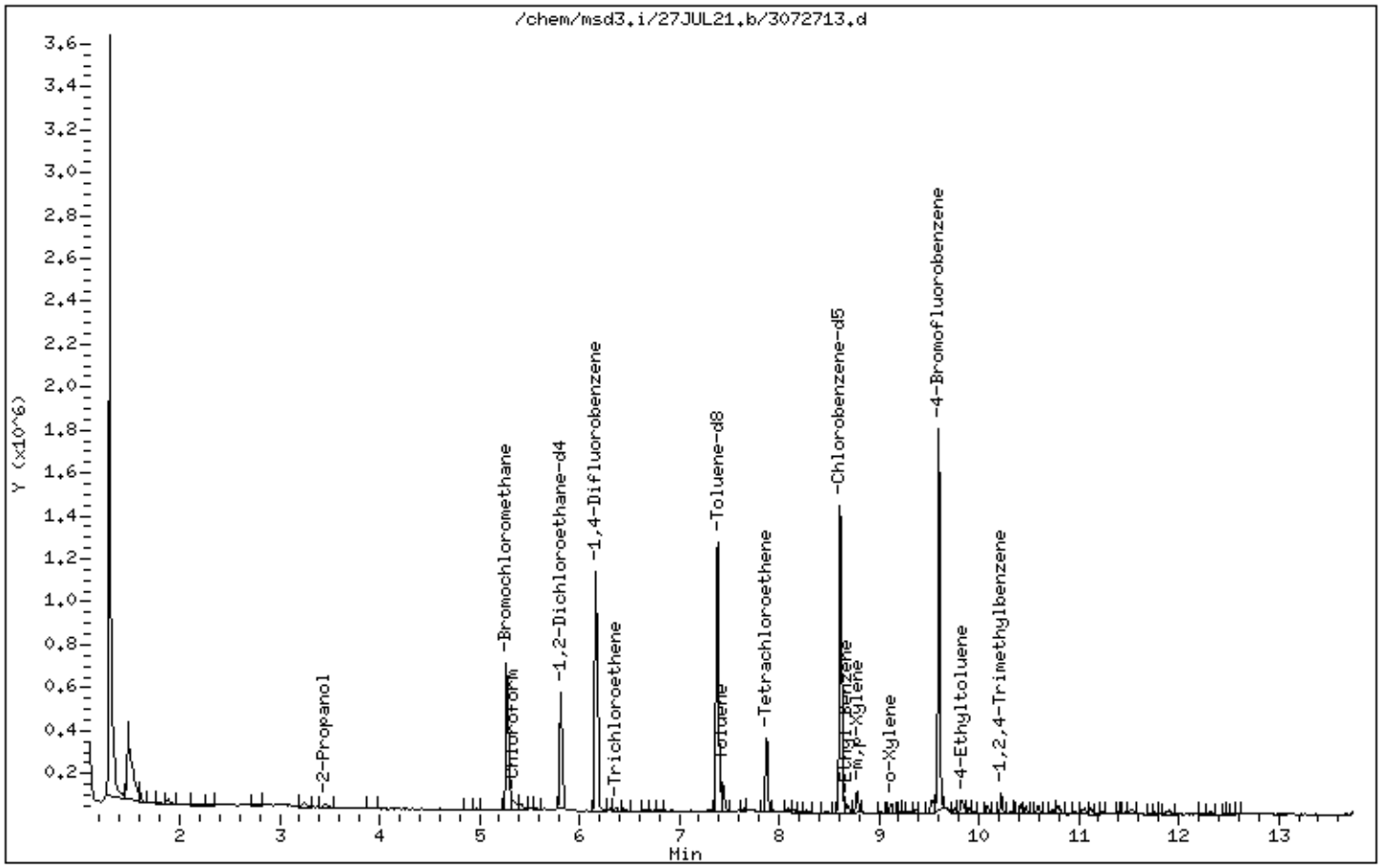
Instrument: msd3.i

Sample Info: 200mL N2619

Operator: LD

Column phase: RTX-624

Column diameter: 0.25



Data File: /chem/msd3.i/27JUL21.b/3072713.d

Date : 27-JUL-2021 18:29

Client ID:

Instrument: msd3.i

Sample Info: 200mL N2619

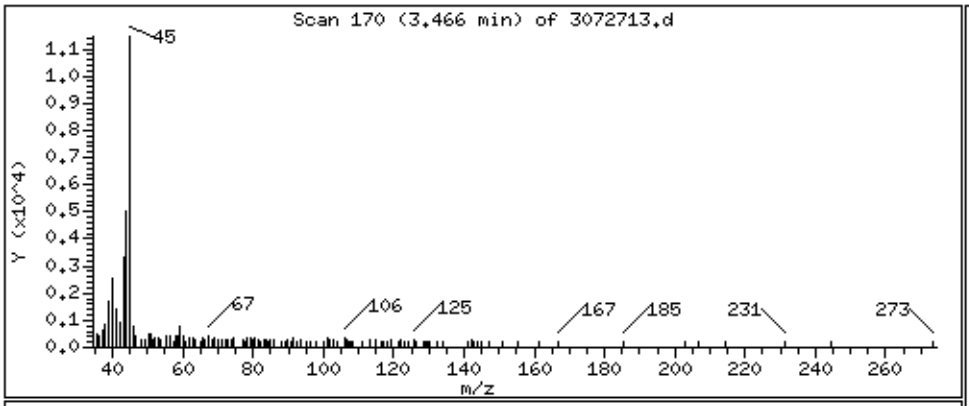
Operator: LD

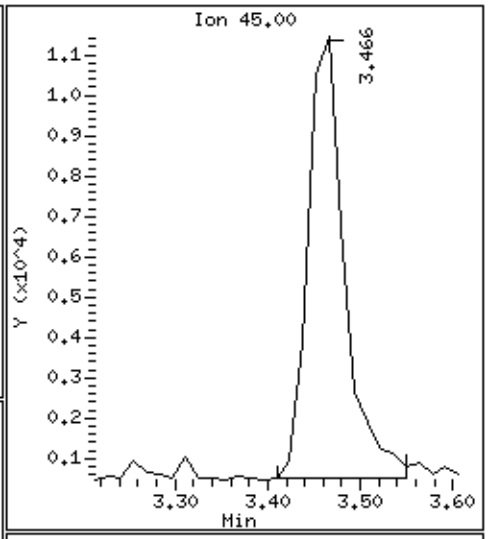
Column phase: RTX-624

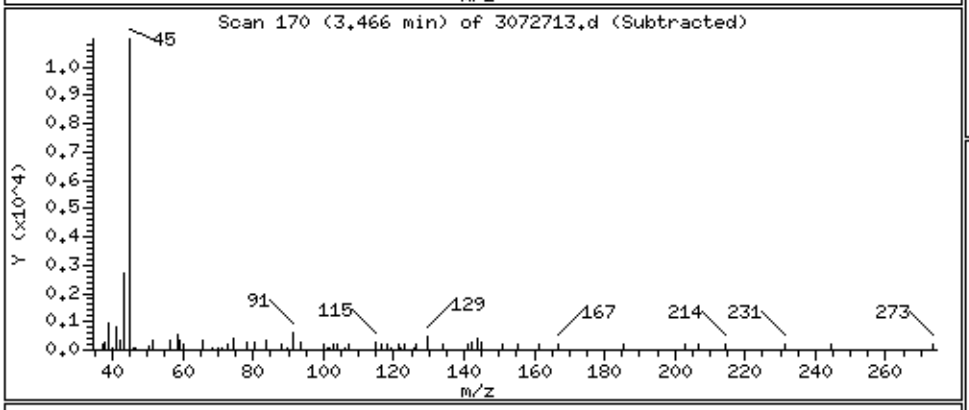
Column diameter: 0.25

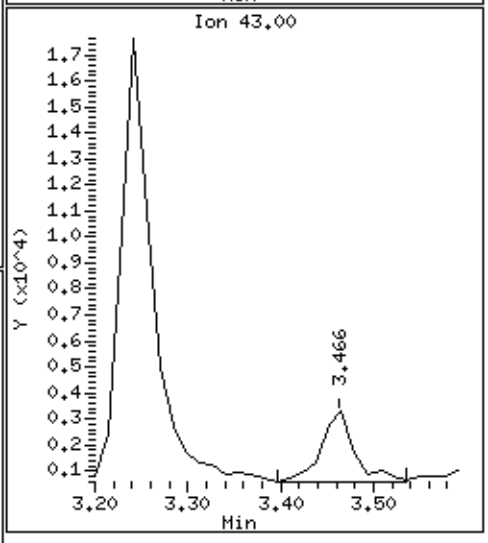
52 2-Propanol

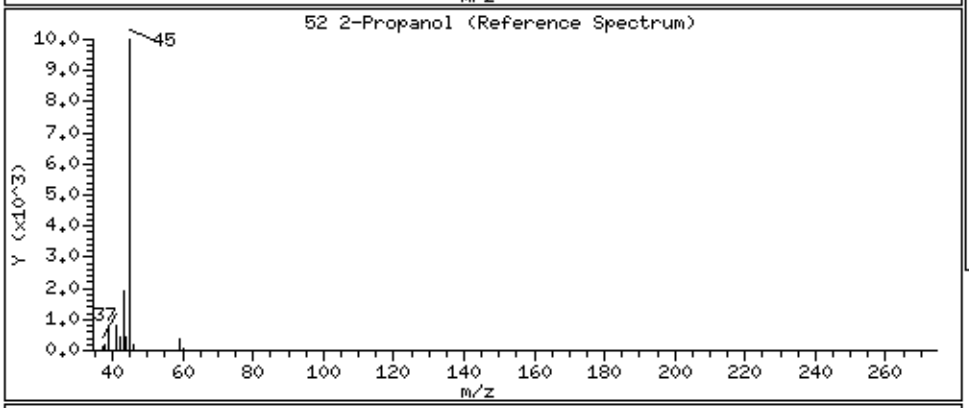
Concentration: 4.314 PPBV

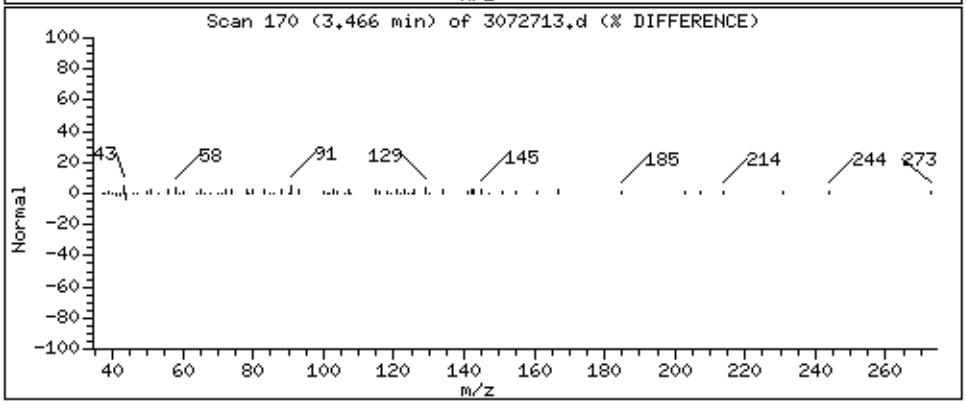












Data File: /chem/msd3.i/27JUL21.b/3072713.d

Date : 27-JUL-2021 18:29

Client ID:

Instrument: msd3.i

Sample Info: 200mL N2619

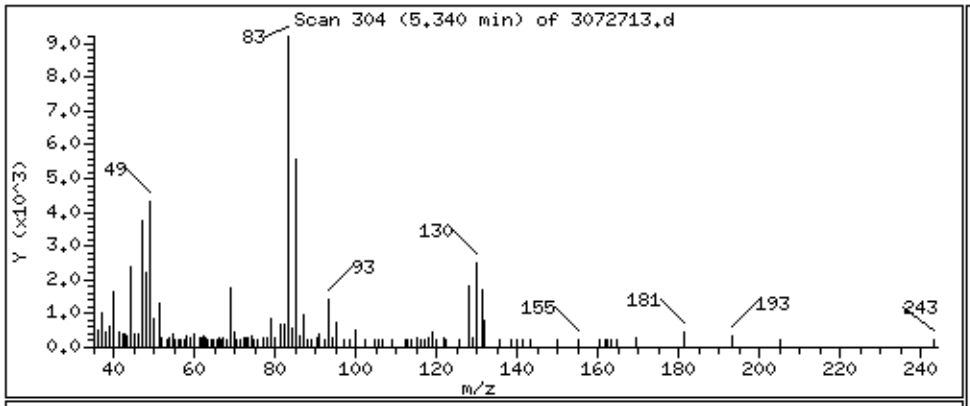
Operator: LD

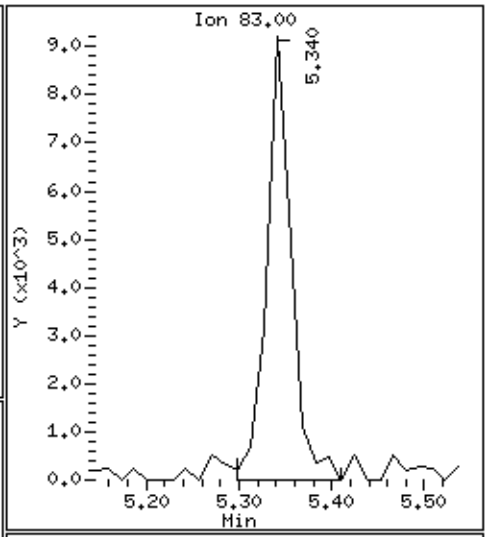
Column phase: RTX-624

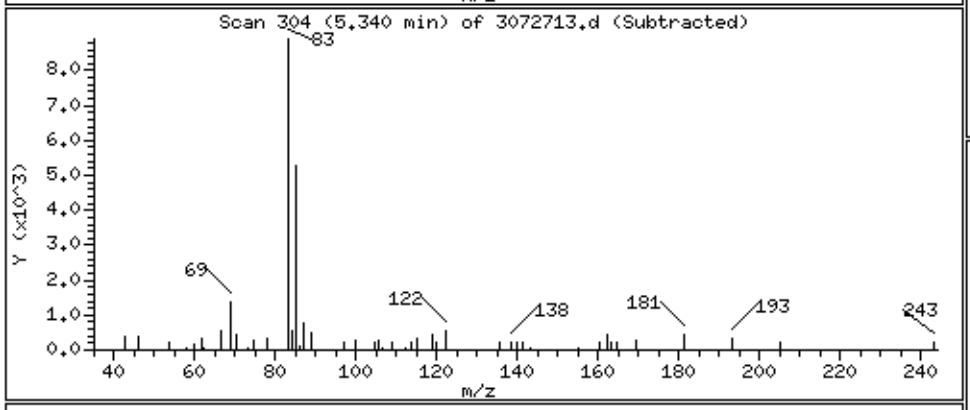
Column diameter: 0.25

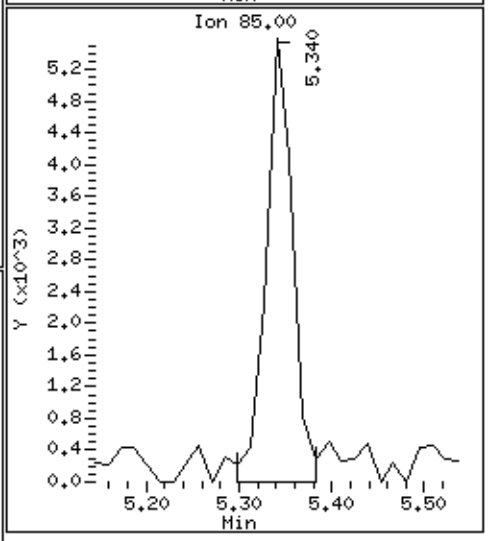
92 Chloroform

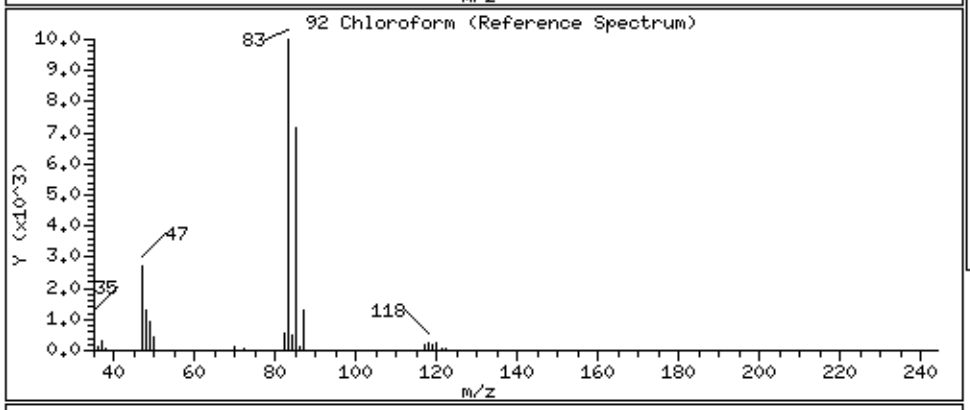
Concentration: 2.391 PPBV

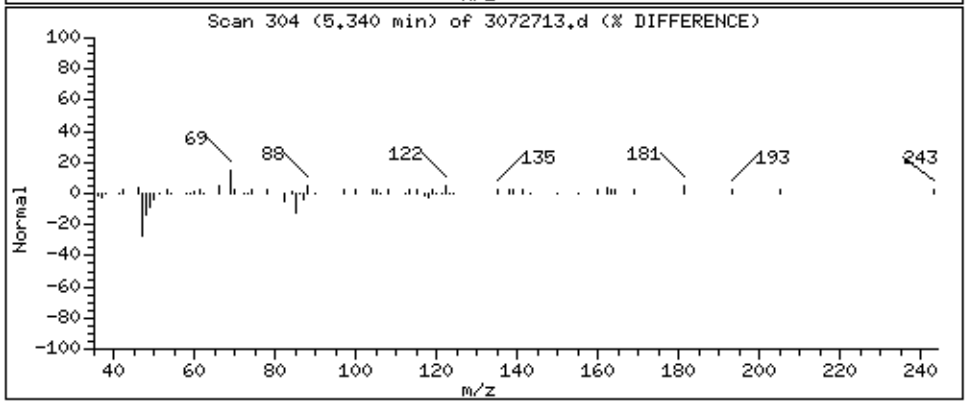












Data File: /chem/msd3.i/27JUL21.b/3072713.d

Date : 27-JUL-2021 18:29

Client ID:

Instrument: msd3.i

Sample Info: 200mL N2619

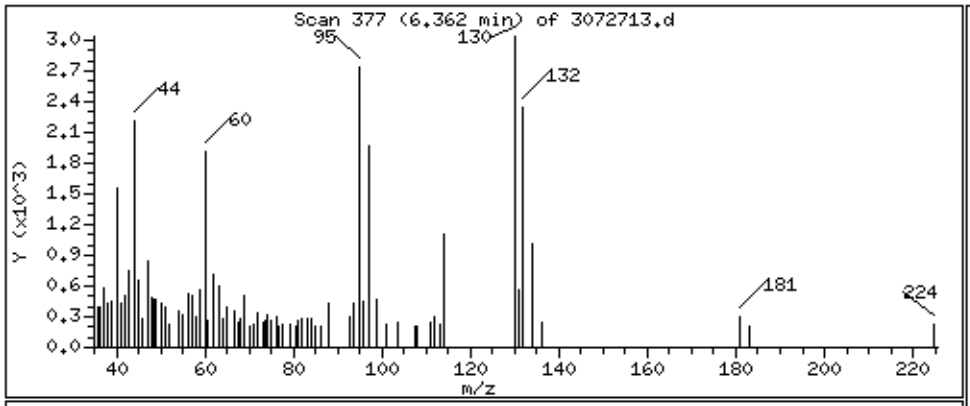
Operator: LD

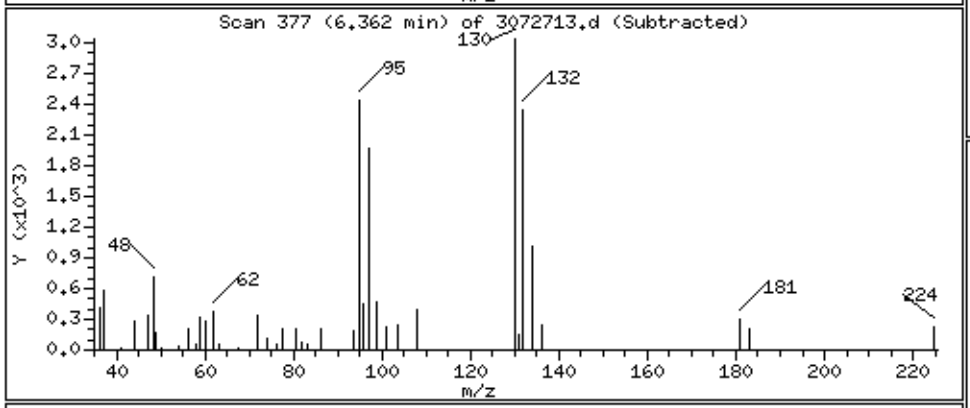
Column phase: RTX-624

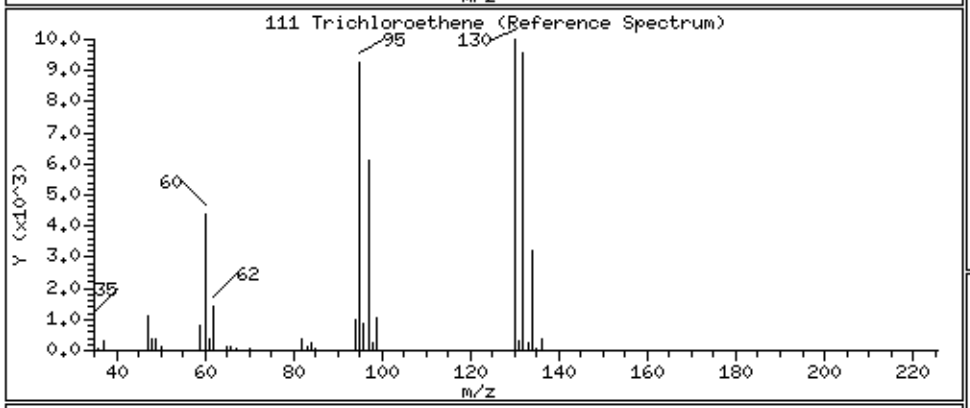
Column diameter: 0.25

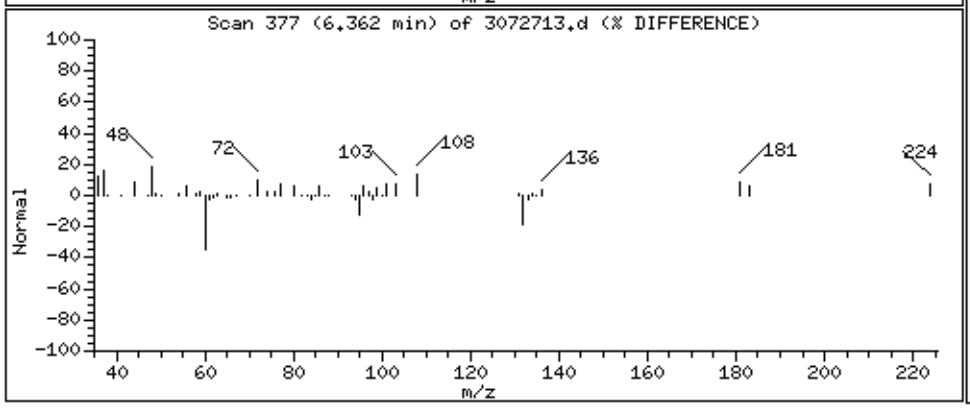
111 Trichloroethene

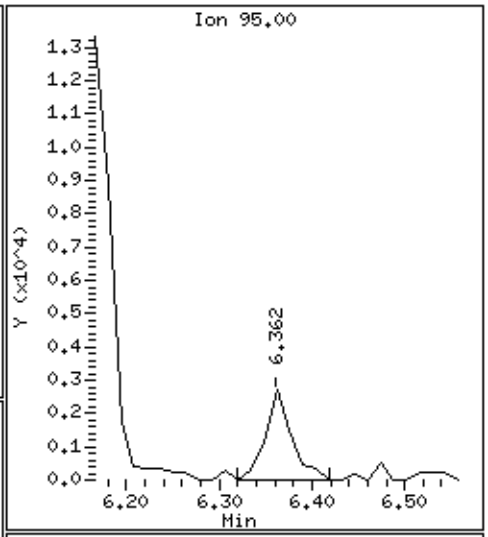
Concentration: 1.247 PPBV

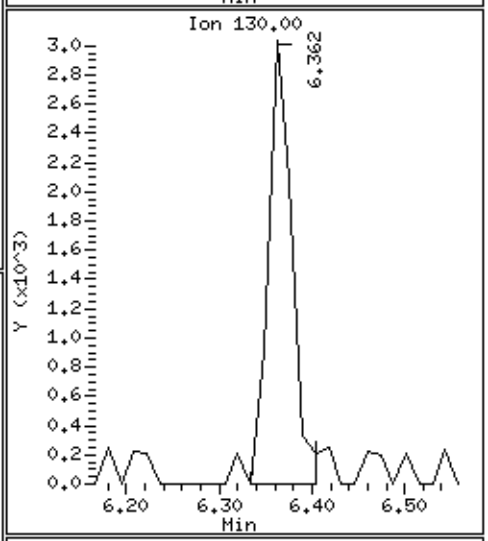


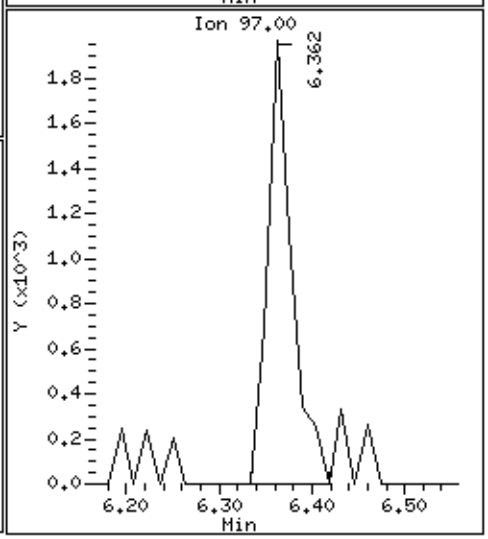












Data File: /chem/msd3.i/27JUL21.b/3072713.d

Date : 27-JUL-2021 18:29

Client ID:

Instrument: msd3.i

Sample Info: 200mL N2619

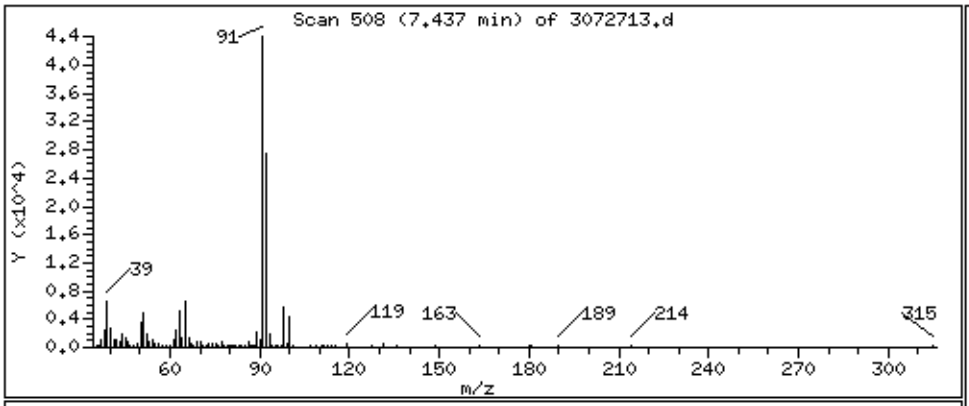
Operator: LD

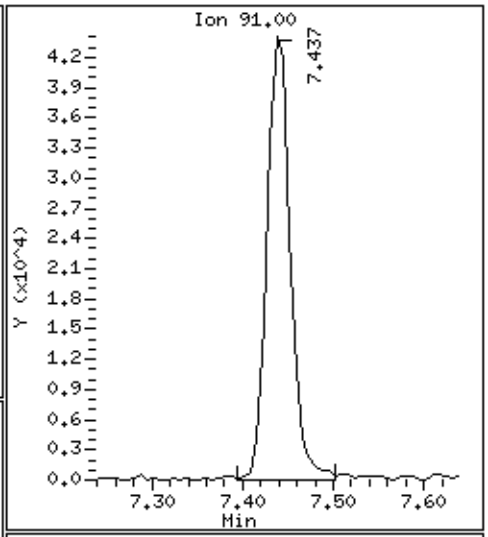
Column phase: RTX-624

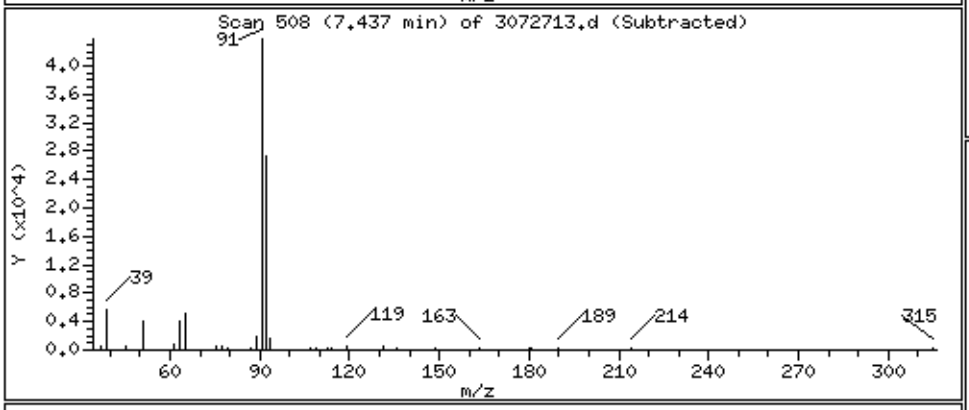
Column diameter: 0.25

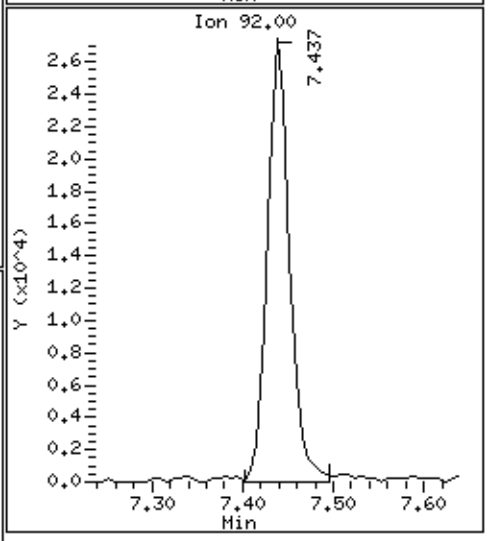
137 Toluene

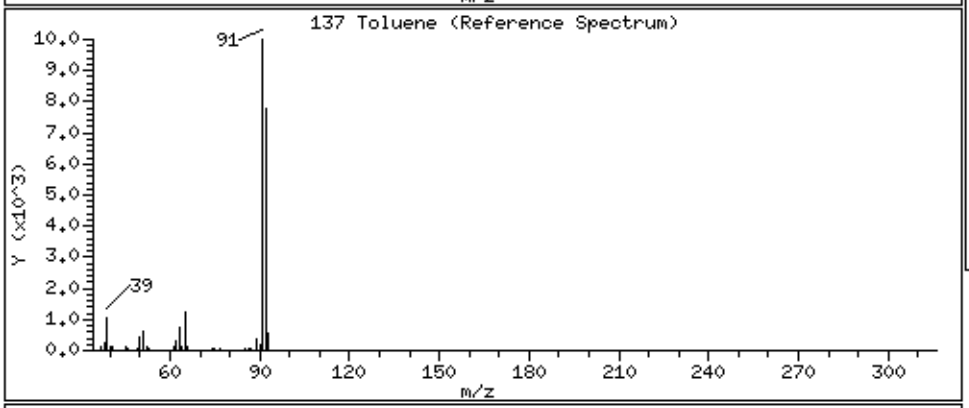
Concentration: 6.866 PPBV

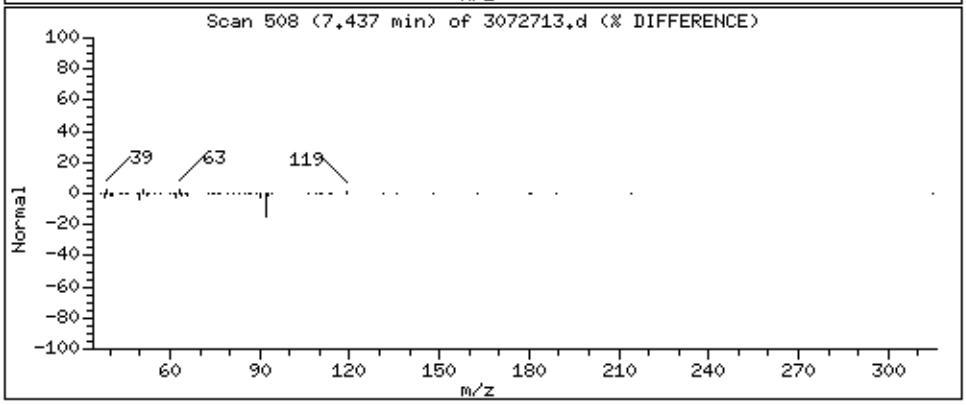












Data File: /chem/msd3.i/27JUL21.b/3072713.d

Date : 27-JUL-2021 18:29

Client ID:

Instrument: msd3.i

Sample Info: 200mL N2619

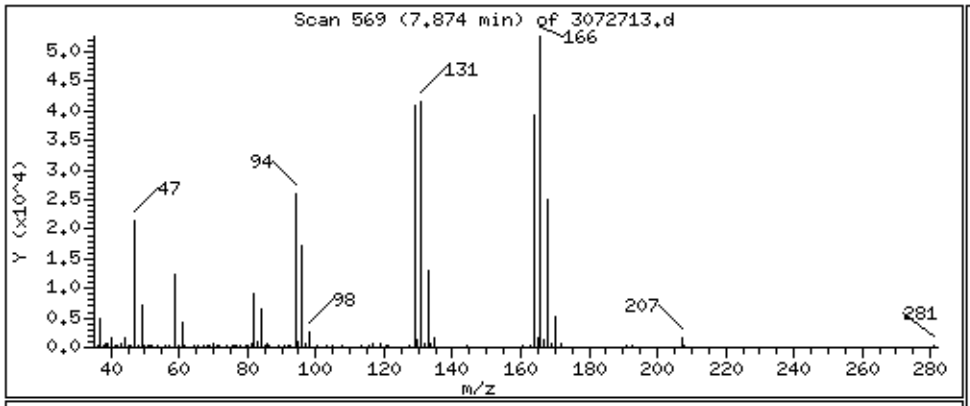
Operator: LD

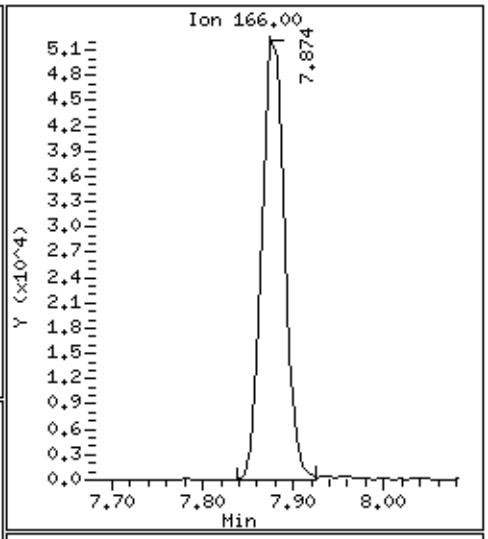
Column phase: RTX-624

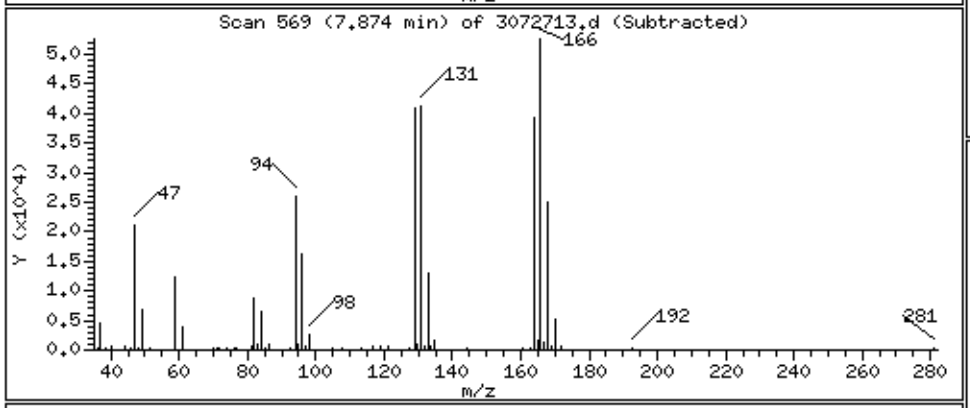
Column diameter: 0.25

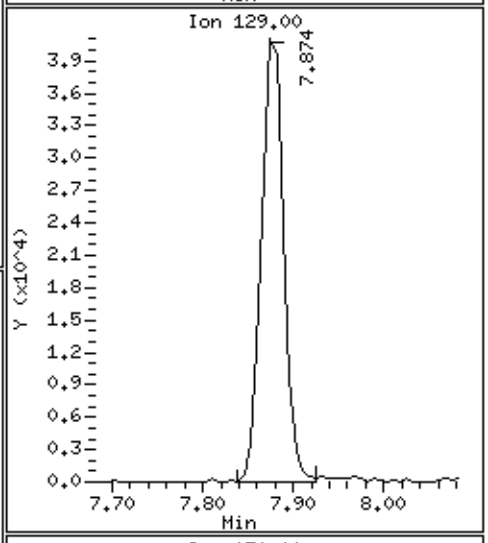
142 Tetrachloroethene

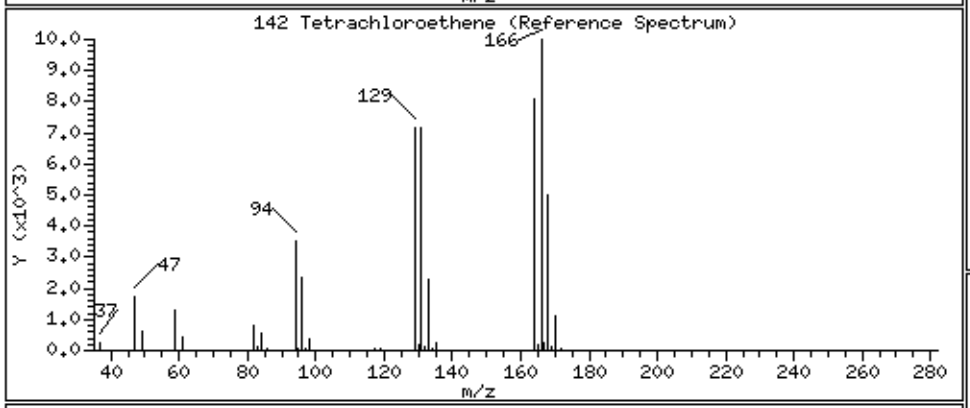
Concentration: 16.753 PPBV

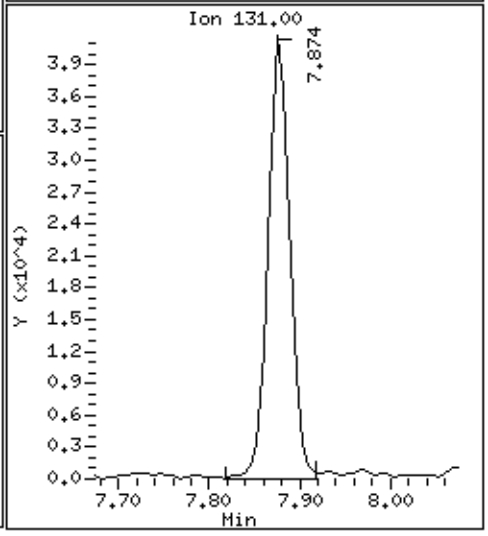


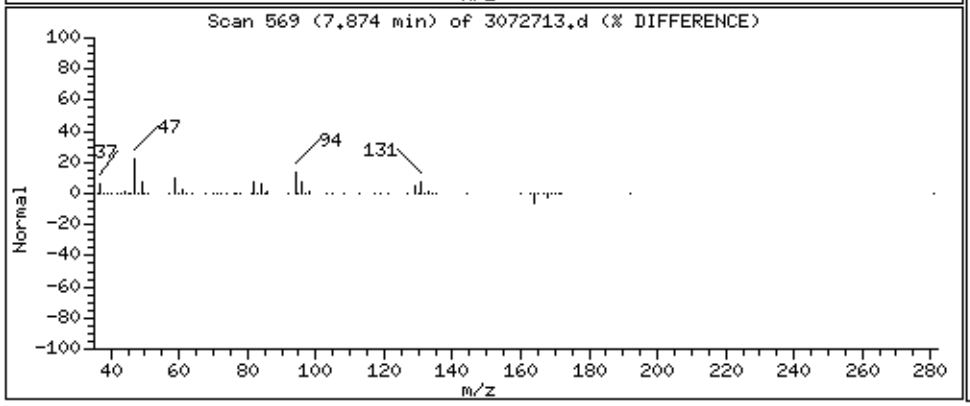












Data File: /chem/msd3.i/27JUL21.b/3072713.d

Date : 27-JUL-2021 18:29

Client ID:

Instrument: msd3.i

Sample Info: 200mL N2619

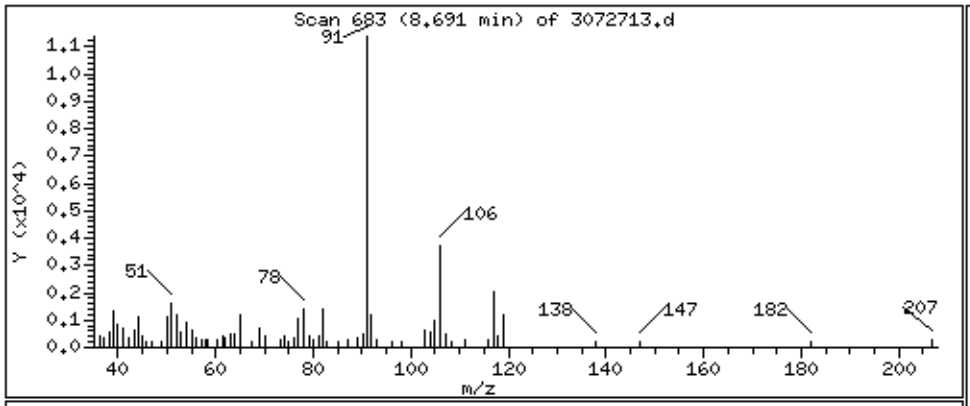
Operator: LD

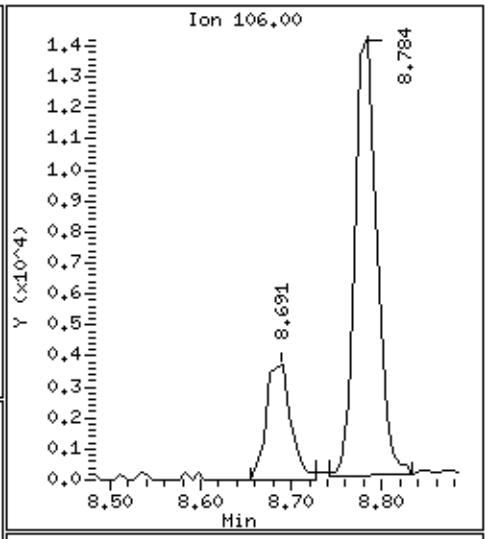
Column phase: RTX-624

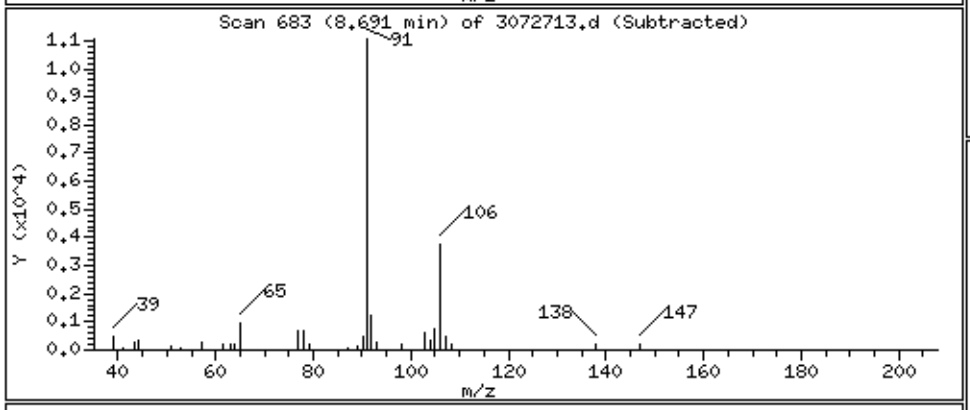
Column diameter: 0.25

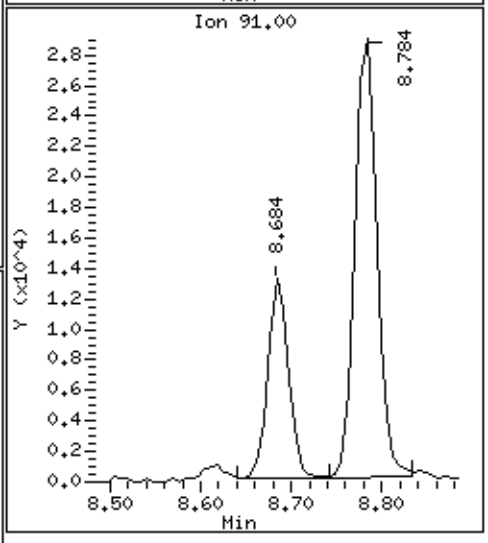
155 Ethyl Benzene

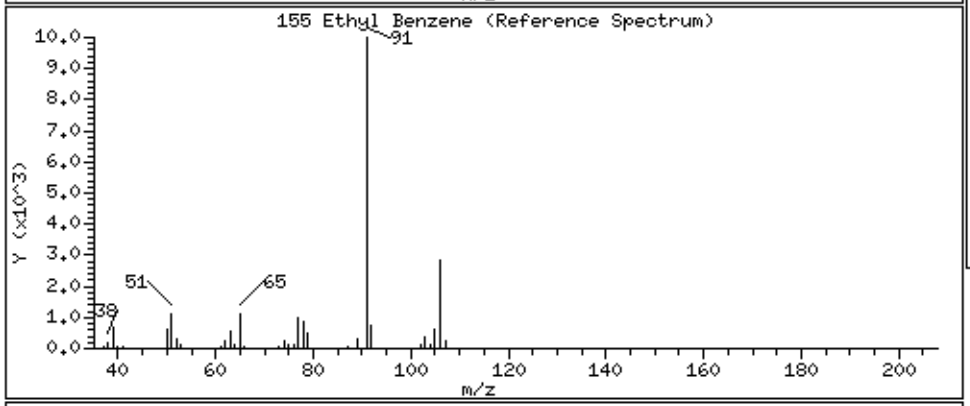
Concentration: 1.500 PPBV

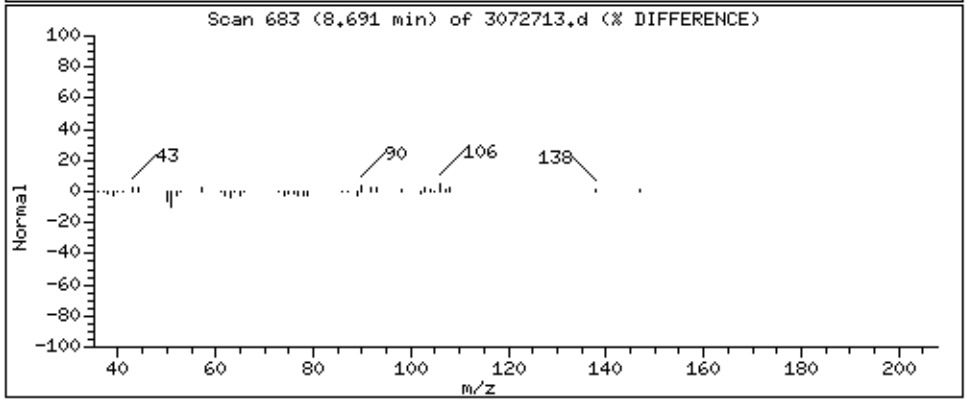












Data File: /chem/msd3.i/27JUL21.b/3072713.d

Date : 27-JUL-2021 18:29

Client ID:

Instrument: msd3.i

Sample Info: 200mL N2619

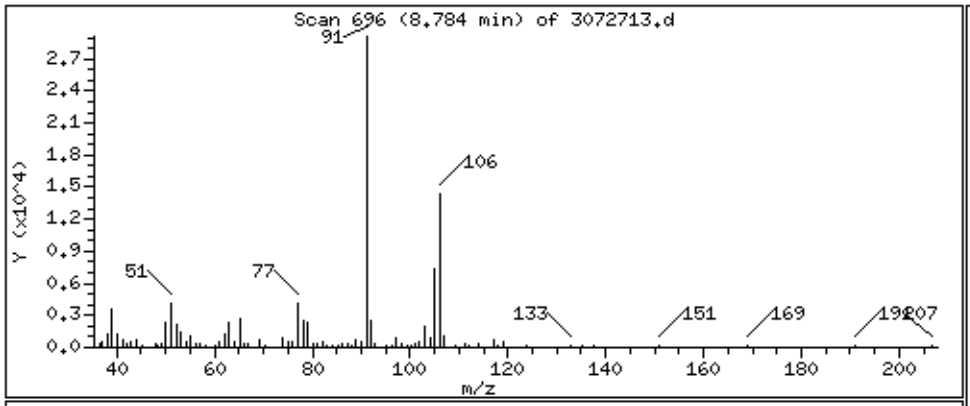
Operator: LD

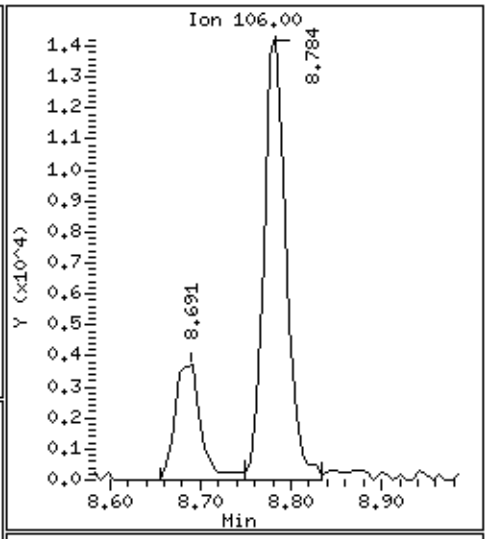
Column phase: RTX-624

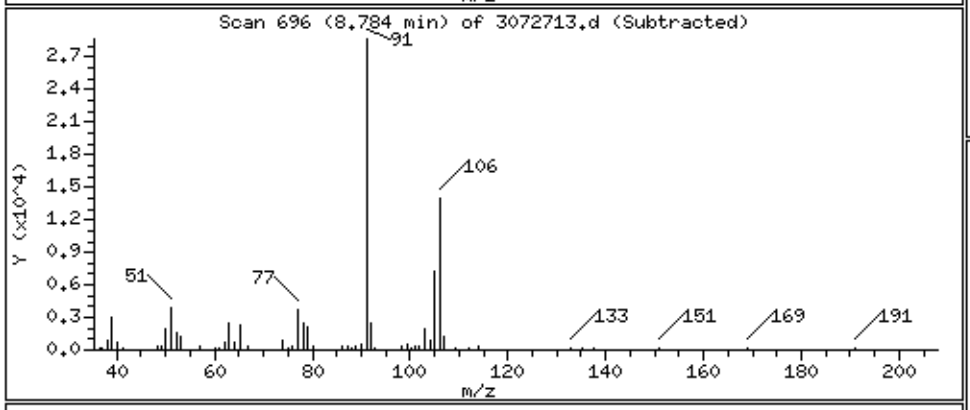
Column diameter: 0.25

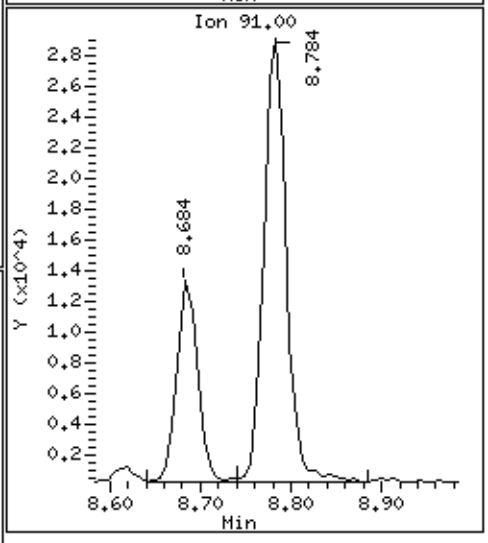
158 m,p-Xylene

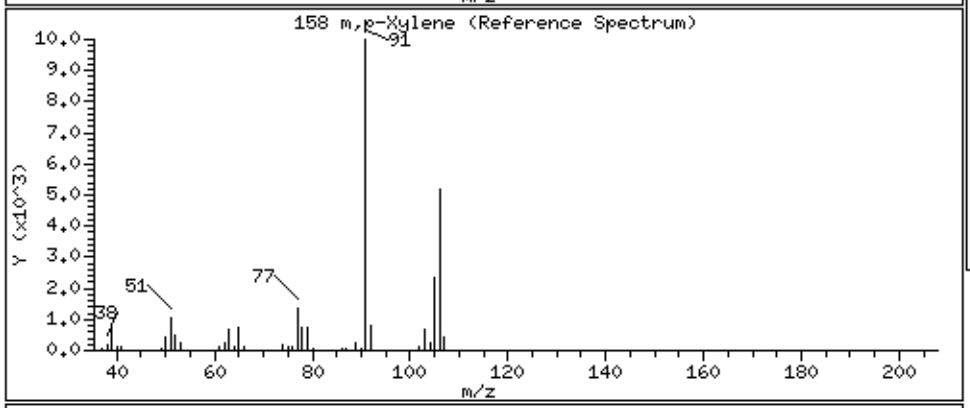
Concentration: 4.158 PPBV

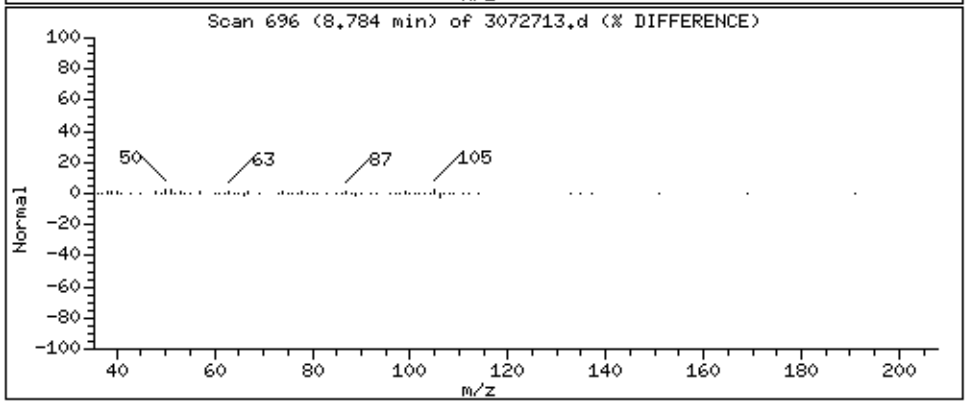












Data File: /chem/msd3.i/27JUL21.b/3072713.d

Date : 27-JUL-2021 18:29

Client ID:

Instrument: msd3.i

Sample Info: 200mL N2619

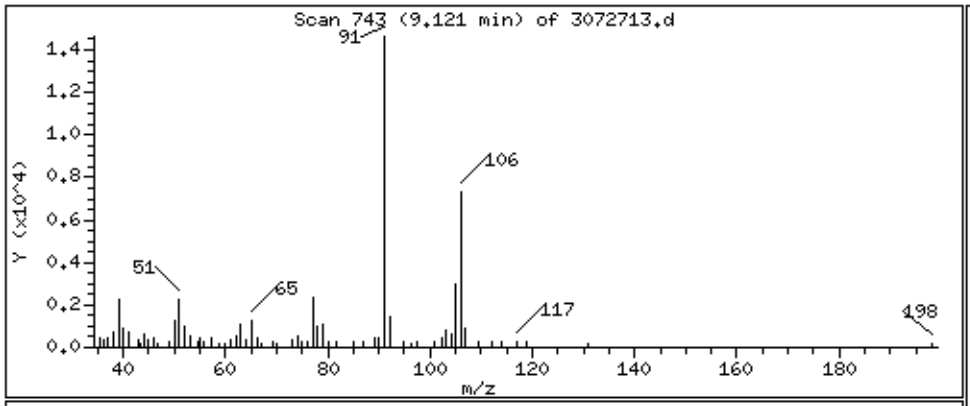
Operator: LD

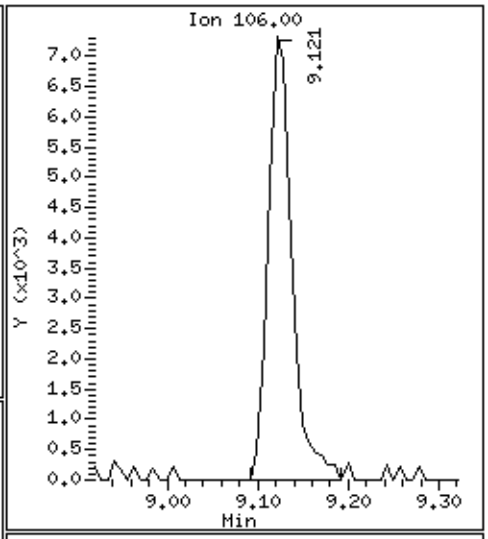
Column phase: RTX-624

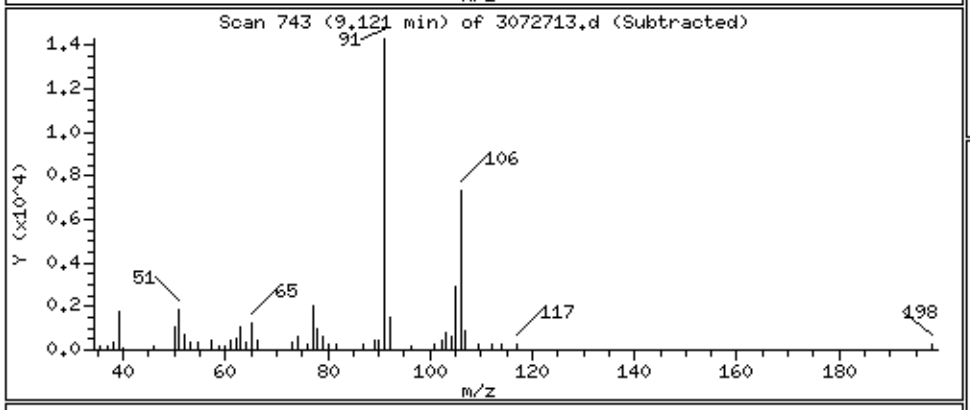
Column diameter: 0.25

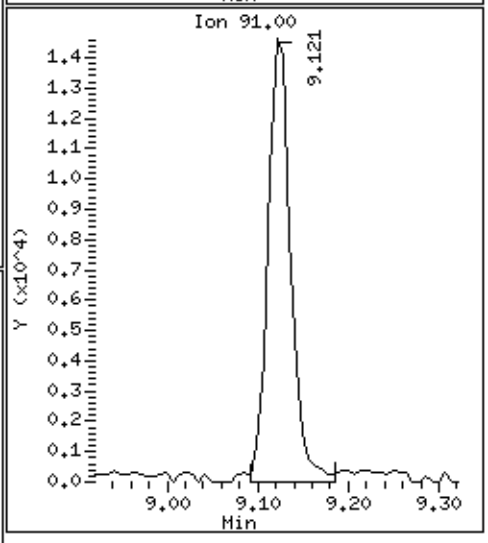
164 o-Xylene

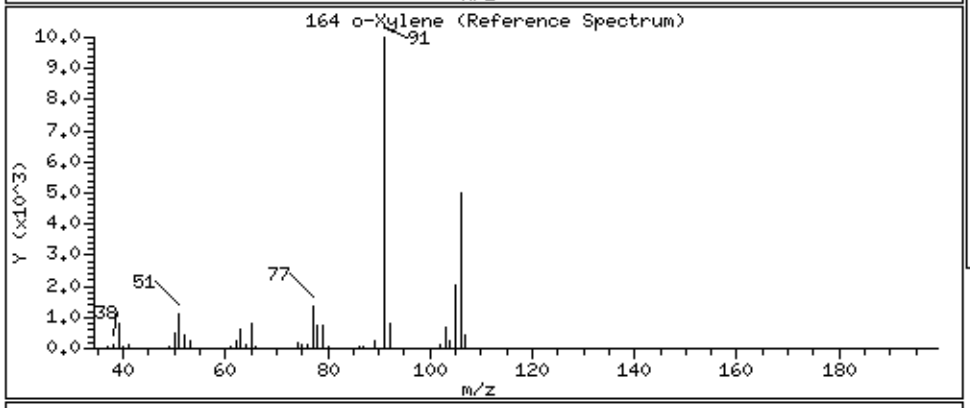
Concentration: 2.400 PPBV

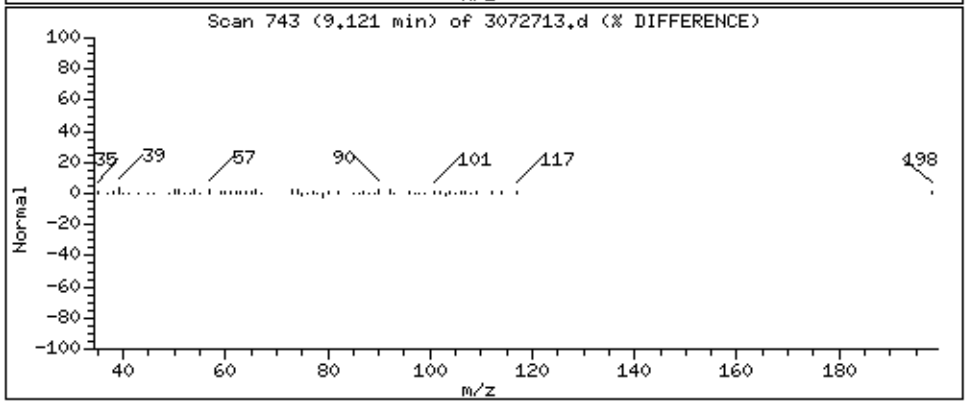












Data File: /chem/msd3.i/27JUL21.b/3072713.d

Date : 27-JUL-2021 18:29

Client ID:

Instrument: msd3.i

Sample Info: 200mL N2619

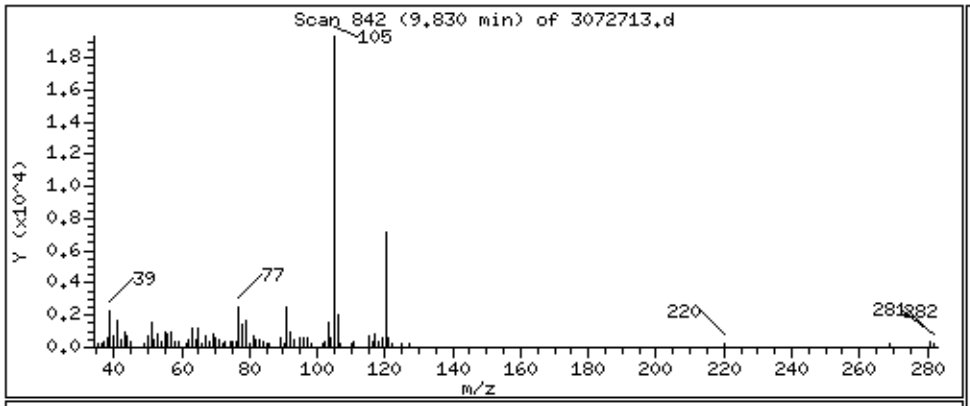
Operator: LD

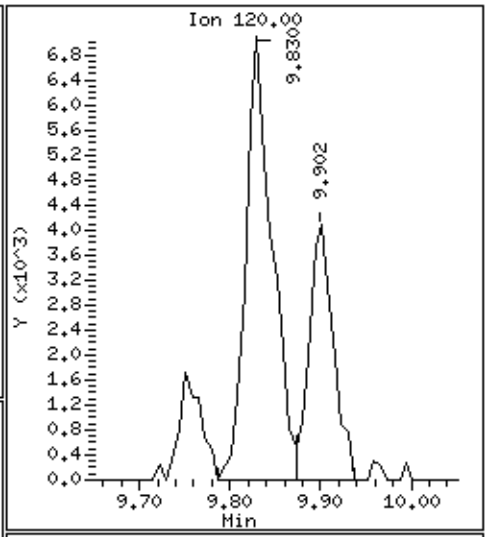
Column phase: RTX-624

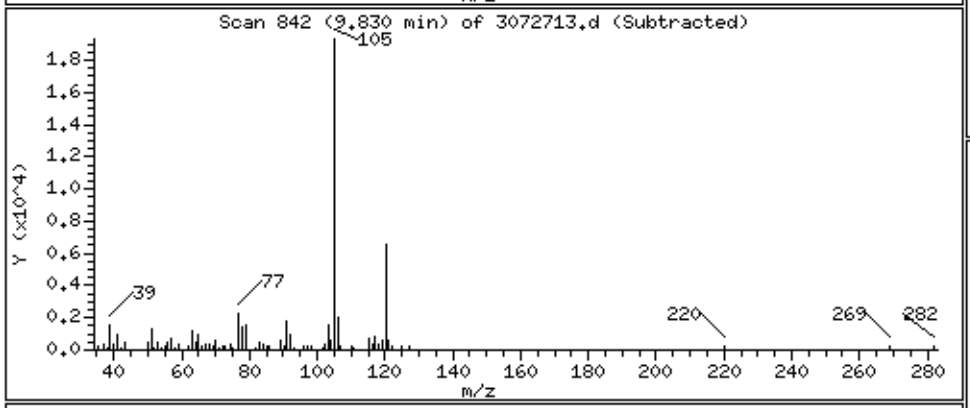
Column diameter: 0.25

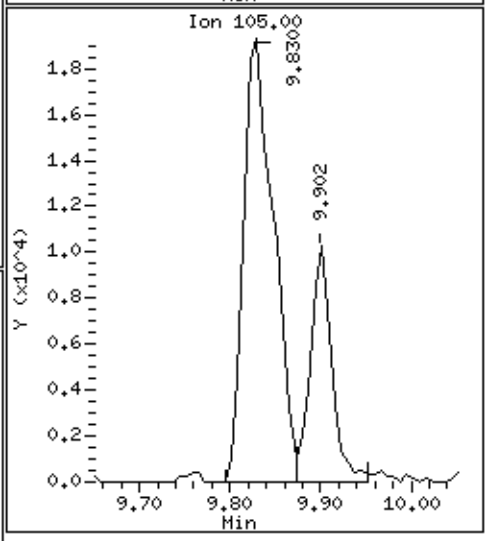
183 4-Ethyltoluene

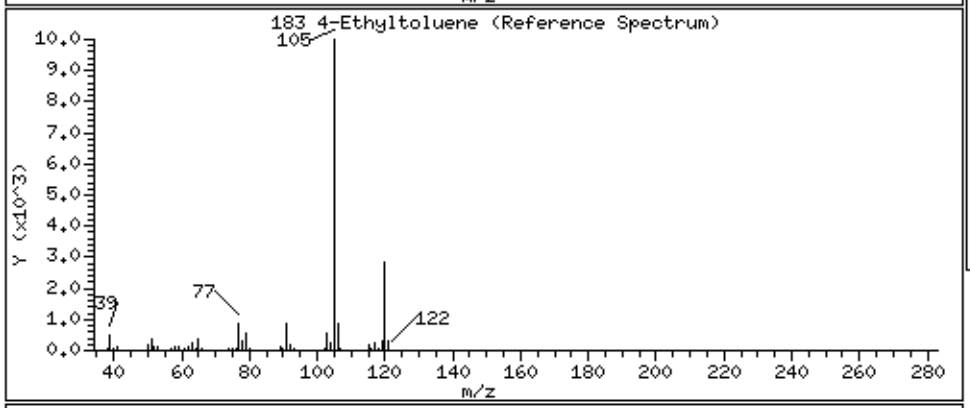
Concentration: 2.669 PPBV

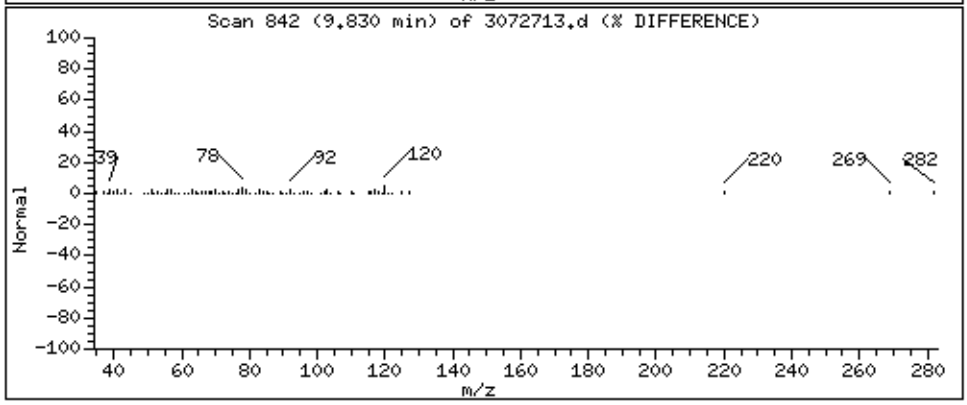












Data File: /chem/msd3.i/27JUL21.b/3072713.d

Date : 27-JUL-2021 18:29

Client ID:

Instrument: msd3.i

Sample Info: 200mL N2619

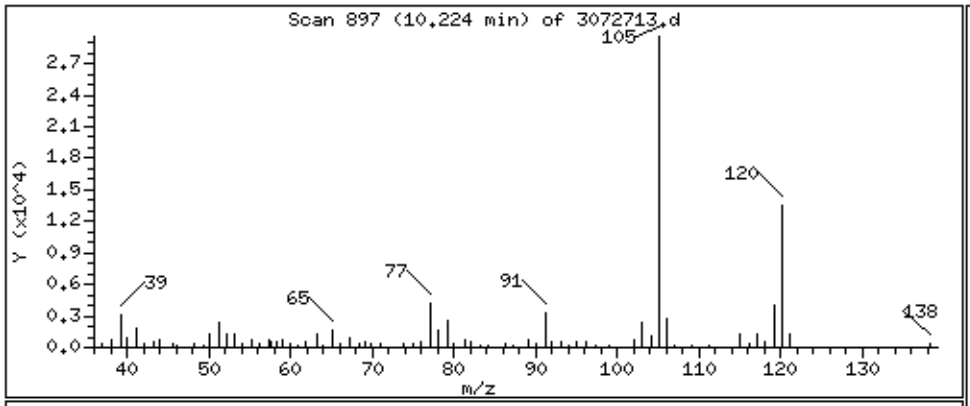
Operator: LD

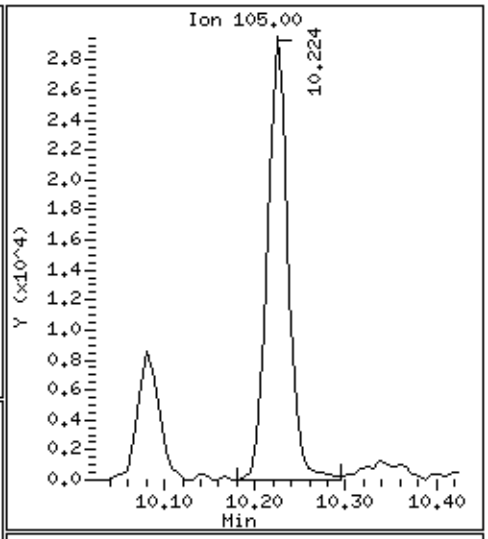
Column phase: RTX-624

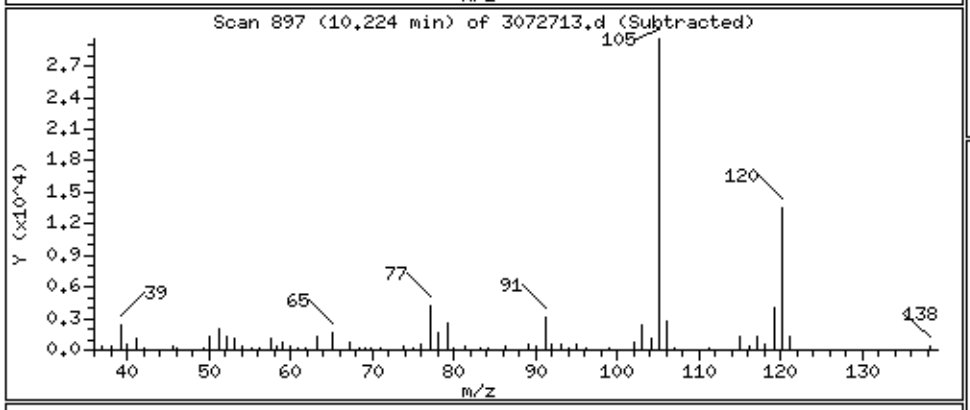
Column diameter: 0.25

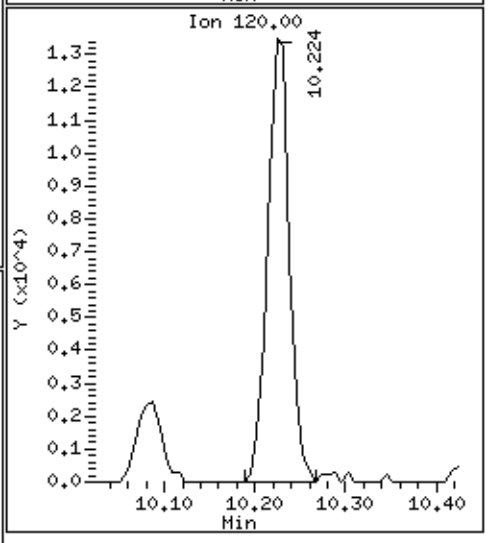
190 1,2,4-Trimethylbenzene

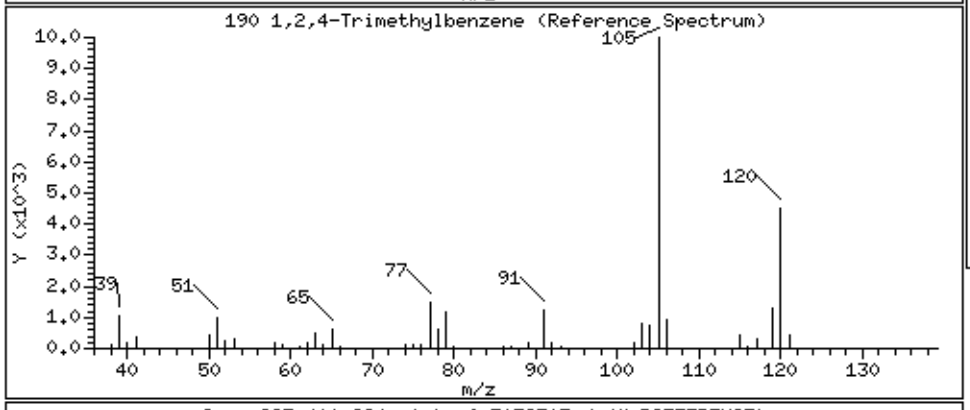
Concentration: 3.161 PPBV

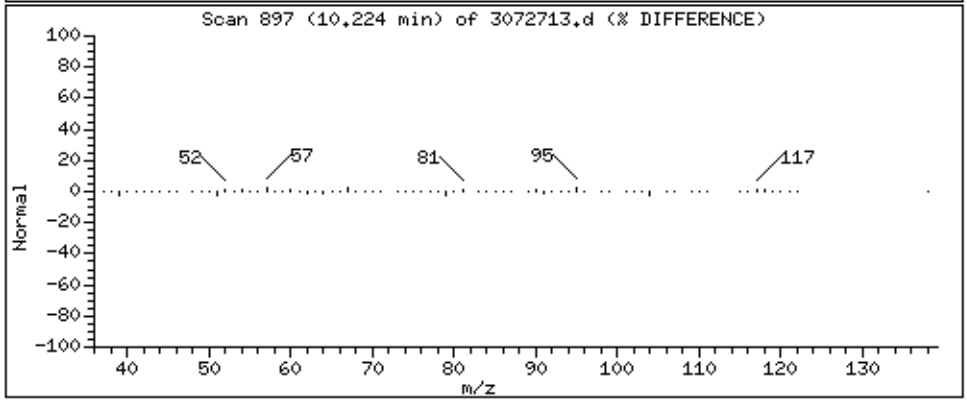












eurofins | Air Toxics

Client Sample ID: SG-VW22B-02

Lab ID#: 2107284-25A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3072714**	**Date of Collection: 7/14/21 1:10:00 PM**	
Dil. Factor:	**2.15**	**Date of Analysis: 7/27/21 06:58 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1,2-Tetrachloroethane	4.3	Not Detected	30	Not Detected
1,1,1-Trichloroethane	1.1	Not Detected	5.9	Not Detected
1,1,2,2-Tetrachloroethane	1.1	Not Detected	7.4	Not Detected
1,1,2-Trichloroethane	1.1	Not Detected	5.9	Not Detected
1,1-Dichloroethane	1.1	Not Detected	4.4	Not Detected
1,1-Dichloroethene	1.1	Not Detected	4.3	Not Detected
1,1-Difluoroethane	4.3	18	12	48
1,2,3-Trichloropropane	4.3	Not Detected	26	Not Detected
1,2,4-Trichlorobenzene	4.3	Not Detected	32	Not Detected
1,2,4-Trimethylbenzene	1.1	Not Detected	5.3	Not Detected
1,2-Dibromo-3-chloropropane	4.3	Not Detected	42	Not Detected
1,2-Dibromoethane (EDB)	1.1	Not Detected	8.3	Not Detected
1,2-Dichlorobenzene	1.1	Not Detected	6.5	Not Detected
1,2-Dichloroethane	1.1	Not Detected	4.4	Not Detected
1,2-Dichloropropane	1.1	Not Detected	5.0	Not Detected
1,3,5-Trimethylbenzene	1.1	Not Detected	5.3	Not Detected
1,3-Butadiene	1.1	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	1.1	Not Detected	6.5	Not Detected
1,4-Dichlorobenzene	1.1	Not Detected	6.5	Not Detected
1,4-Dioxane	4.3	Not Detected	15	Not Detected
2,2,4-Trimethylpentane	1.1	Not Detected	5.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.3	Not Detected	13	Not Detected
2-Hexanone	4.3	Not Detected	18	Not Detected
2-Propanol	4.3	4.9	10	12
3-Chloropropene	4.3	Not Detected	13	Not Detected
4-Ethyltoluene	1.1	Not Detected	5.3	Not Detected
4-Methyl-2-pentanone	1.1	Not Detected	4.4	Not Detected
Acetone	11	19	26	46
Acrolein	4.3	Not Detected	9.8	Not Detected
Acrylonitrile	4.3	Not Detected	9.3	Not Detected
alpha-Chlorotoluene	1.1	Not Detected	5.6	Not Detected
Benzene	1.1	Not Detected	3.4	Not Detected
Bromodichloromethane	1.1	Not Detected	7.2	Not Detected
Bromoform	1.1	Not Detected	11	Not Detected
Bromomethane	11	Not Detected	42	Not Detected
Carbon Disulfide	4.3	Not Detected	13	Not Detected
Carbon Tetrachloride	1.1	Not Detected	6.8	Not Detected
Chlorobenzene	1.1	Not Detected	4.9	Not Detected
Chloroethane	4.3	Not Detected	11	Not Detected
Chloroform	1.1	5.2	5.2	26
Chloromethane	11	Not Detected	22	Not Detected
cis-1,2-Dichloroethene	1.1	Not Detected	4.3	Not Detected

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Client Sample ID: SG-VW22B-02

Lab ID#: 2107284-25A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3072714**	**Date of Collection:**	**7/14/21 1:10:00 PM**
Dil. Factor:	**2.15**	**Date of Analysis:**	**7/27/21 06:58 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,3-Dichloropropene	1.1	Not Detected	4.9	Not Detected
Cumene	1.1	Not Detected	5.3	Not Detected
Cyclohexane	1.1	Not Detected	3.7	Not Detected
Dibromochloromethane	1.1	Not Detected	9.2	Not Detected
Dibromomethane	4.3	Not Detected	30	Not Detected
Ethanol	11	21	20	39
Ethyl Acetate	4.3	Not Detected	15	Not Detected
Ethyl Benzene	1.1	Not Detected	4.7	Not Detected
Ethyl-tert-butyl ether	4.3	Not Detected	18	Not Detected
Freon 11	1.1	Not Detected	6.0	Not Detected
Freon 12	1.1	Not Detected	5.3	Not Detected
Freon 113	1.1	Not Detected	8.2	Not Detected
Freon 114	1.1	Not Detected	7.5	Not Detected
Freon 134a	4.3	Not Detected	18	Not Detected
Heptane	1.1	Not Detected	4.4	Not Detected
Hexachlorobutadiene	4.3	Not Detected	46	Not Detected
Hexachloroethane	4.3	Not Detected	42	Not Detected
Hexane	1.1	Not Detected	3.8	Not Detected
Iodomethane	11	Not Detected	62	Not Detected
Isopropyl ether	4.3	Not Detected	18	Not Detected
m,p-Xylene	1.1	Not Detected	4.7	Not Detected
Methyl tert-butyl ether	4.3	Not Detected	16	Not Detected
Methylene Chloride	11	Not Detected	37	Not Detected
Naphthalene	2.2	Not Detected	11	Not Detected
o-Xylene	1.1	Not Detected	4.7	Not Detected
Propylbenzene	1.1	Not Detected	5.3	Not Detected
Propylene	4.3	Not Detected	7.4	Not Detected
Styrene	1.1	Not Detected	4.6	Not Detected
tert-Amyl methyl ether	4.3	Not Detected	18	Not Detected
tert-Butyl alcohol	4.3	Not Detected	13	Not Detected
Tetrachloroethene	1.1	22	7.3	150
Tetrahydrofuran	1.1	Not Detected	3.2	Not Detected
Toluene	1.1	6.1	4.0	23
TPH ref. to Gasoline (MW=100)	110	Not Detected	440	Not Detected
trans-1,2-Dichloroethene	1.1	Not Detected	4.3	Not Detected
trans-1,3-Dichloropropene	1.1	Not Detected	4.9	Not Detected
Trichloroethene	1.1	2.1	5.8	11
Vinyl Acetate	4.3	Not Detected	15	Not Detected
Vinyl Bromide	4.3	Not Detected	19	Not Detected
Vinyl Chloride	1.1	Not Detected	2.7	Not Detected

Container Type: 1 Liter Summa Canister

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Client Sample ID: SG-VW22B-02

Lab ID#: 2107284-25A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3072714**	**Date of Collection: 7/14/21 1:10:00 PM**	
Dil. Factor:	**2.15**	**Date of Analysis: 7/27/21 06:58 PM**	

Surrogates	%Recovery	Method Limits
Toluene-d8	96	70-130
1,2-Dichloroethane-d4	98	70-130
4-Bromofluorobenzene	95	70-130

US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msd3.i/27JUL21.b/3072714.d
Lab Smp Id: 2107284-25A
Inj Date : 27-JUL-2021 18:58
Operator : LD Inst ID: msd3.i
Smp Info : 200mL O0732
Misc Info : 6.7 Hg->9.9 psi
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msd3.i/27JUL21.b/321q0622a.m
Meth Date : 27-Jul-2021 15:31 lk8g Quant Type: ISTD
Cal Date : 23-JUN-2021 00:09 Cal File: 3062223.d
Als bottle: 5
Dil Factor: 2.15000
Integrator: HP RTE Compound Sublist: AEC25677.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE		(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 90 Bromochloromethane						CAS #: 74-97-5		
5.284	5.284 (1.000)	130	269144	25.0000			80.00- 120.00	100.00
5.284	5.284 (1.000)	128	211483				48.46- 108.46	78.58
5.270	5.270 (1.000)	49	389868				120.39- 180.39	144.85
* 108 1,4-Difluorobenzene						CAS #: 540-36-3		
6.166	6.180 (1.000)	114	896639	25.0000			80.00- 120.00	100.00
6.166	6.180 (1.000)	88	132314				0.00- 45.52	14.76
* 153 Chlorobenzene-d5						CAS #: 3114-55-4		
8.612	8.612 (1.000)	117	791630	25.0000			80.00- 120.00	100.00
8.612	8.612 (1.000)	82	421603				25.46- 85.46	53.26
$ 104 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
5.816	5.816 (1.101)	65	363261	24.5260	24.526		80.00- 120.00	100.00
5.816	5.816 (1.101)	67	175205				21.66- 81.66	48.23
$ 134 Toluene-d8						CAS #: 2037-26-5		
7.387	7.387 (1.198)	98	882395	23.8930	23.893		80.00- 120.00	100.00
7.387	7.387 (1.198)	70	100509				0.00- 41.47	11.39

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 134 Toluene-d8 (continued)							
7.387	7.387 (1.198)	100	576265			36.47- 96.47	65.31
$ 170 4-Bromofluorobenzene					CAS #: 460-00-4		
9.601	9.601 (1.115)	174	496803	23.7262	23.726	80.00- 120.00	100.00
9.601	9.601 (1.115)	95	562385			93.06- 153.06	113.20
9.601	9.601 (1.115)	176	458457			62.87- 122.87	92.28
7 1,1-Difluoroethane					CAS #: 75-37-6		
1.451	1.437 (0.275)	65	35222	8.31144	17.870	80.00- 120.00	100.00
1.493	1.479 (0.282)	51	1519651			321.86- 381.86	4314.46
1.493	1.451 (0.282)	47	51395			45.34- 105.34	145.92
39 Ethanol					CAS #: 64-17-5		
2.794	2.766 (0.529)	46	15438	9.61990	20.683	80.00- 120.00	100.00
2.794	2.780 (0.529)	45	38795			523.01- 583.01	251.29
47 Acetone					CAS #: 67-64-1		
3.242	3.214 (0.613)	58	40633	9.00360	19.358	80.00- 120.00	100.00
3.242	3.214 (0.613)	43	136861			299.66- 359.66	336.82
52 2-Propanol					CAS #: 67-63-0		
3.438	3.409 (0.650)	45	36999	2.27962	4.901	80.00- 120.00	100.00
3.438	3.395 (0.650)	43	10128			0.00- 48.61	27.37
92 Chloroform					CAS #: 67-66-3		
5.340	5.340 (1.011)	83	41023	2.43105	5.227	80.00- 120.00	100.00
5.340	5.340 (1.011)	85	27093			34.71- 94.71	66.04
111 Trichloroethene					CAS #: 79-01-6		
6.362	6.362 (1.032)	95	9936	0.96796	2.081	80.00- 120.00	100.00
6.362	6.362 (1.032)	130	9096			74.96- 134.96	91.55
6.362	6.362 (1.032)	97	5847			34.80- 94.80	58.86
137 Toluene					CAS #: 108-88-3		
7.437	7.437 (1.206)	91	78366	2.85439	6.137	80.00- 120.00	100.00
7.437	7.437 (1.206)	92	43802			28.30- 88.30	55.89
142 Tetrachloroethene					CAS #: 127-18-4		
7.882	7.881 (0.915)	166	129257	10.4224	22.408	80.00- 120.00	100.00
7.874	7.881 (0.914)	129	100996			48.71- 108.71	78.14
7.874	7.874 (0.914)	131	94198			46.55- 106.55	72.88

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd3.i
Lab File ID: 3072714.d
Lab Smp Id: 2107284-25A
Analysis Type: VOA
Quant Type: ISTD
Operator: LD
Method File: /chem/msd3.i/27JUL21.b/321q0622a.m
Misc Info: 6.7 Hg->9.9 psi

Calibration Date: 27-JUL-2021
Calibration Time: 11:36
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	238986	143392	334580	269144	12.62
108 1,4-Difluorobenze	785289	471173	1099405	896639	14.18
153 Chlorobenzene-d5	683596	410158	957034	791630	15.80

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.28	4.95	5.61	5.28	0.00
108 1,4-Difluorobenze	6.18	5.85	6.51	6.17	-0.22
153 Chlorobenzene-d5	8.61	8.28	8.94	8.61	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 28-Jul-2021 15:37

US32TAR1

RECOVERY REPORT

Client Name: Client SDG: 27JUL21
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 2107284-25A
Level: LOW Operator: LD
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT20_new.spk Quant Type: ISTD
Sublist File: AEC25677.sub
Method File: /chem/msd3.i/27JUL21.b/321q0622a.m
Misc Info: 6.7 Hg->9.9 psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 104 1,2-Dichloroethan	25.000	24.526	98.10	70-130
$ 134 Toluene-d8	25.000	23.893	95.57	70-130
$ 170 4-Bromofluorobenz	25.000	23.726	94.90	70-130

Data File: /chem/msd3.i/27JUL21.b/3072714.d

Date : 27-JUL-2021 18:58

Client ID:

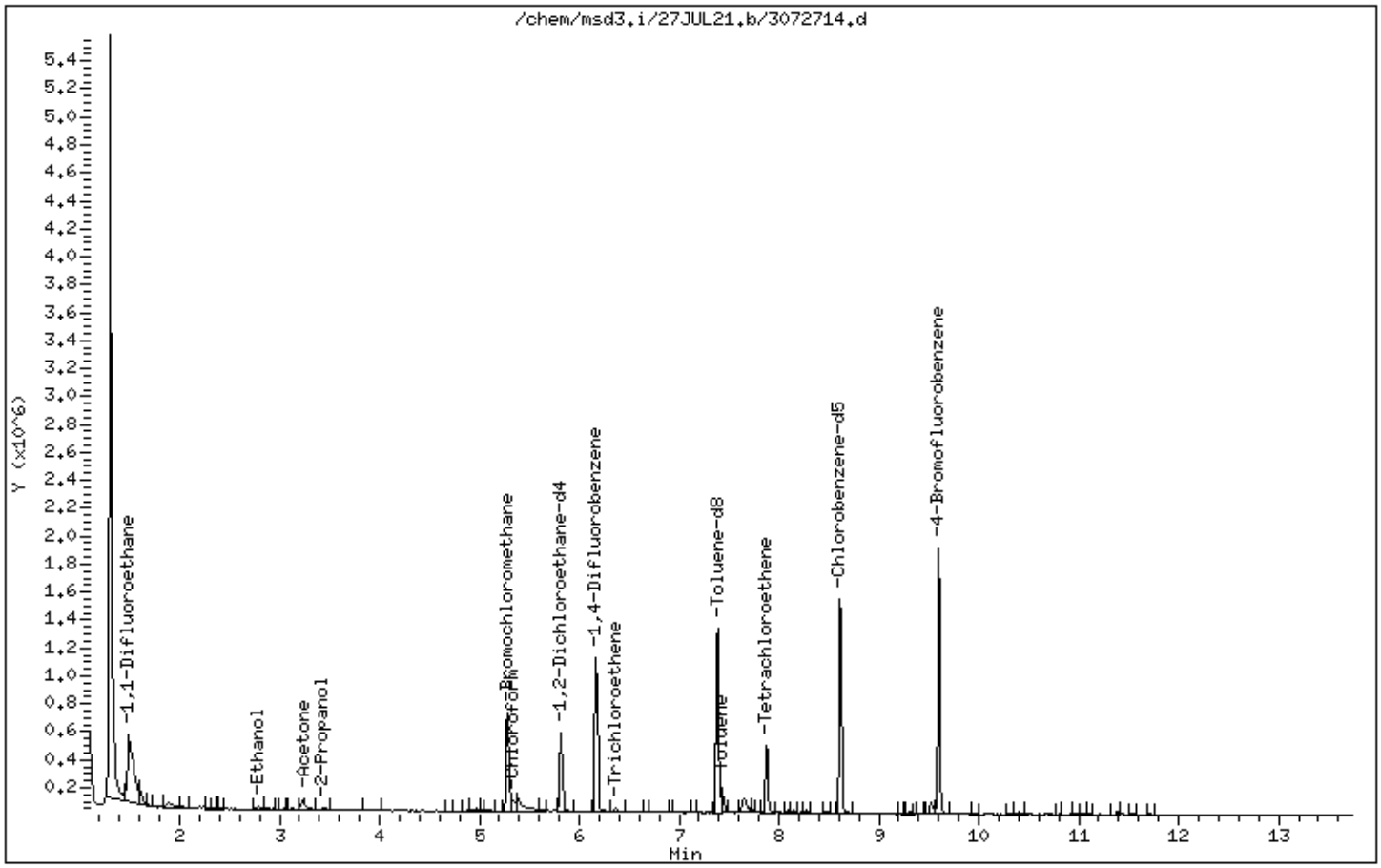
Instrument: msd3.i

Sample Info: 200mL 00732

Operator: LD

Column phase: RTX-624

Column diameter: 0.25



Data File: /chem/msd3.i/27JUL21.b/3072714.d

Date : 27-JUL-2021 18:58

Client ID:

Instrument: msd3.i

Sample Info: 200mL 00732

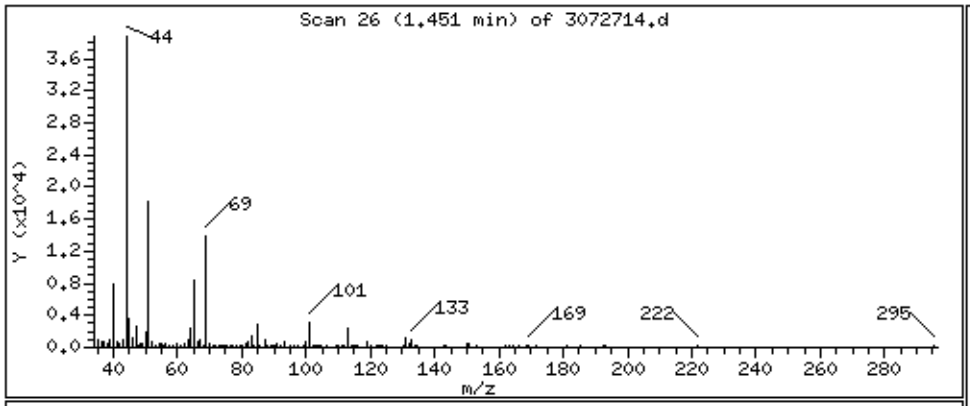
Operator: LD

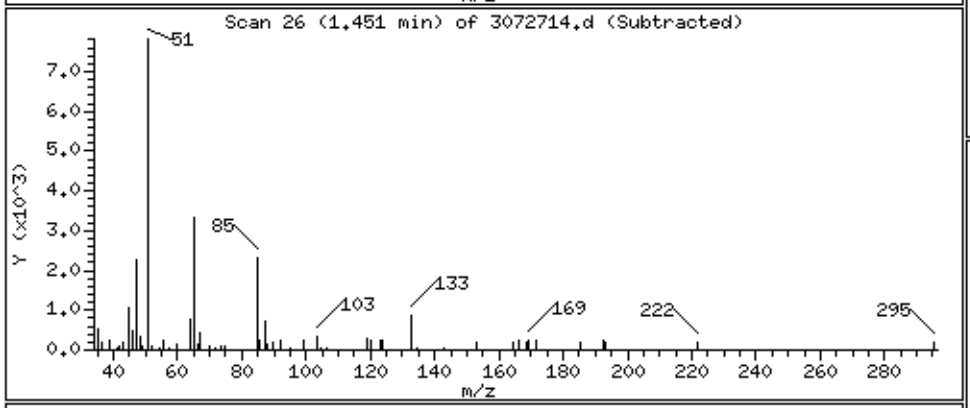
Column phase: RTX-624

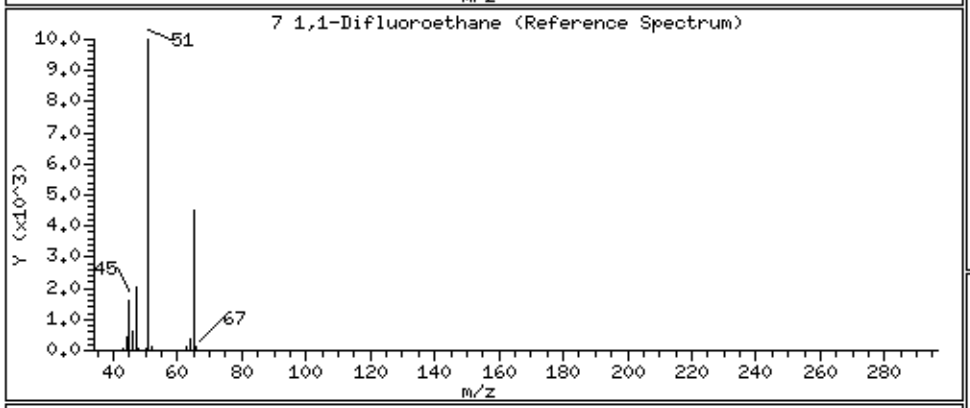
Column diameter: 0.25

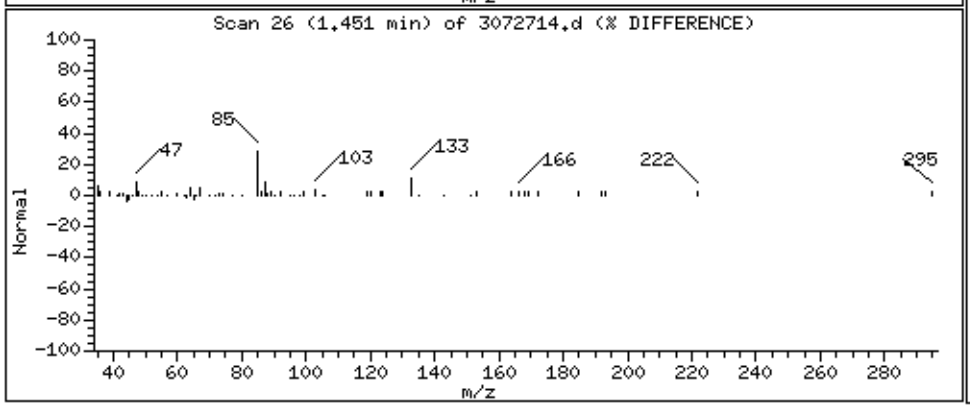
7 1,1-Difluoroethane

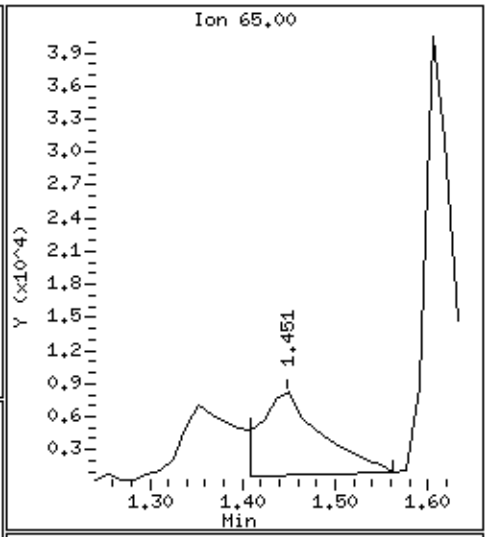
Concentration: 17.870 PPBV

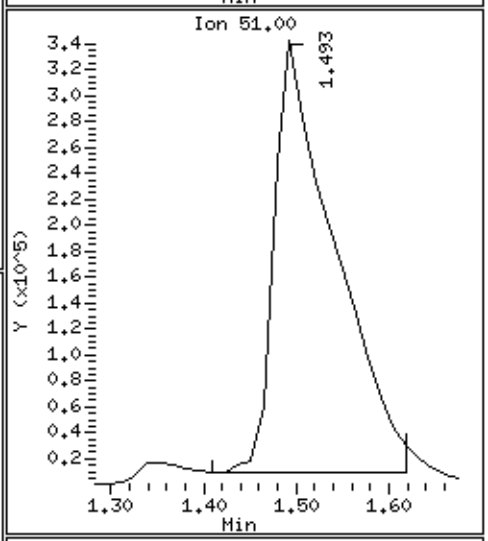


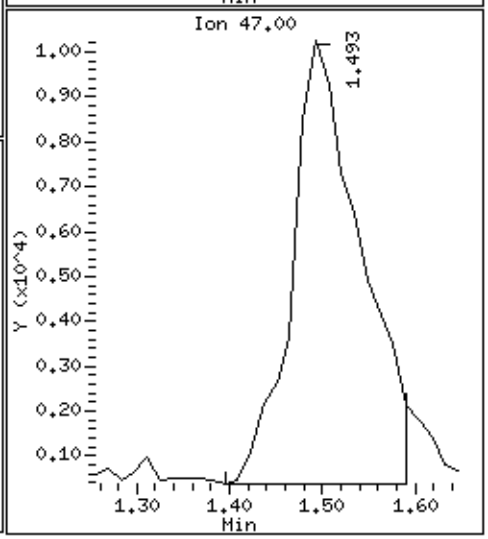












Data File: /chem/msd3.i/27JUL21.b/3072714.d

Date : 27-JUL-2021 18:58

Client ID:

Instrument: msd3.i

Sample Info: 200mL 00732

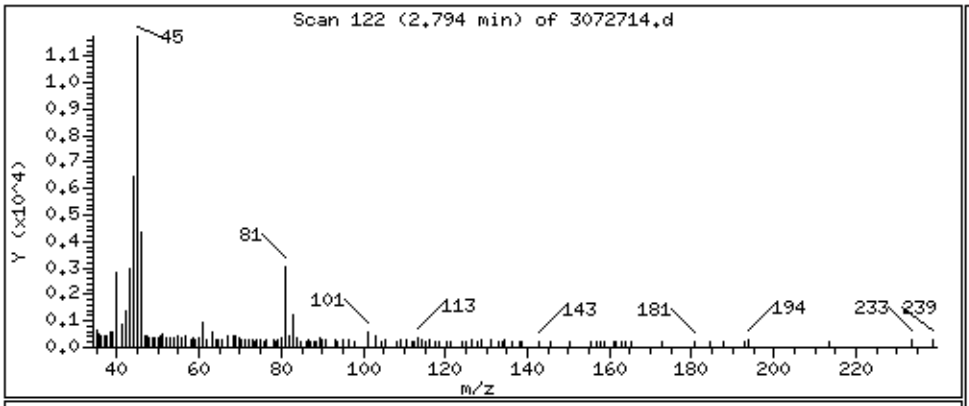
Operator: LD

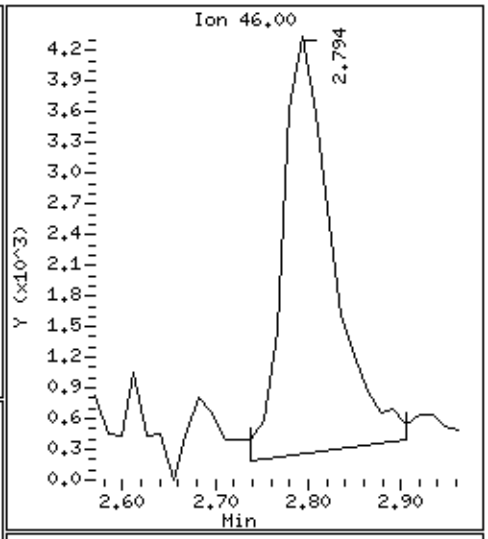
Column phase: RTX-624

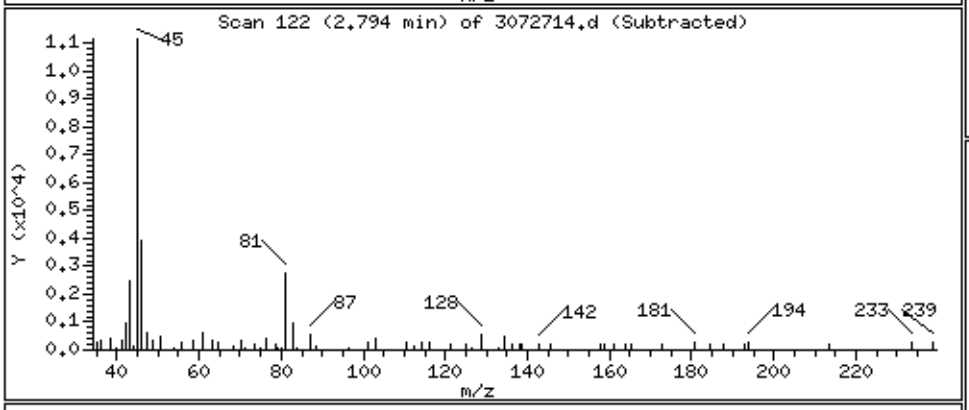
Column diameter: 0.25

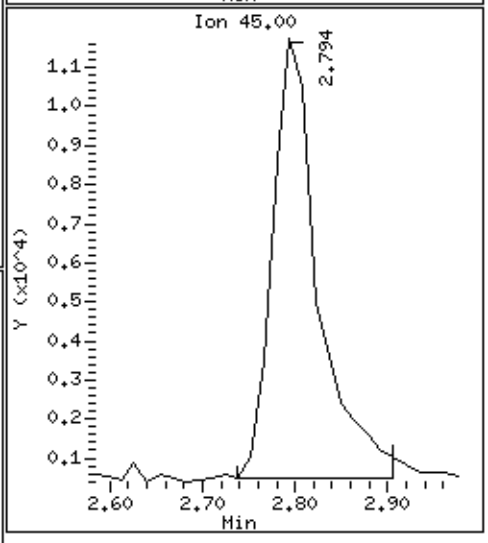
39 Ethanol

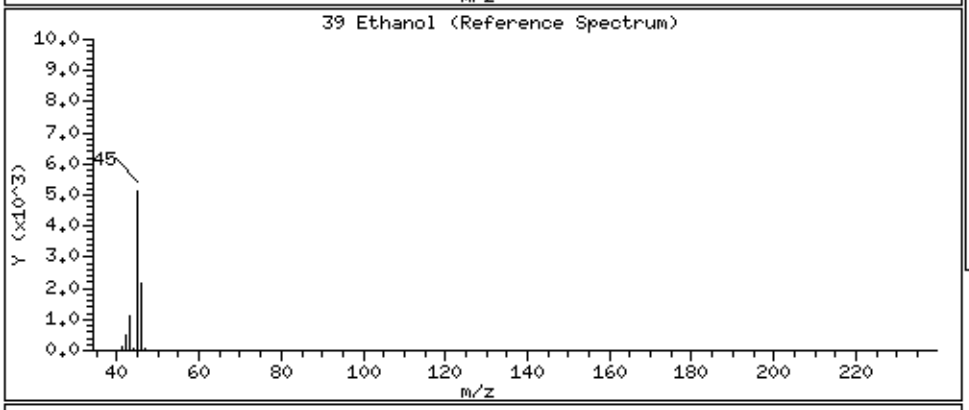
Concentration: 20.683 PPBV

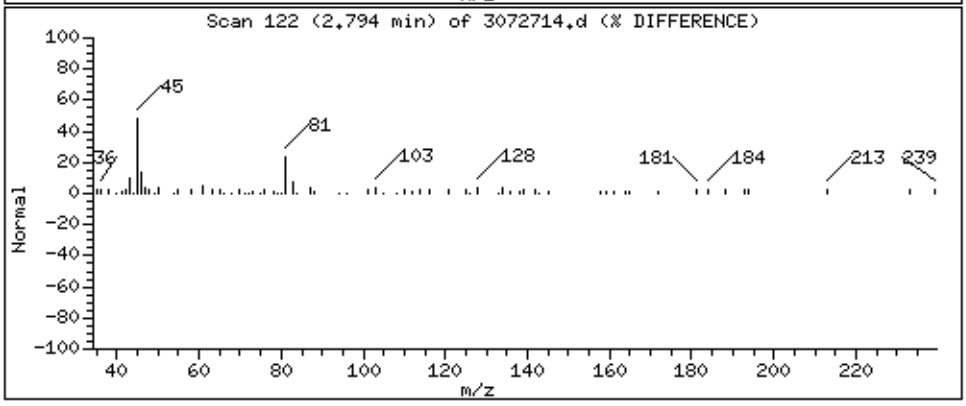












Data File: /chem/msd3.i/27JUL21.b/3072714.d

Date : 27-JUL-2021 18:58

Client ID:

Instrument: msd3.i

Sample Info: 200mL 00732

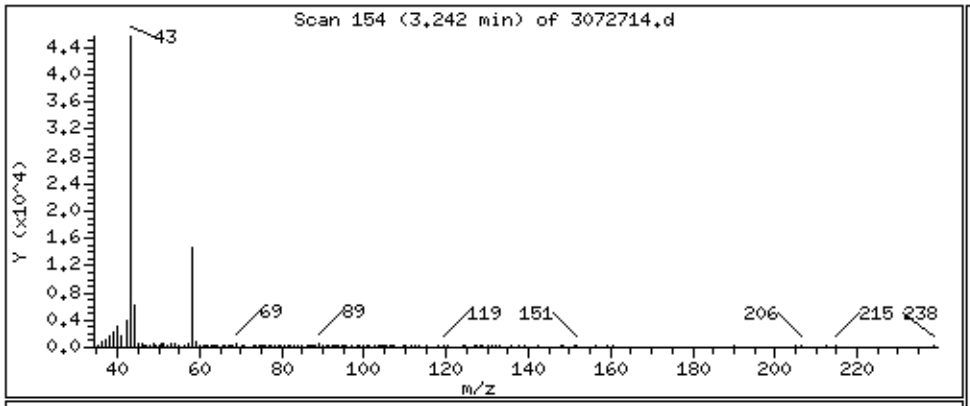
Operator: LD

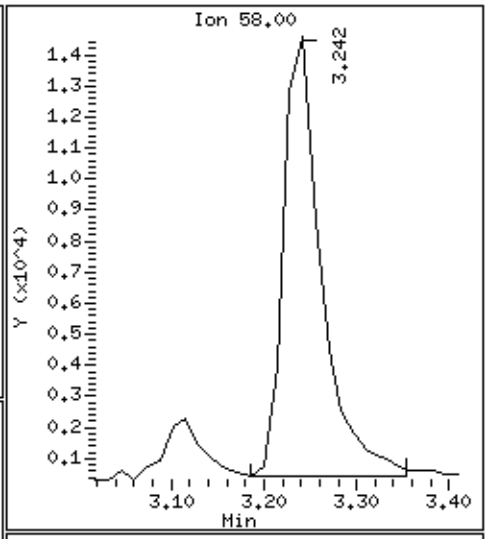
Column phase: RTX-624

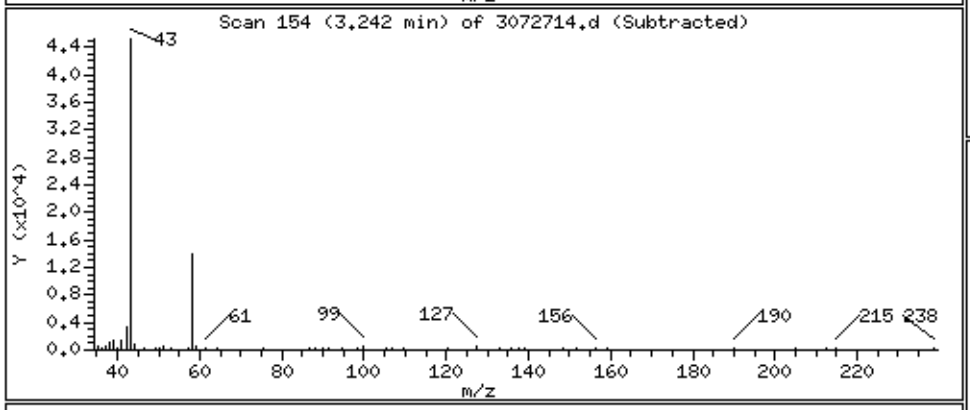
Column diameter: 0.25

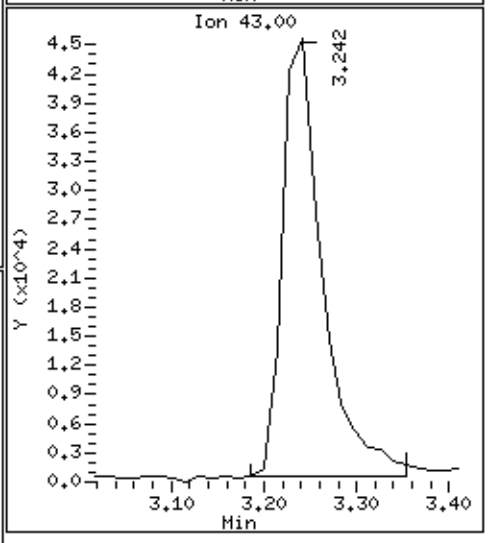
47 Acetone

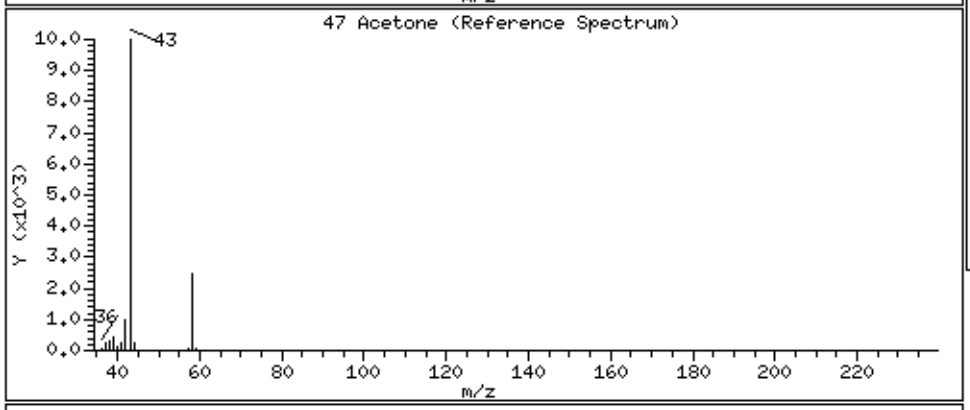
Concentration: 19.358 PPBV

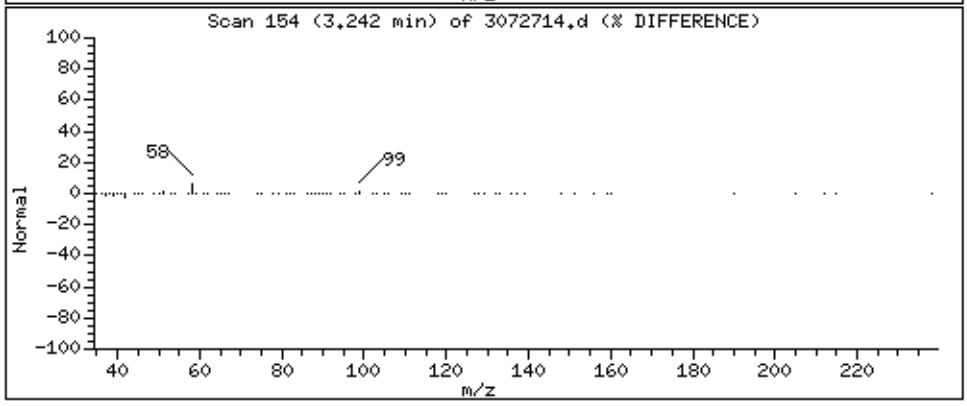












Data File: /chem/msd3.i/27JUL21.b/3072714.d

Date : 27-JUL-2021 18:58

Client ID:

Instrument: msd3.i

Sample Info: 200mL 00732

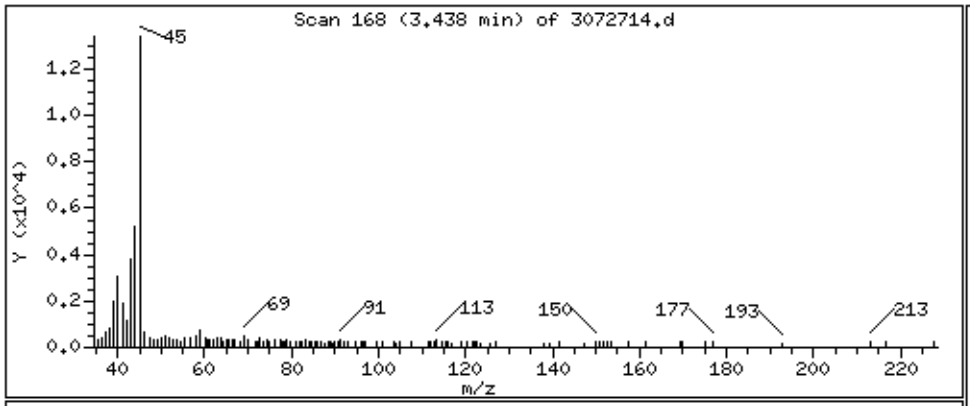
Operator: LD

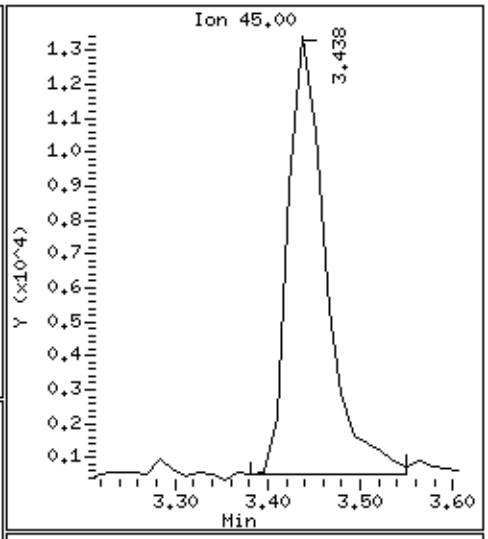
Column phase: RTX-624

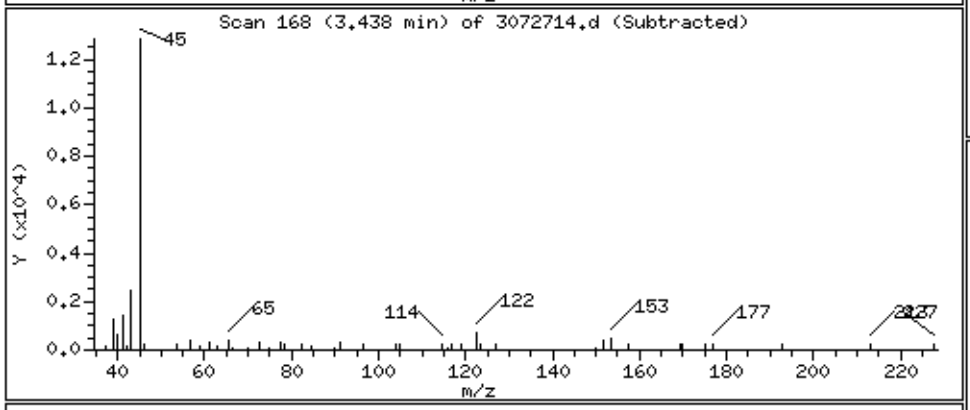
Column diameter: 0.25

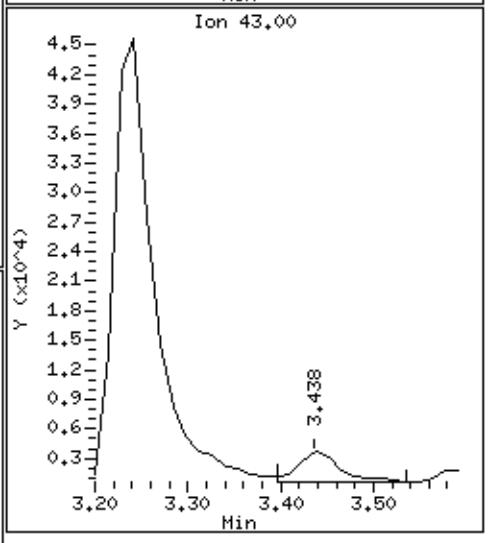
52 2-Propanol

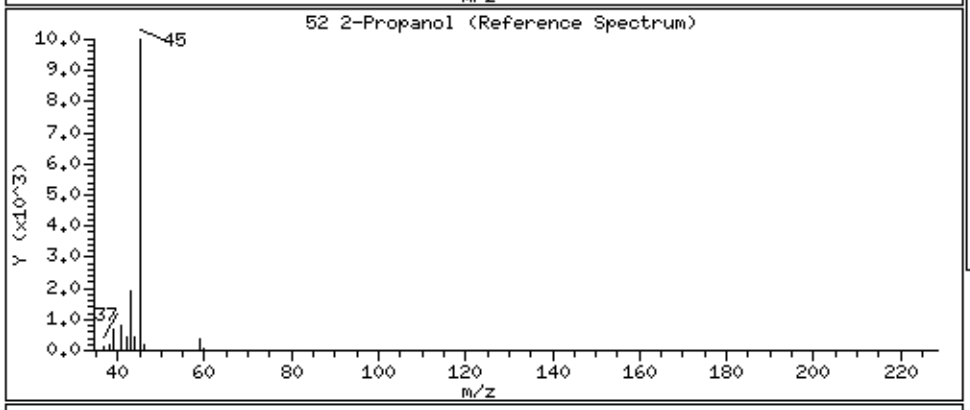
Concentration: 4.901 PPBV

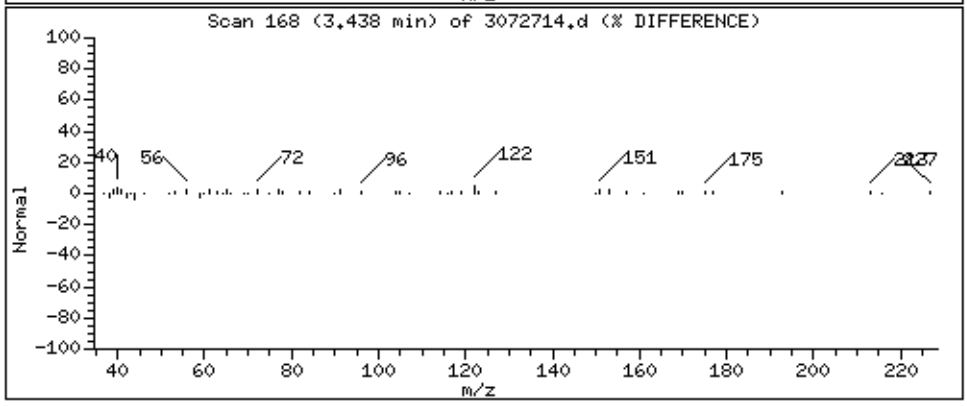












Data File: /chem/msd3.i/27JUL21.b/3072714.d

Date : 27-JUL-2021 18:58

Client ID:

Instrument: msd3.i

Sample Info: 200mL 00732

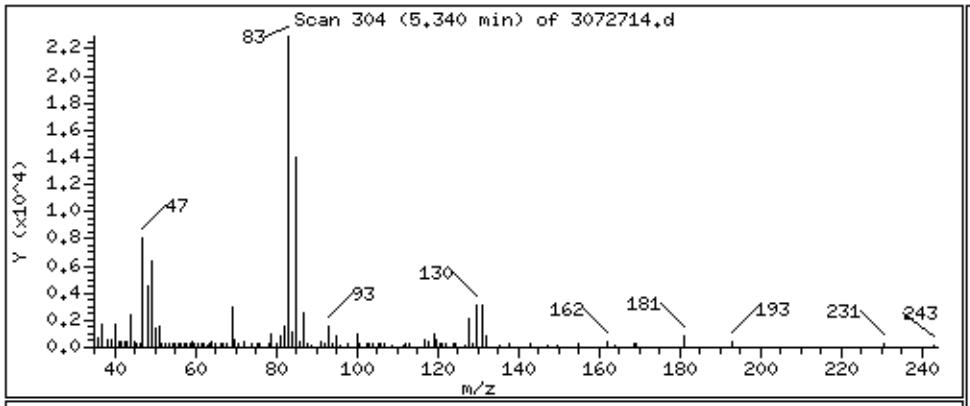
Operator: LD

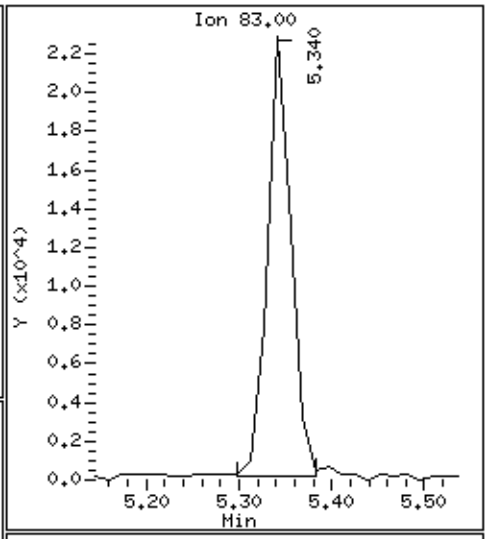
Column phase: RTX-624

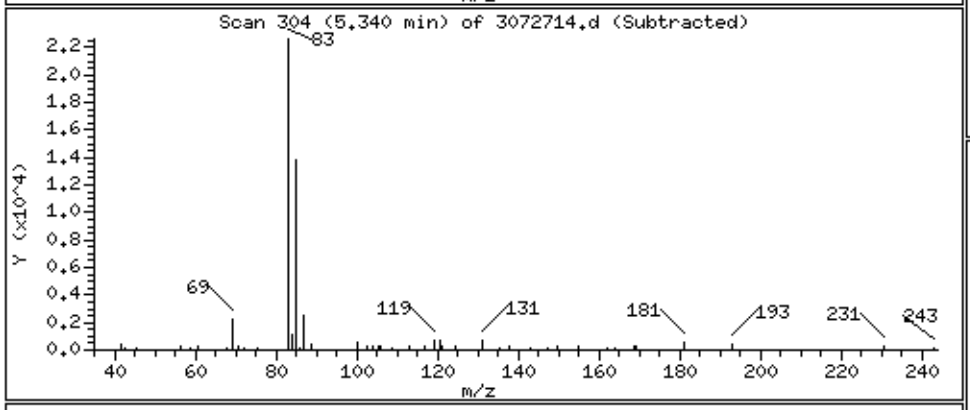
Column diameter: 0.25

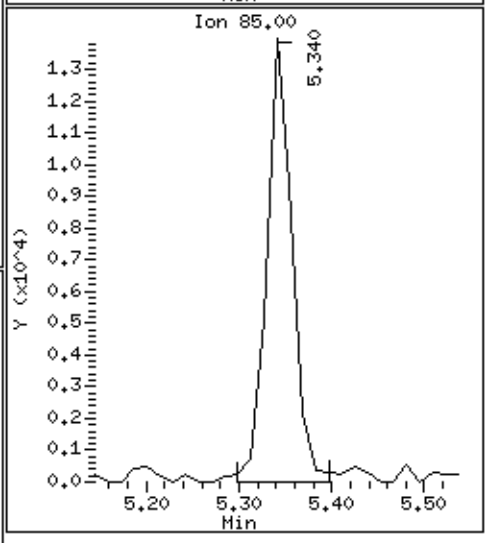
92 Chloroform

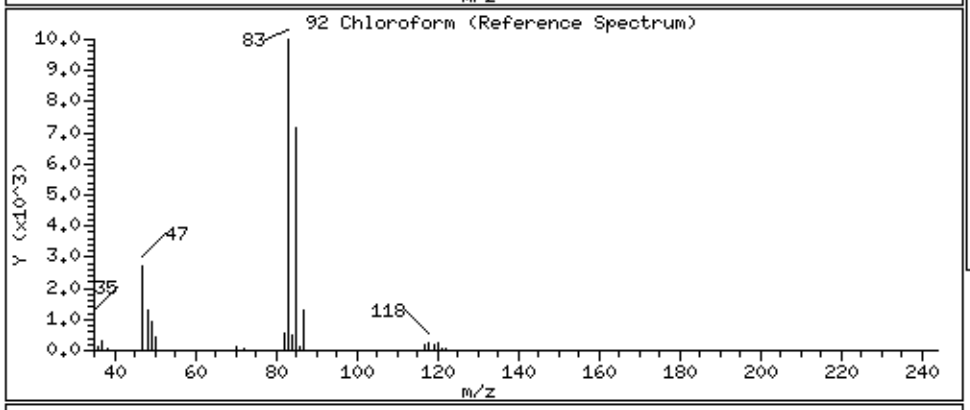
Concentration: 5.227 PPBV

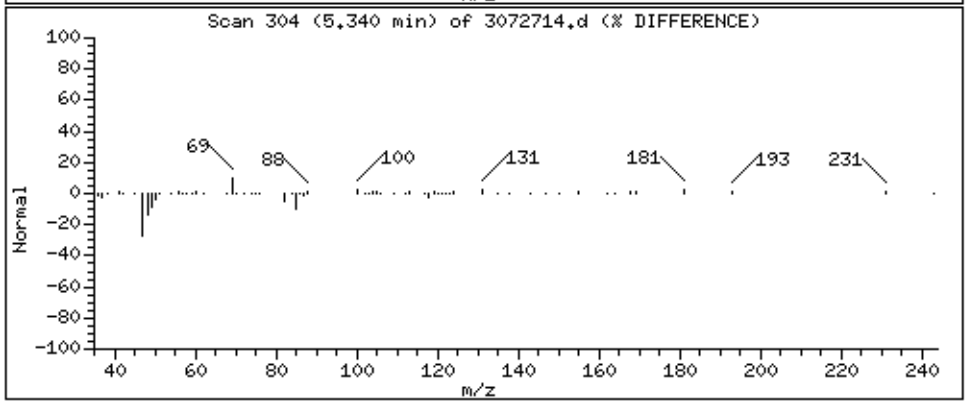












Data File: /chem/msd3.i/27JUL21.b/3072714.d

Date : 27-JUL-2021 18:58

Client ID:

Instrument: msd3.i

Sample Info: 200mL 00732

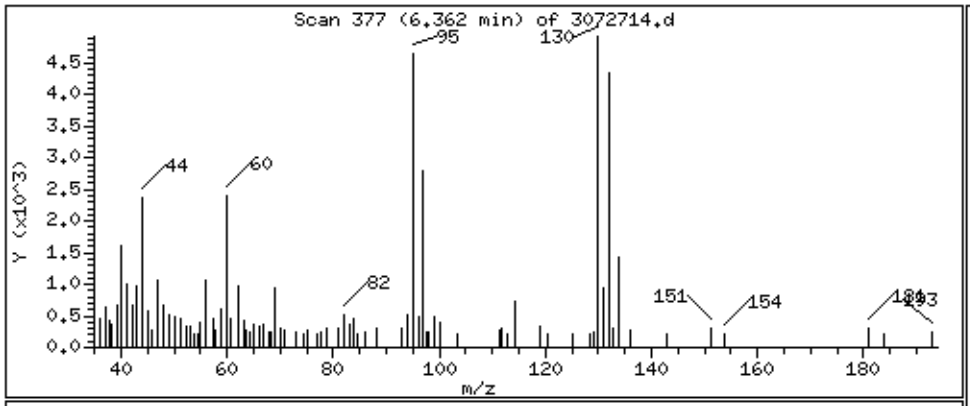
Operator: LD

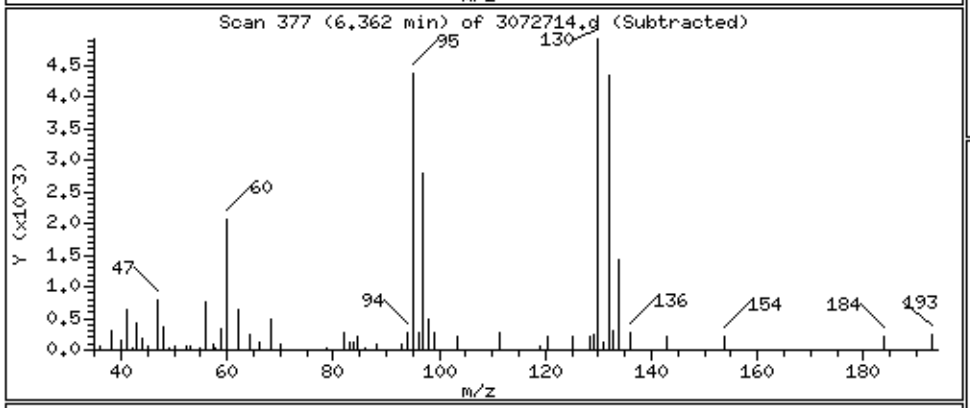
Column phase: RTX-624

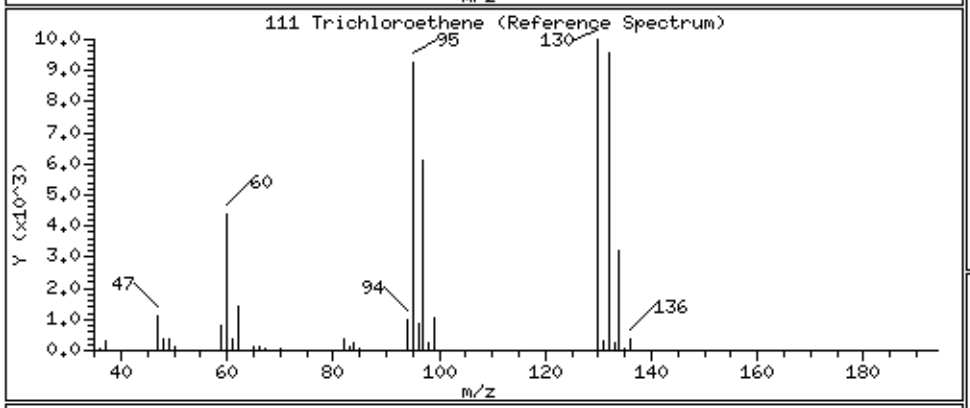
Column diameter: 0.25

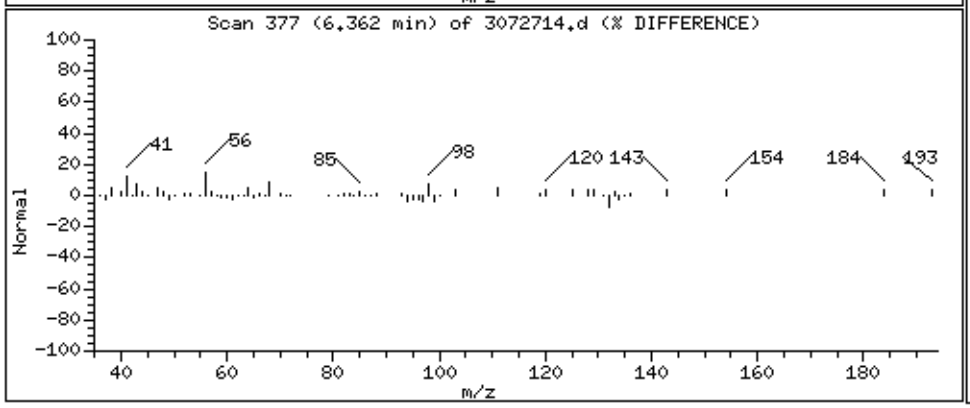
111 Trichloroethene

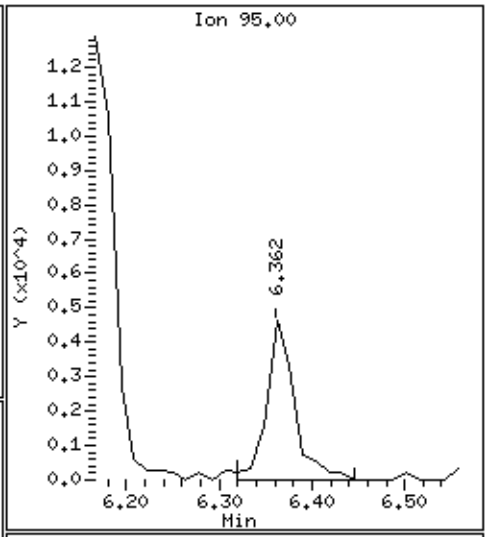
Concentration: 2.081 PPBV

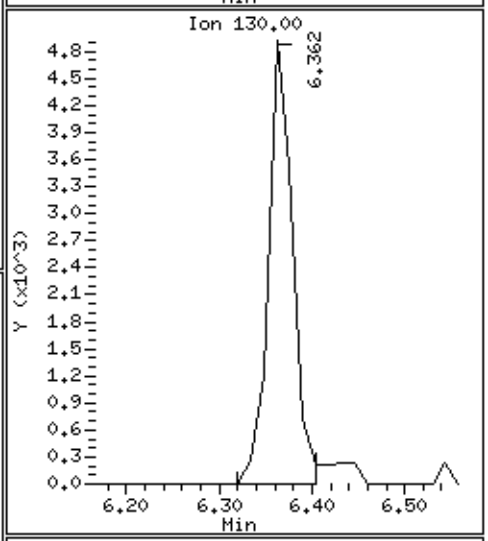


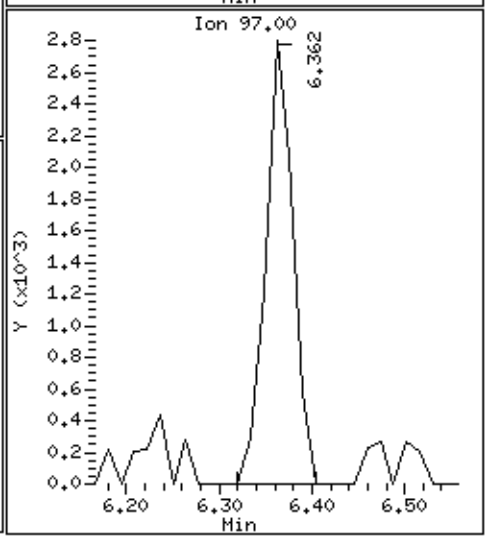












Data File: /chem/msd3.i/27JUL21.b/3072714.d

Date : 27-JUL-2021 18:58

Client ID:

Instrument: msd3.i

Sample Info: 200mL 00732

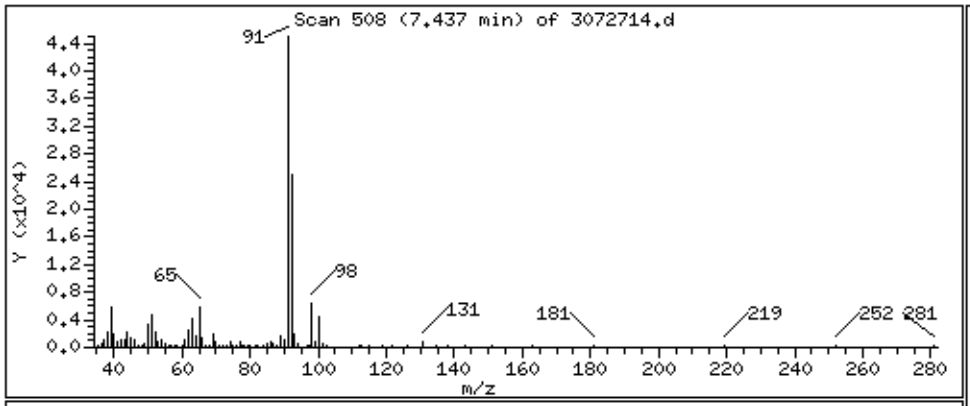
Operator: LD

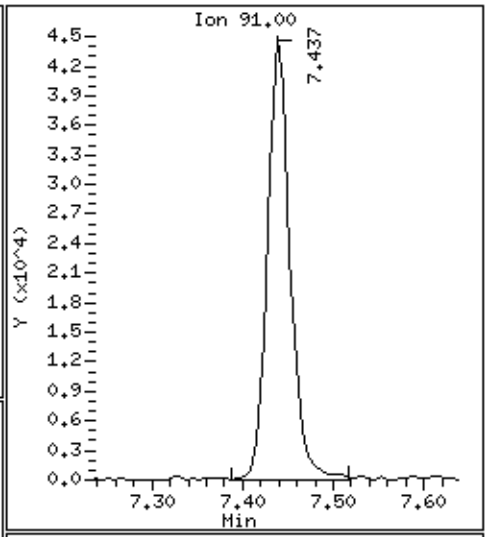
Column phase: RTX-624

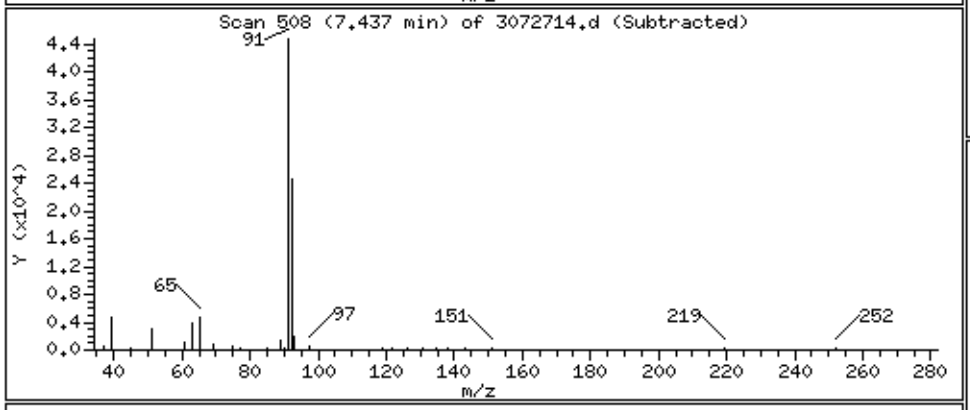
Column diameter: 0.25

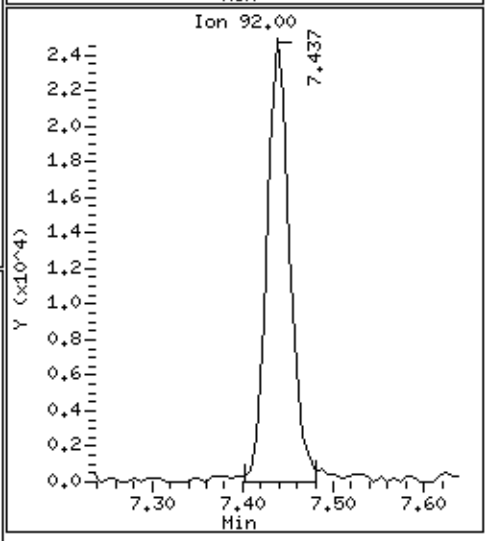
137 Toluene

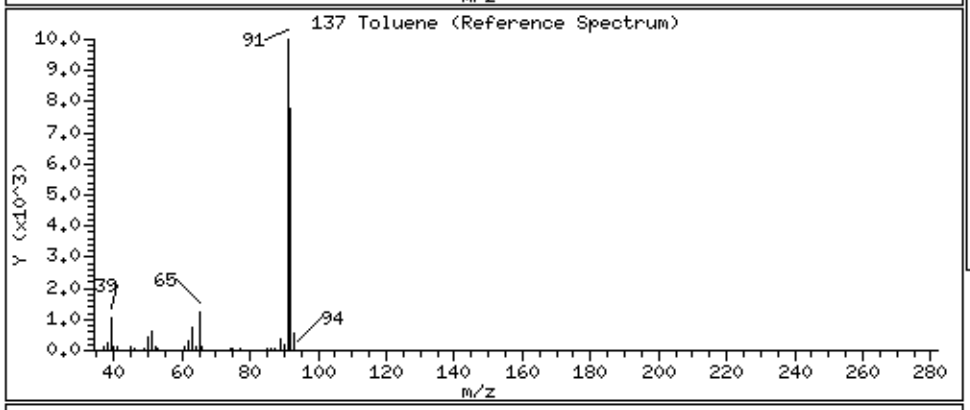
Concentration: 6.137 PPBV

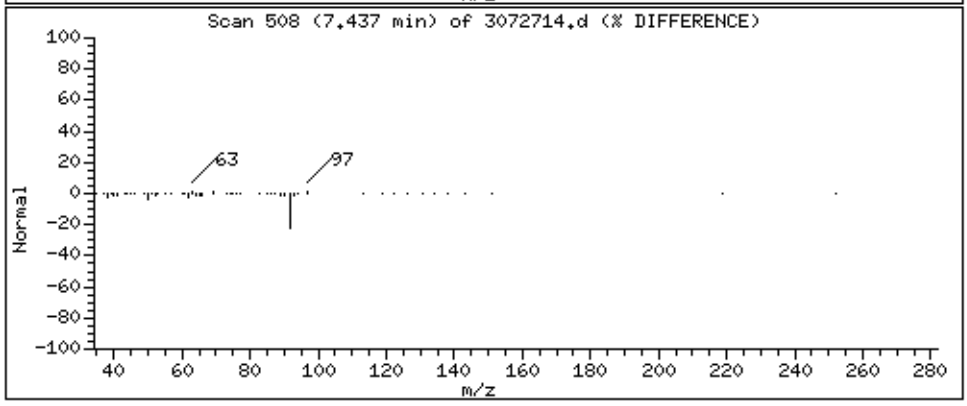












Data File: /chem/msd3.i/27JUL21.b/3072714.d

Date : 27-JUL-2021 18:58

Client ID:

Instrument: msd3.i

Sample Info: 200mL 00732

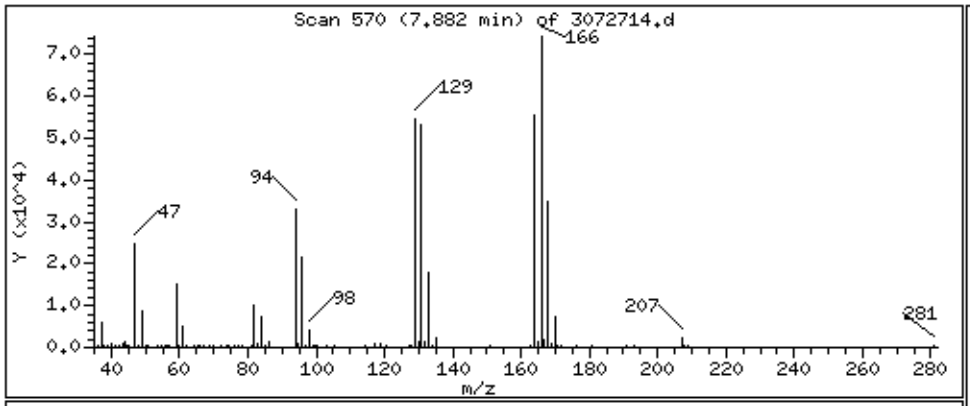
Operator: LD

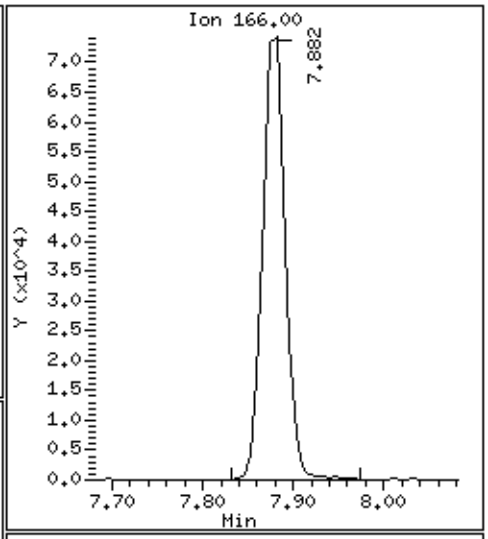
Column phase: RTX-624

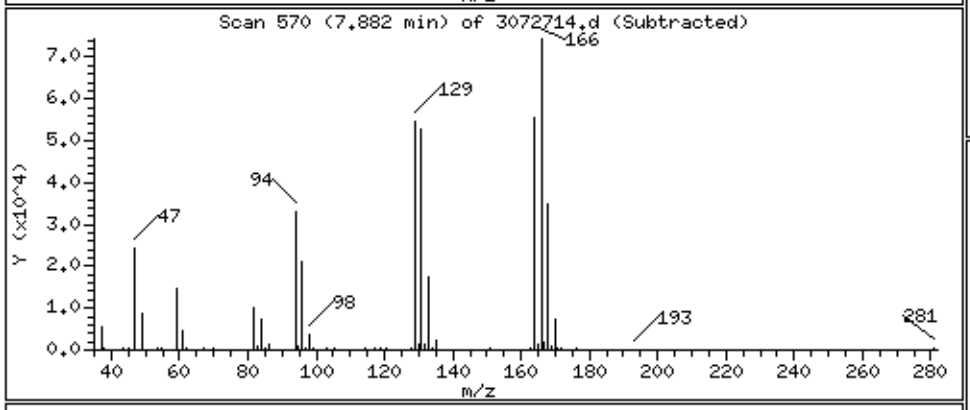
Column diameter: 0.25

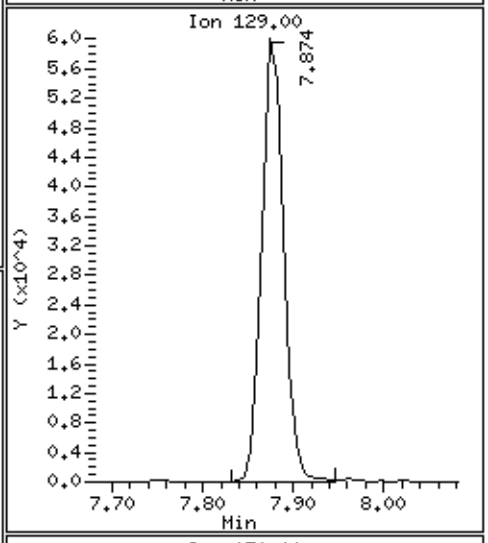
142 Tetrachloroethene

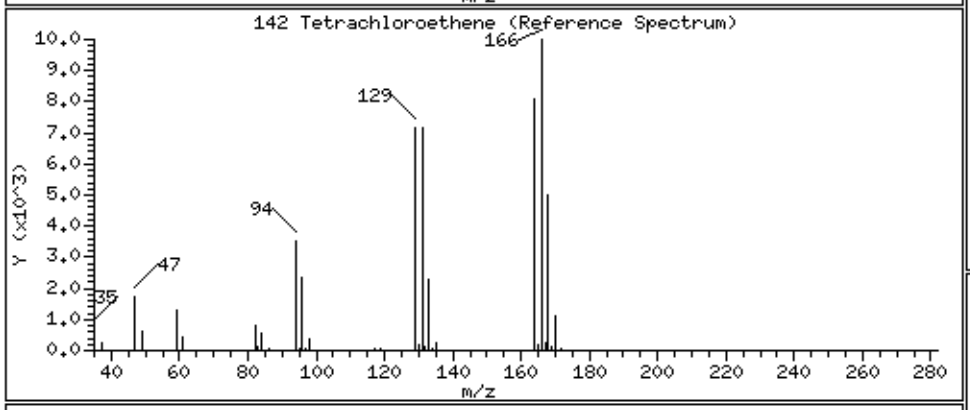
Concentration: 22.408 PPBV

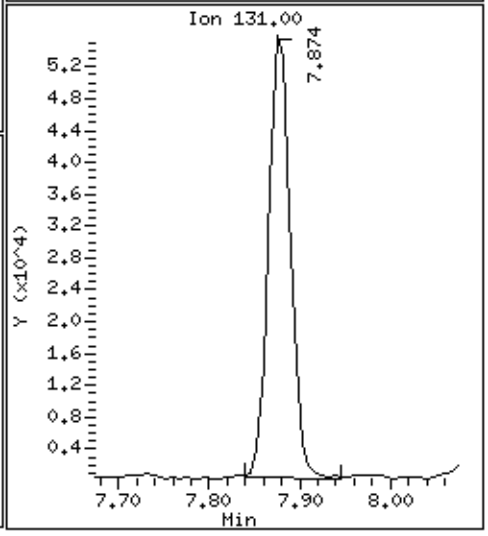


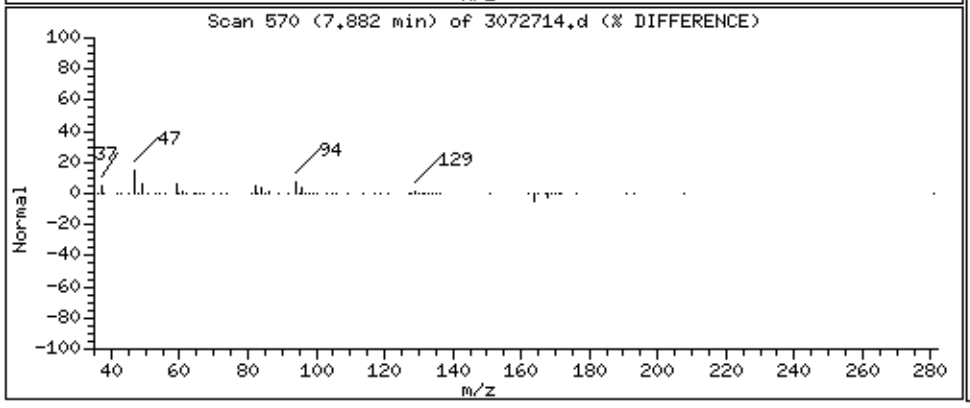












eurofins | Air Toxics

Client Sample ID: SG-VW20A-02

Lab ID#: 2107284-26A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3072715**	**Date of Collection: 7/14/21 2:10:00 PM**	
Dil. Factor:	**2.15**	**Date of Analysis: 7/27/21 07:27 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1,2-Tetrachloroethane	4.3	Not Detected	30	Not Detected
1,1,1-Trichloroethane	1.1	Not Detected	5.9	Not Detected
1,1,2,2-Tetrachloroethane	1.1	Not Detected	7.4	Not Detected
1,1,2-Trichloroethane	1.1	Not Detected	5.9	Not Detected
1,1-Dichloroethane	1.1	Not Detected	4.4	Not Detected
1,1-Dichloroethene	1.1	Not Detected	4.3	Not Detected
1,1-Difluoroethane	4.3	180	12	490
1,2,3-Trichloropropane	4.3	Not Detected	26	Not Detected
1,2,4-Trichlorobenzene	4.3	Not Detected	32	Not Detected
1,2,4-Trimethylbenzene	1.1	Not Detected	5.3	Not Detected
1,2-Dibromo-3-chloropropane	4.3	Not Detected	42	Not Detected
1,2-Dibromoethane (EDB)	1.1	Not Detected	8.3	Not Detected
1,2-Dichlorobenzene	1.1	Not Detected	6.5	Not Detected
1,2-Dichloroethane	1.1	Not Detected	4.4	Not Detected
1,2-Dichloropropane	1.1	Not Detected	5.0	Not Detected
1,3,5-Trimethylbenzene	1.1	Not Detected	5.3	Not Detected
1,3-Butadiene	1.1	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	1.1	Not Detected	6.5	Not Detected
1,4-Dichlorobenzene	1.1	Not Detected	6.5	Not Detected
1,4-Dioxane	4.3	Not Detected	15	Not Detected
2,2,4-Trimethylpentane	1.1	Not Detected	5.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.3	Not Detected	13	Not Detected
2-Hexanone	4.3	Not Detected	18	Not Detected
2-Propanol	4.3	Not Detected	10	Not Detected
3-Chloropropene	4.3	Not Detected	13	Not Detected
4-Ethyltoluene	1.1	Not Detected	5.3	Not Detected
4-Methyl-2-pentanone	1.1	Not Detected	4.4	Not Detected
Acetone	11	23	26	54
Acrolein	4.3	Not Detected	9.8	Not Detected
Acrylonitrile	4.3	Not Detected	9.3	Not Detected
alpha-Chlorotoluene	1.1	Not Detected	5.6	Not Detected
Benzene	1.1	Not Detected	3.4	Not Detected
Bromodichloromethane	1.1	Not Detected	7.2	Not Detected
Bromoform	1.1	Not Detected	11	Not Detected
Bromomethane	11	Not Detected	42	Not Detected
Carbon Disulfide	4.3	Not Detected	13	Not Detected
Carbon Tetrachloride	1.1	Not Detected	6.8	Not Detected
Chlorobenzene	1.1	Not Detected	4.9	Not Detected
Chloroethane	4.3	Not Detected	11	Not Detected
Chloroform	1.1	Not Detected	5.2	Not Detected
Chloromethane	11	Not Detected	22	Not Detected
cis-1,2-Dichloroethene	1.1	Not Detected	4.3	Not Detected

eurofins | Air Toxics

Client Sample ID: SG-VW20A-02

Lab ID#: 2107284-26A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3072715**	**Date of Collection:**	**7/14/21 2:10:00 PM**
Dil. Factor:	**2.15**	**Date of Analysis:**	**7/27/21 07:27 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,3-Dichloropropene	1.1	Not Detected	4.9	Not Detected
Cumene	1.1	Not Detected	5.3	Not Detected
Cyclohexane	1.1	Not Detected	3.7	Not Detected
Dibromochloromethane	1.1	Not Detected	9.2	Not Detected
Dibromomethane	4.3	Not Detected	30	Not Detected
Ethanol	11	Not Detected	20	Not Detected
Ethyl Acetate	4.3	Not Detected	15	Not Detected
Ethyl Benzene	1.1	Not Detected	4.7	Not Detected
Ethyl-tert-butyl ether	4.3	Not Detected	18	Not Detected
Freon 11	1.1	Not Detected	6.0	Not Detected
Freon 12	1.1	Not Detected	5.3	Not Detected
Freon 113	1.1	Not Detected	8.2	Not Detected
Freon 114	1.1	Not Detected	7.5	Not Detected
Freon 134a	4.3	Not Detected	18	Not Detected
Heptane	1.1	Not Detected	4.4	Not Detected
Hexachlorobutadiene	4.3	Not Detected	46	Not Detected
Hexachloroethane	4.3	Not Detected	42	Not Detected
Hexane	1.1	Not Detected	3.8	Not Detected
Iodomethane	11	Not Detected	62	Not Detected
Isopropyl ether	4.3	Not Detected	18	Not Detected
m,p-Xylene	1.1	Not Detected	4.7	Not Detected
Methyl tert-butyl ether	4.3	Not Detected	16	Not Detected
Methylene Chloride	11	Not Detected	37	Not Detected
Naphthalene	2.2	Not Detected	11	Not Detected
o-Xylene	1.1	Not Detected	4.7	Not Detected
Propylbenzene	1.1	Not Detected	5.3	Not Detected
Propylene	4.3	Not Detected	7.4	Not Detected
Styrene	1.1	Not Detected	4.6	Not Detected
tert-Amyl methyl ether	4.3	Not Detected	18	Not Detected
tert-Butyl alcohol	4.3	Not Detected	13	Not Detected
Tetrachloroethene	1.1	5.8	7.3	39
Tetrahydrofuran	1.1	Not Detected	3.2	Not Detected
Toluene	1.1	Not Detected	4.0	Not Detected
TPH ref. to Gasoline (MW=100)	110	Not Detected	440	Not Detected
trans-1,2-Dichloroethene	1.1	Not Detected	4.3	Not Detected
trans-1,3-Dichloropropene	1.1	Not Detected	4.9	Not Detected
Trichloroethene	1.1	Not Detected	5.8	Not Detected
Vinyl Acetate	4.3	Not Detected	15	Not Detected
Vinyl Bromide	4.3	Not Detected	19	Not Detected
Vinyl Chloride	1.1	Not Detected	2.7	Not Detected

Container Type: 1 Liter Summa Canister

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Client Sample ID: SG-VW20A-02

Lab ID#: 2107284-26A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3072715**	**Date of Collection:**	**7/14/21 2:10:00 PM**
Dil. Factor:	**2.15**	**Date of Analysis:**	**7/27/21 07:27 PM**

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	94	70-130
4-Bromofluorobenzene	93	70-130

US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msd3.i/27JUL21.b/3072715.d
Lab Smp Id: 2107284-26A
Inj Date : 27-JUL-2021 19:27
Operator : LD Inst ID: msd3.i
Smp Info : 200mL S1120
Misc Info : 6.5 Hg->10.1 psi
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msd3.i/27JUL21.b/321q0622a.m
Meth Date : 27-Jul-2021 15:31 lk8g Quant Type: ISTD
Cal Date : 23-JUN-2021 00:09 Cal File: 3062223.d
Als bottle: 6
Dil Factor: 2.15000
Integrator: HP RTE Compound Sublist: AEC25677.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE		(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 90 Bromochloromethane						CAS #: 74-97-5		
5.285	5.284 (1.000)	130	224117	25.0000			80.00- 120.00	100.00
5.285	5.284 (1.000)	128	175207				48.46- 108.46	78.18
5.271	5.270 (1.000)	49	312651				120.39- 180.39	139.50
* 108 1,4-Difluorobenzene						CAS #: 540-36-3		
6.180	6.180 (1.000)	114	706428	25.0000			80.00- 120.00	100.00
6.166	6.180 (1.000)	88	103213				0.00- 45.52	14.61
* 153 Chlorobenzene-d5						CAS #: 3114-55-4		
8.619	8.612 (1.000)	117	659959	25.0000			80.00- 120.00	100.00
8.619	8.612 (1.000)	82	340888				25.46- 85.46	51.65
$ 104 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
5.816	5.816 (1.101)	65	288464	23.3889	23.389		80.00- 120.00	100.00
5.816	5.816 (1.101)	67	139451				21.66- 81.66	48.34
$ 134 Toluene-d8						CAS #: 2037-26-5		
7.387	7.387 (1.195)	98	734778	25.2531	25.253		80.00- 120.00	100.00
7.387	7.387 (1.195)	70	82569				0.00- 41.47	11.24

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 134 Toluene-d8 (continued)							
7.387	7.387 (1.195)	100	480012			36.47- 96.47	65.33
$ 170 4-Bromofluorobenzene					CAS #: 460-00-4		
9.601	9.601 (1.114)	174	407310	23.3332	23.333	80.00- 120.00	100.00
9.601	9.601 (1.114)	95	453309			93.06- 153.06	111.29
9.601	9.601 (1.114)	176	377604			62.87- 122.87	92.71
7 1,1-Difluoroethane					CAS #: 75-37-6		
1.437	1.437 (0.272)	65	296075	83.9023	180.39	80.00- 120.00	100.00
1.479	1.479 (0.280)	51	897854			321.86- 381.86	303.25
1.437	1.451 (0.272)	47	168808			45.34- 105.34	57.02
47 Acetone					CAS #: 67-64-1		
3.242	3.214 (0.613)	58	40034	10.6531	22.904	80.00- 120.00	100.00(H)
3.242	3.214 (0.613)	43	133253			299.66- 359.66	332.84
142 Tetrachloroethene					CAS #: 127-18-4		
7.882	7.881 (0.914)	166	27837	2.69242	5.789	80.00- 120.00	100.00
7.882	7.881 (0.914)	129	22088			48.71- 108.71	79.35
7.874	7.874 (0.914)	131	21735			46.55- 106.55	78.08

QC Flag Legend

H - Operator selected an alternate compound hit.

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd3.i
Lab File ID: 3072715.d
Lab Smp Id: 2107284-26A
Analysis Type: VOA
Quant Type: ISTD
Operator: LD
Method File: /chem/msd3.i/27JUL21.b/321q0622a.m
Misc Info: 6.5 Hg->10.1 psi

Calibration Date: 27-JUL-2021
Calibration Time: 11:36
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	238986	143392	334580	224117	-6.22
108 1,4-Difluorobenze	785289	471173	1099405	706428	-10.04
153 Chlorobenzene-d5	683596	410158	957034	659959	-3.46

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.28	4.95	5.61	5.28	0.00
108 1,4-Difluorobenze	6.18	5.85	6.51	6.18	0.00
153 Chlorobenzene-d5	8.61	8.28	8.94	8.62	0.08

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 28-Jul-2021 15:42

US32TAR1

RECOVERY REPORT

Client Name: Client SDG: 27JUL21
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 2107284-26A
Level: LOW Operator: LD
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT20_new.spk Quant Type: ISTD
Sublist File: AEC25677.sub
Method File: /chem/msd3.i/27JUL21.b/321q0622a.m
Misc Info: 6.5 Hg->10.1 psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 104 1,2-Dichloroethan	25.000	23.389	93.56	70-130
$ 134 Toluene-d8	25.000	25.253	101.01	70-130
$ 170 4-Bromofluorobenz	25.000	23.333	93.33	70-130

Data File: /chem/msd3.i/27JUL21.b/3072715.d

Date : 27-JUL-2021 19:27

Client ID:

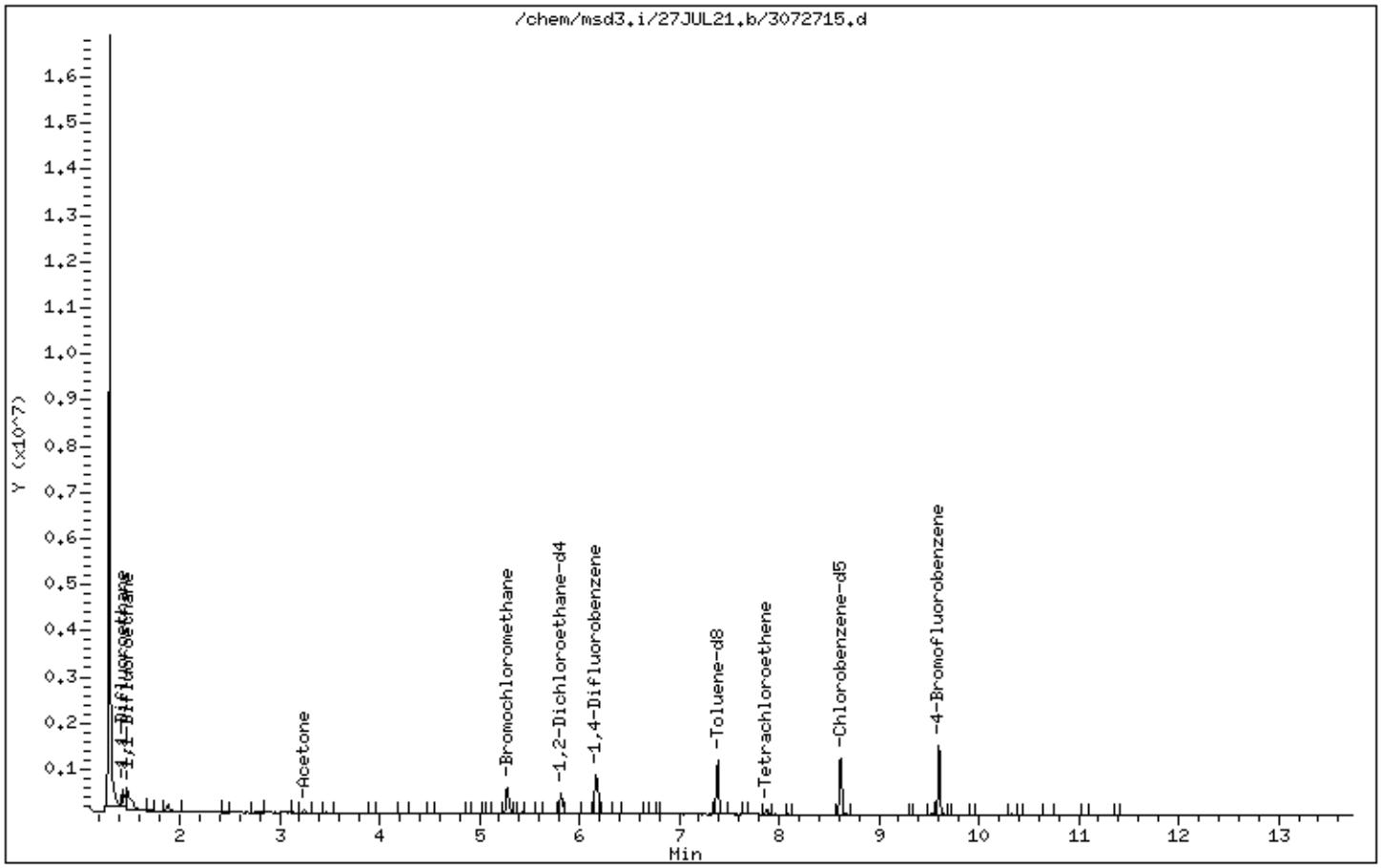
Instrument: msd3.i

Sample Info: 200mL S1120

Operator: LD

Column phase: RTX-624

Column diameter: 0.25



Data File: /chem/msd3.i/27JUL21.b/3072715.d

Date : 27-JUL-2021 19:27

Client ID:

Instrument: msd3.i

Sample Info: 200mL S1120

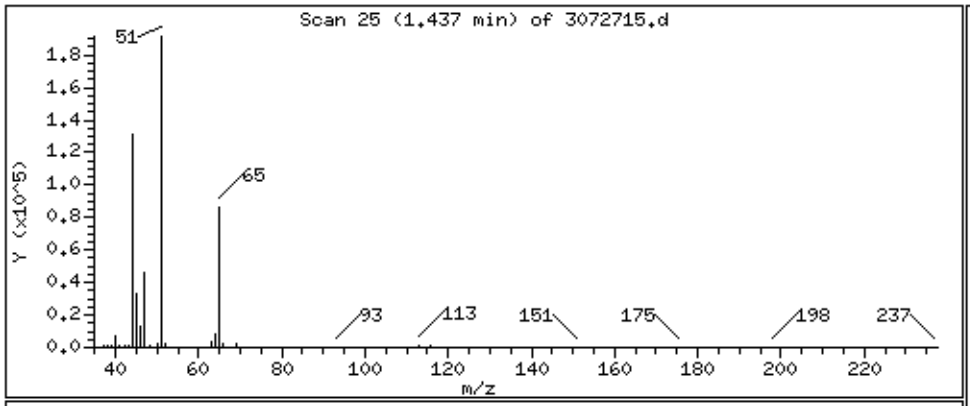
Operator: LD

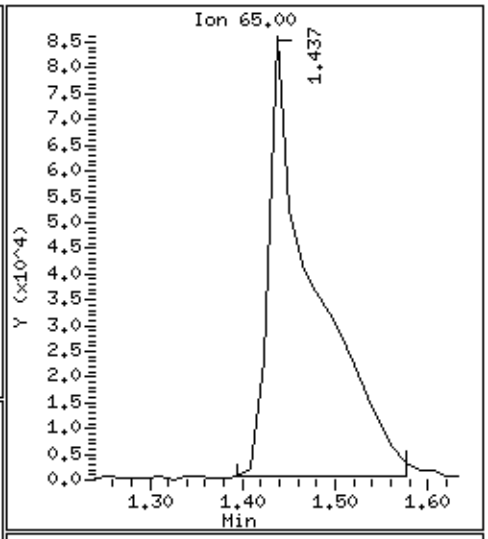
Column phase: RTX-624

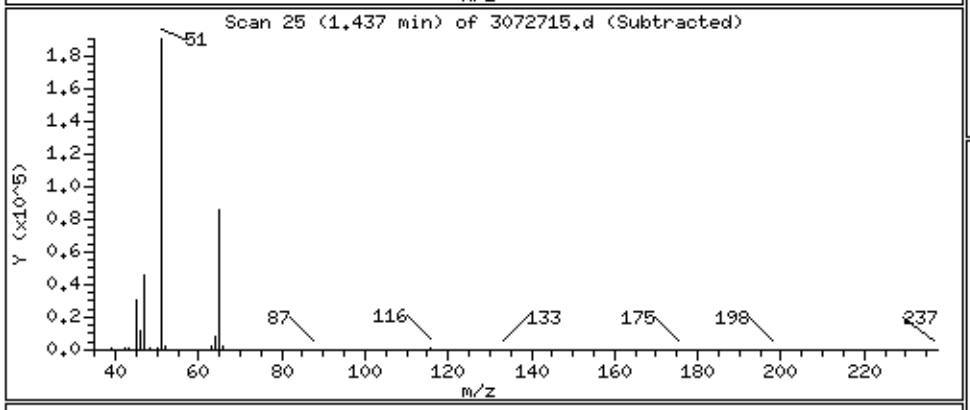
Column diameter: 0.25

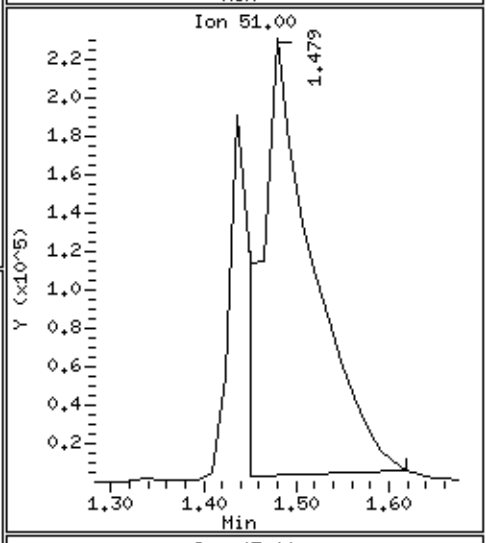
7 1,1-Difluoroethane

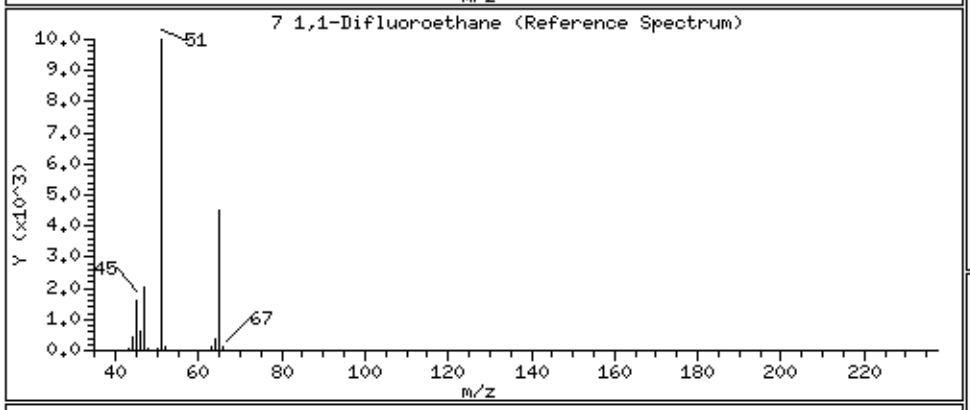
Concentration: 180.39 PPBV

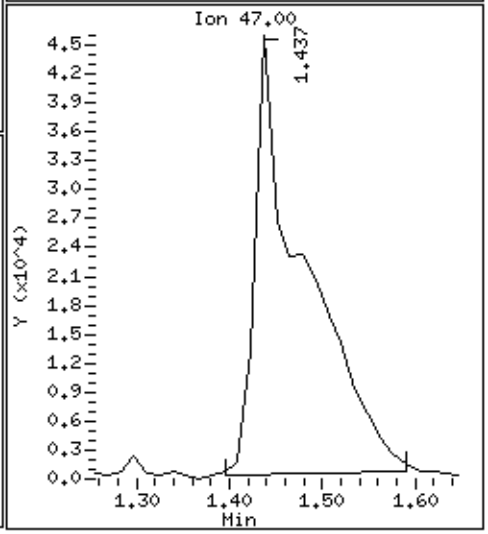


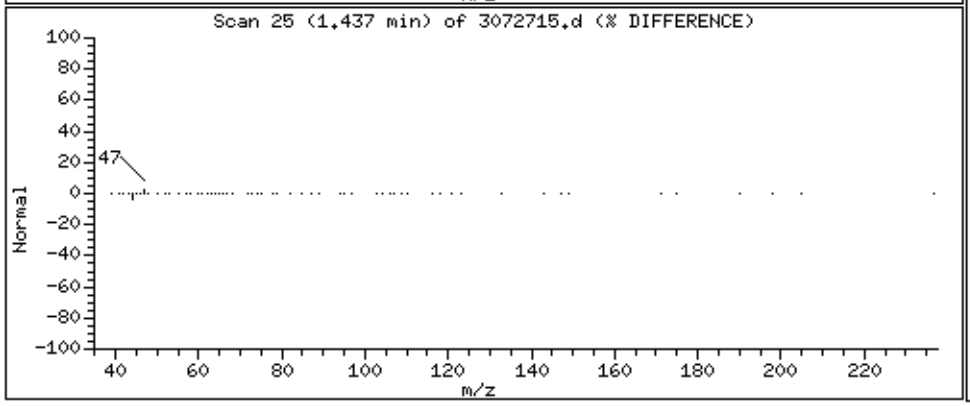












Data File: /chem/msd3.i/27JUL21.b/3072715.d

Date : 27-JUL-2021 19:27

Client ID:

Instrument: msd3.i

Sample Info: 200mL S1120

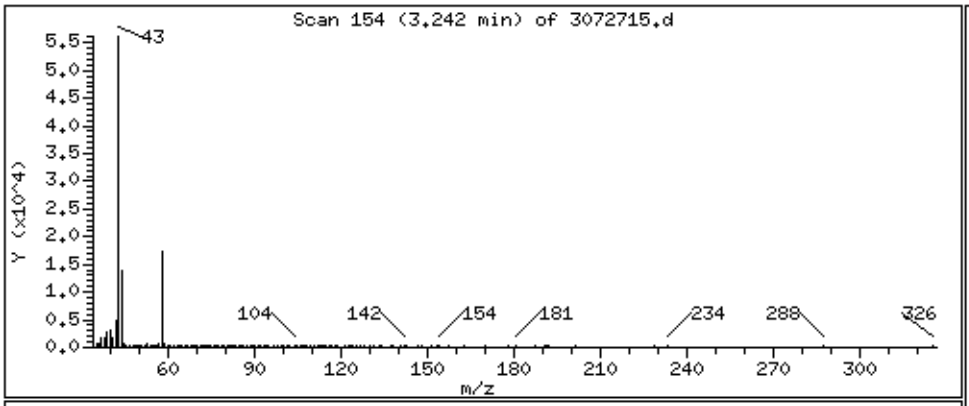
Operator: LD

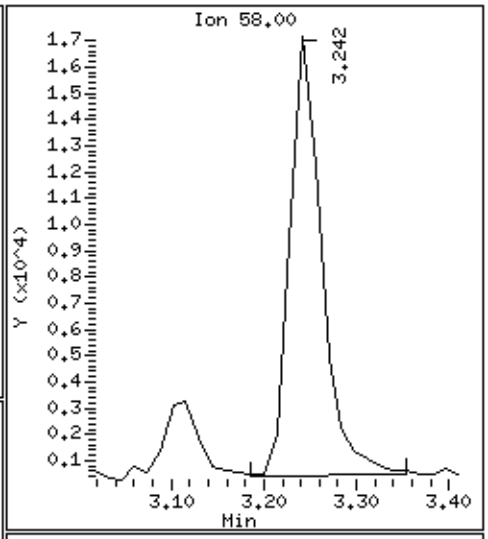
Column phase: RTX-624

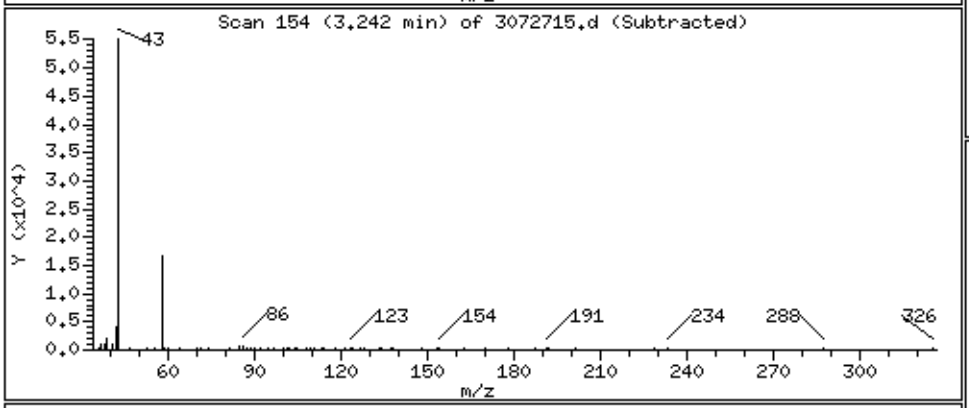
Column diameter: 0.25

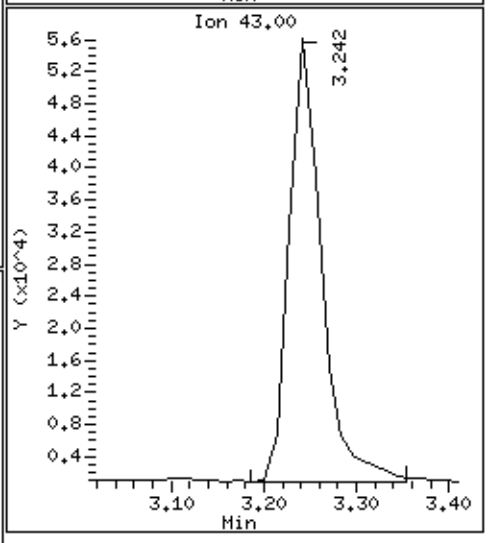
47 Acetone

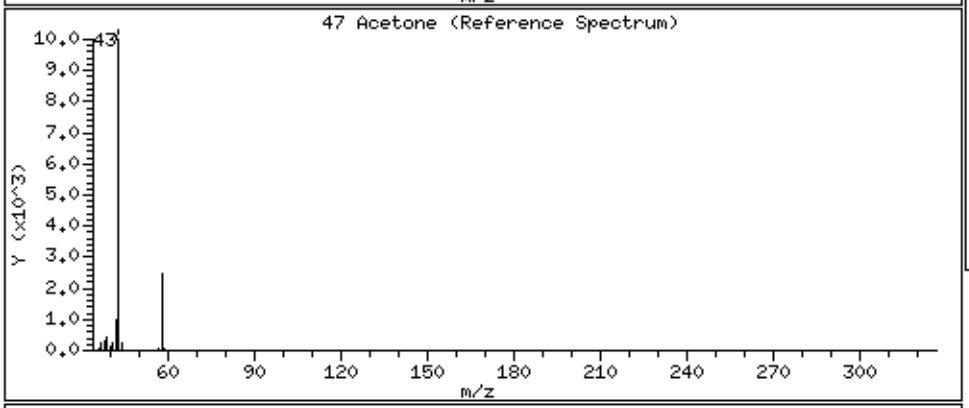
Concentration: 22.904 PPBV

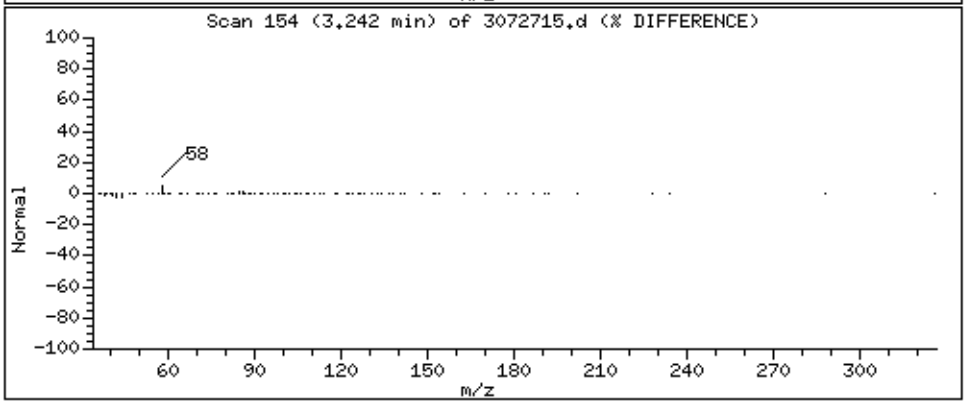












Data File: /chem/msd3.i/27JUL21.b/3072715.d

Date : 27-JUL-2021 19:27

Client ID:

Instrument: msd3.i

Sample Info: 200mL S1120

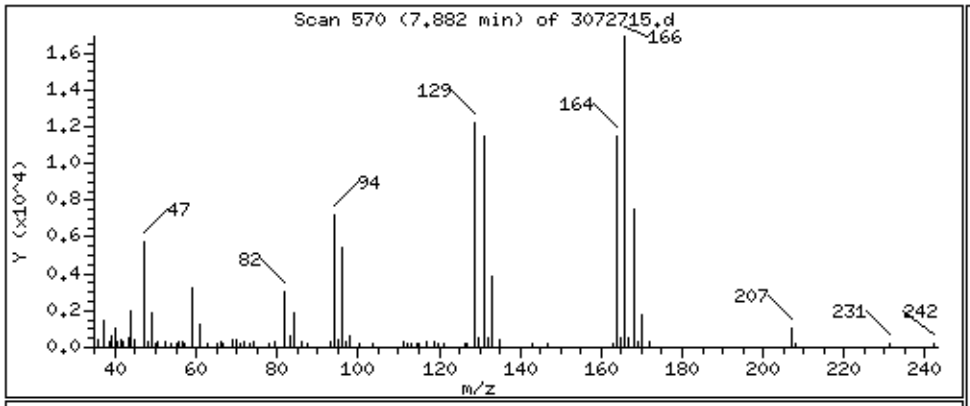
Operator: LD

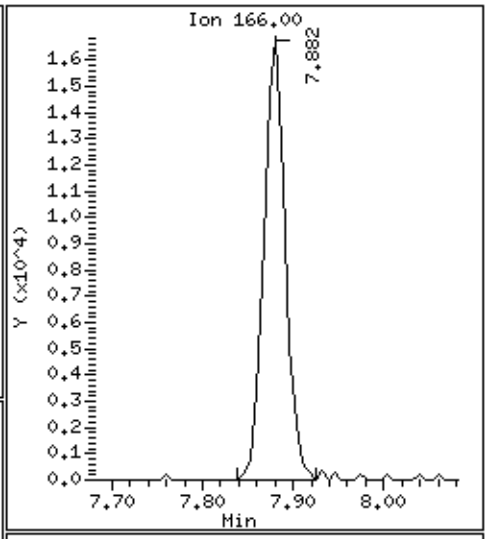
Column phase: RTX-624

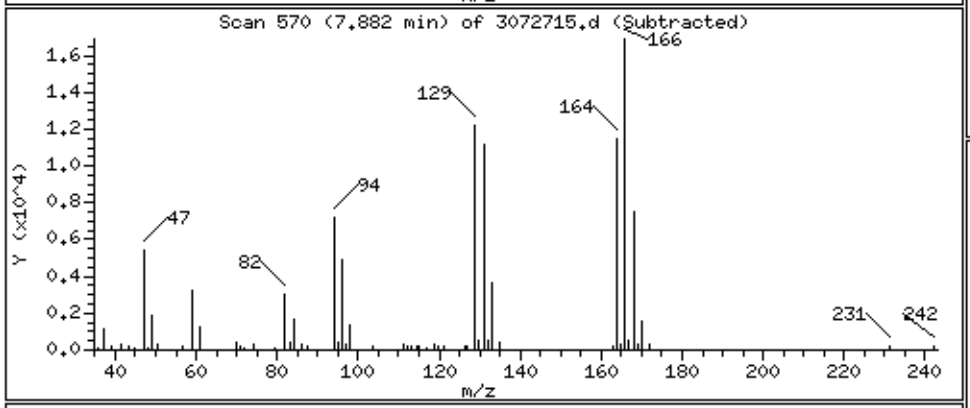
Column diameter: 0.25

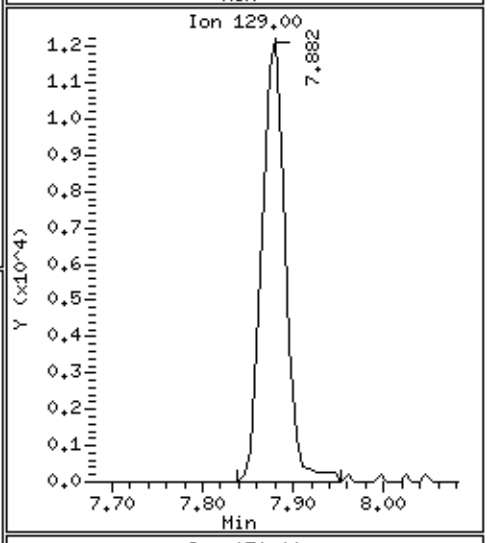
142 Tetrachloroethene

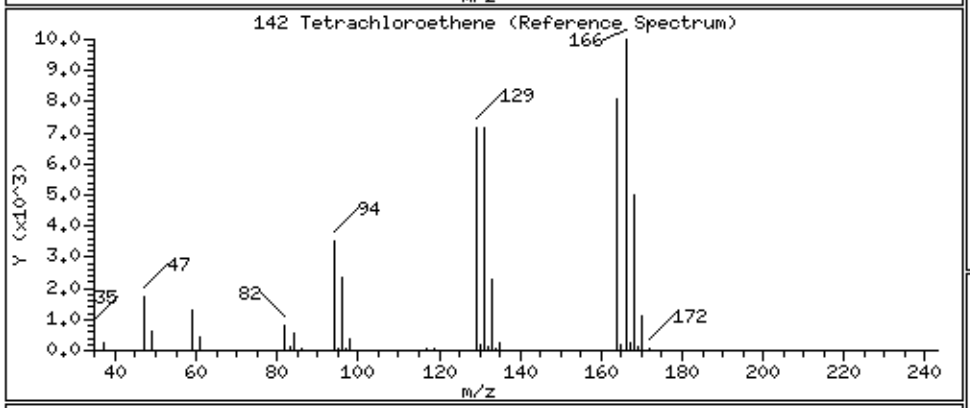
Concentration: 5.789 PPBV

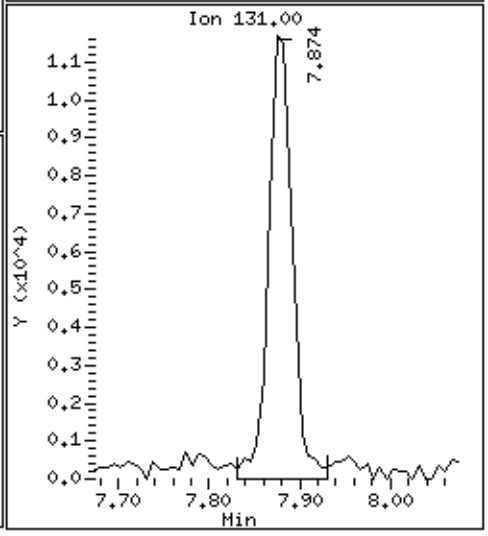


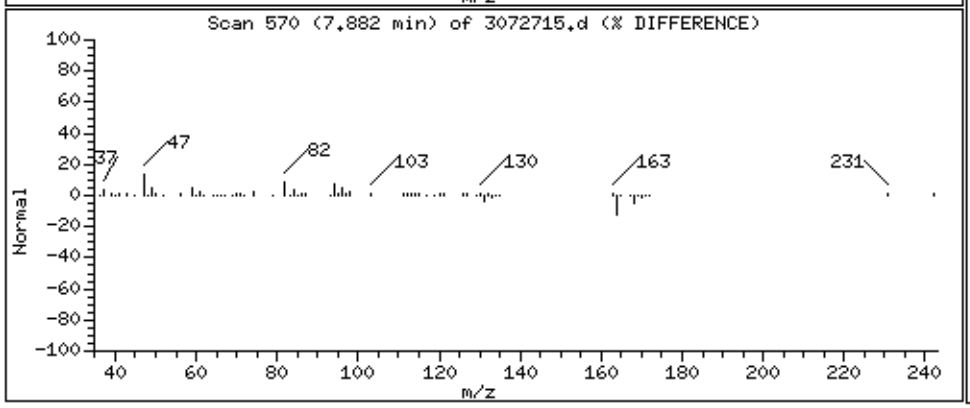












QC Results and Raw Data

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Client Sample ID: Lab Blank

Lab ID#: 2107284-27A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3072608a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/26/21 02:16 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1,2-Tetrachloroethane	2.0	Not Detected	14	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
1,1-Difluoroethane	2.0	Not Detected	5.4	Not Detected
1,2,3-Trichloropropane	2.0	Not Detected	12	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2-Dibromo-3-chloropropane	2.0	Not Detected	19	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	Not Detected	5.9	Not Detected
2-Hexanone	2.0	Not Detected	8.2	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Acetone	5.0	Not Detected	12	Not Detected
Acrolein	2.0	Not Detected	4.6	Not Detected
Acrylonitrile	2.0	Not Detected	4.3	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Carbon Disulfide	2.0	Not Detected	6.2	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Chloroethane	2.0	Not Detected	5.3	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
Chloromethane	5.0	Not Detected	10	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected

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Client Sample ID: Lab Blank

Lab ID#: 2107284-27A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3072608a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/26/21 02:16 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
Dibromomethane	2.0	Not Detected	14	Not Detected
Ethanol	5.0	Not Detected	9.4	Not Detected
Ethyl Acetate	2.0	Not Detected	7.2	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
Ethyl-tert-butyl ether	2.0	Not Detected	8.4	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Freon 134a	2.0	Not Detected	8.3	Not Detected
Heptane	0.50	Not Detected	2.0	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected
Hexachloroethane	2.0	Not Detected	19	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
Iodomethane	5.0	Not Detected	29	Not Detected
Isopropyl ether	2.0	Not Detected	8.4	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
Methyl tert-butyl ether	2.0	Not Detected	7.2	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
Naphthalene	1.0	Not Detected	5.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Propylbenzene	0.50	Not Detected	2.4	Not Detected
Propylene	2.0	Not Detected	3.4	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
tert-Amyl methyl ether	2.0	Not Detected	8.4	Not Detected
tert-Butyl alcohol	2.0	Not Detected	6.1	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
TPH ref. to Gasoline (MW=100)	50	Not Detected	200	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
Vinyl Acetate	2.0	Not Detected	7.0	Not Detected
Vinyl Bromide	2.0	Not Detected	8.7	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected

Container Type: NA - Not Applicable

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Client Sample ID: Lab Blank

Lab ID#: 2107284-27A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3072608a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/26/21 02:16 PM**	

Surrogates	%Recovery	Method Limits
Toluene-d8	95	70-130
1,2-Dichloroethane-d4	98	70-130
4-Bromofluorobenzene	95	70-130

US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msd3.i/26JUL21.b/3072608a.d
Lab Smp Id: Lab Blank Client Smp ID: Lab Blank
Inj Date : 26-JUL-2021 14:16
Operator : LD Inst ID: msd3.i
Smp Info : 200mL 34353
Misc Info : Humid
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msd3.i/26JUL21.b/321q0622a.m
Meth Date : 26-Jul-2021 13:22 lk8g Quant Type: ISTD
Cal Date : 23-JUN-2021 00:09 Cal File: 3062223.d
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AEC25677.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE		(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 90 Bromochloromethane							CAS #: 74-97-5	
5.284	5.284 (1.000)	130	255553	25.0000			80.00- 120.00	100.00
5.284	5.284 (1.000)	128	201396				48.46- 108.46	78.81
5.284	5.270 (1.000)	49	356859				120.39- 180.39	139.64
* 108 1,4-Difluorobenzene							CAS #: 540-36-3	
6.166	6.166 (1.000)	114	858597	25.0000			80.00- 120.00	100.00
6.166	6.166 (1.000)	88	124737				0.00- 45.52	14.53
* 153 Chlorobenzene-d5							CAS #: 3114-55-4	
8.612	8.612 (1.000)	117	759011	25.0000			80.00- 120.00	100.00
8.619	8.612 (1.000)	82	393072				25.46- 85.46	51.79
$ 104 1,2-Dichloroethane-d4							CAS #: 17060-07-0	
5.816	5.816 (1.101)	65	343607	24.4328	24.433		80.00- 120.00	100.00
5.816	5.816 (1.101)	67	166556				21.66- 81.66	48.47
$ 134 Toluene-d8							CAS #: 2037-26-5	
7.387	7.387 (1.198)	98	836392	23.6508	23.651		80.00- 120.00	100.00
7.387	7.380 (1.198)	70	90897				0.00- 41.47	10.87

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 134 Toluene-d8 (continued)							
7.387	7.387 (1.198)	100	555136			36.47- 96.47	66.37
$ 170 4-Bromofluorobenzene					CAS #: 460-00-4		
9.601	9.601 (1.115)	174	476880	23.7535	23.754	80.00- 120.00	100.00
9.601	9.601 (1.115)	95	535324			93.06- 153.06	112.26
9.601	9.601 (1.115)	176	441455			62.87- 122.87	92.57

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd3.i
Lab File ID: 3072608a.d
Lab Smp Id: Lab Blank
Analysis Type: VOA
Quant Type: ISTD
Operator: LD
Method File: /chem/msd3.i/26JUL21.b/321q0622a.m
Misc Info: Humid

Calibration Date: 26-JUL-2021
Calibration Time: 10:10
Client Smp ID: Lab Blank
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	263983	158390	369576	255553	-3.19
108 1,4-Difluorobenze	833448	500069	1166827	858597	3.02
153 Chlorobenzene-d5	741338	444803	1037873	759011	2.38

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.28	4.95	5.61	5.28	0.00
108 1,4-Difluorobenze	6.17	5.84	6.50	6.17	0.00
153 Chlorobenzene-d5	8.61	8.28	8.94	8.61	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 26-Jul-2021 14:41

US32TAR1

RECOVERY REPORT

Client Name: Client SDG: 26JUL21
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: Lab Blank Client Smp ID: Lab Blank
Level: LOW Operator: LD
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT20_new.spk Quant Type: ISTD
Sublist File: AEC25677.sub
Method File: /chem/msd3.i/26JUL21.b/321q0622a.m
Misc Info: Humid

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 104 1,2-Dichloroethan	25.000	24.433	97.73	70-130
$ 134 Toluene-d8	25.000	23.651	94.60	70-130
$ 170 4-Bromofluorobenz	25.000	23.754	95.01	70-130

Data File: /chem/msd3.i/26JUL21.b/3072608a.d

Date : 26-JUL-2021 14:16

Client ID: Lab Blank

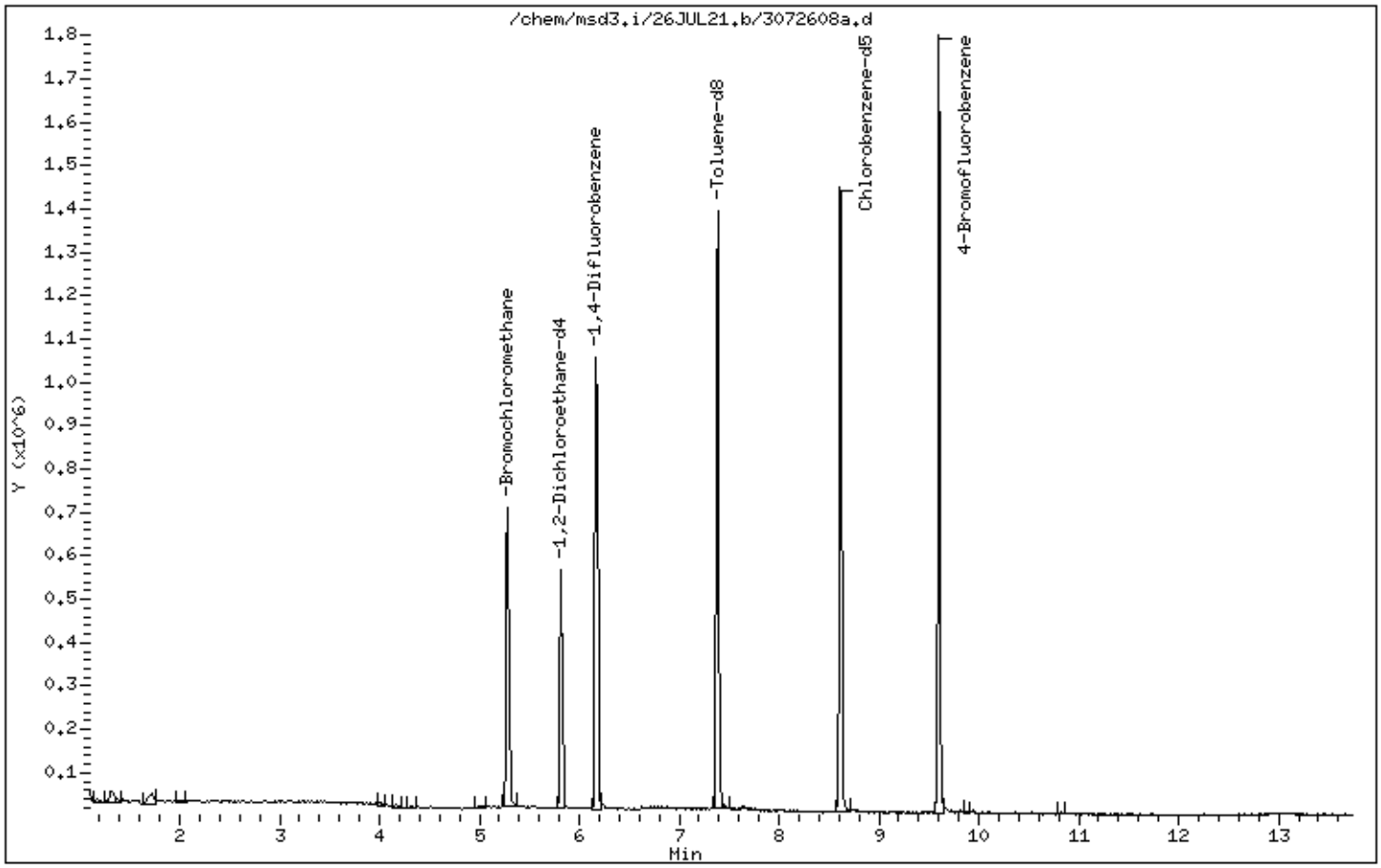
Instrument: msd3.i

Sample Info: 200mL 34353

Operator: LD

Column phase: RTX-624

Column diameter: 0.25



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Client Sample ID: Lab Blank

Lab ID#: 2107284-27B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3072709a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/27/21 03:47 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1,2-Tetrachloroethane	2.0	Not Detected	14	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
1,1-Difluoroethane	2.0	Not Detected	5.4	Not Detected
1,2,3-Trichloropropane	2.0	Not Detected	12	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2-Dibromo-3-chloropropane	2.0	Not Detected	19	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	Not Detected	5.9	Not Detected
2-Hexanone	2.0	Not Detected	8.2	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Acetone	5.0	Not Detected	12	Not Detected
Acrolein	2.0	Not Detected	4.6	Not Detected
Acrylonitrile	2.0	Not Detected	4.3	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Carbon Disulfide	2.0	Not Detected	6.2	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Chloroethane	2.0	Not Detected	5.3	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
Chloromethane	5.0	Not Detected	10	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected

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Client Sample ID: Lab Blank

Lab ID#: 2107284-27B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3072709a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/27/21 03:47 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
Dibromomethane	2.0	Not Detected	14	Not Detected
Ethanol	5.0	Not Detected	9.4	Not Detected
Ethyl Acetate	2.0	Not Detected	7.2	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
Ethyl-tert-butyl ether	2.0	Not Detected	8.4	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Freon 134a	2.0	Not Detected	8.3	Not Detected
Heptane	0.50	Not Detected	2.0	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected
Hexachloroethane	2.0	Not Detected	19	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
Iodomethane	5.0	Not Detected	29	Not Detected
Isopropyl ether	2.0	Not Detected	8.4	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
Methyl tert-butyl ether	2.0	Not Detected	7.2	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
Naphthalene	1.0	Not Detected	5.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Propylbenzene	0.50	Not Detected	2.4	Not Detected
Propylene	2.0	Not Detected	3.4	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
tert-Amyl methyl ether	2.0	Not Detected	8.4	Not Detected
tert-Butyl alcohol	2.0	Not Detected	6.1	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
TPH ref. to Gasoline (MW=100)	50	Not Detected	200	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
Vinyl Acetate	2.0	Not Detected	7.0	Not Detected
Vinyl Bromide	2.0	Not Detected	8.7	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected

Container Type: NA - Not Applicable

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Client Sample ID: Lab Blank

Lab ID#: 2107284-27B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3072709a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/27/21 03:47 PM**	

Surrogates	%Recovery	Method Limits
Toluene-d8	88	70-130
1,2-Dichloroethane-d4	102	70-130
4-Bromofluorobenzene	96	70-130

US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msd3.i/27JUL21.b/3072709a.d
Lab Smp Id: Lab Blank Client Smp ID: Lab Blank
Inj Date : 27-JUL-2021 15:47
Operator : LD Inst ID: msd3.i
Smp Info : 200mL 34353
Misc Info : Humid
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msd3.i/27JUL21.b/321q0622a.m
Meth Date : 27-Jul-2021 15:31 lk8g Quant Type: ISTD
Cal Date : 23-JUN-2021 00:09 Cal File: 3062223.d
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AEC25677.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE		(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 90 Bromochloromethane							CAS #: 74-97-5	
5.284	5.284 (1.000)	130	272067	25.0000			80.00- 120.00	100.00
5.284	5.284 (1.000)	128	210963				48.46- 108.46	77.54
5.284	5.270 (1.000)	49	372693				120.39- 180.39	136.99
* 108 1,4-Difluorobenzene							CAS #: 540-36-3	
6.180	6.180 (1.000)	114	957155	25.0000			80.00- 120.00	100.00
6.166	6.180 (1.000)	88	142293				0.00- 45.52	14.87
* 153 Chlorobenzene-d5							CAS #: 3114-55-4	
8.612	8.612 (1.000)	117	785290	25.0000			80.00- 120.00	100.00
8.612	8.612 (1.000)	82	412756				25.46- 85.46	52.56
$ 104 1,2-Dichloroethane-d4							CAS #: 17060-07-0	
5.816	5.816 (1.101)	65	383698	25.6275	25.627		80.00- 120.00	100.00
5.816	5.816 (1.101)	67	183449				21.66- 81.66	47.81
$ 134 Toluene-d8							CAS #: 2037-26-5	
7.387	7.387 (1.195)	98	867753	22.0110	22.011		80.00- 120.00	100.00
7.387	7.387 (1.195)	70	96428				0.00- 41.47	11.11

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 134 Toluene-d8 (continued)							
7.387	7.387 (1.195)	100	575958			36.47- 96.47	66.37
$ 170 4-Bromofluorobenzene					CAS #: 460-00-4		
9.601	9.601 (1.115)	174	500278	24.0851	24.085	80.00- 120.00	100.00
9.601	9.601 (1.115)	95	563393			93.06- 153.06	112.62
9.601	9.601 (1.115)	176	459967			62.87- 122.87	91.94

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd3.i
Lab File ID: 3072709a.d
Lab Smp Id: Lab Blank
Analysis Type: VOA
Quant Type: ISTD
Operator: LD
Method File: /chem/msd3.i/27JUL21.b/321q0622a.m
Misc Info: Humid

Calibration Date: 27-JUL-2021
Calibration Time: 11:36
Client Smp ID: Lab Blank
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	238986	143392	334580	272067	13.84
108 1,4-Difluorobenze	785289	471173	1099405	957155	21.89
153 Chlorobenzene-d5	683596	410158	957034	785290	14.88

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.28	4.95	5.61	5.28	-0.00
108 1,4-Difluorobenze	6.18	5.85	6.51	6.18	-0.00
153 Chlorobenzene-d5	8.61	8.28	8.94	8.61	-0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 29-Jul-2021 13:24

US32TAR1

RECOVERY REPORT

Client Name: Client SDG: 27JUL21
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: Lab Blank Client Smp ID: Lab Blank
Level: LOW Operator: LD
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT20_new.spk Quant Type: ISTD
Sublist File: AEC25677.sub
Method File: /chem/msd3.i/27JUL21.b/321q0622a.m
Misc Info: Humid

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 104 1,2-Dichloroethan	25.000	25.627	102.51	70-130
$ 134 Toluene-d8	25.000	22.011	88.04	70-130
$ 170 4-Bromofluorobenz	25.000	24.085	96.34	70-130

Data File: /chem/msd3.i/27JUL21.b/3072709a.d

Date : 27-JUL-2021 15:47

Client ID: Lab Blank

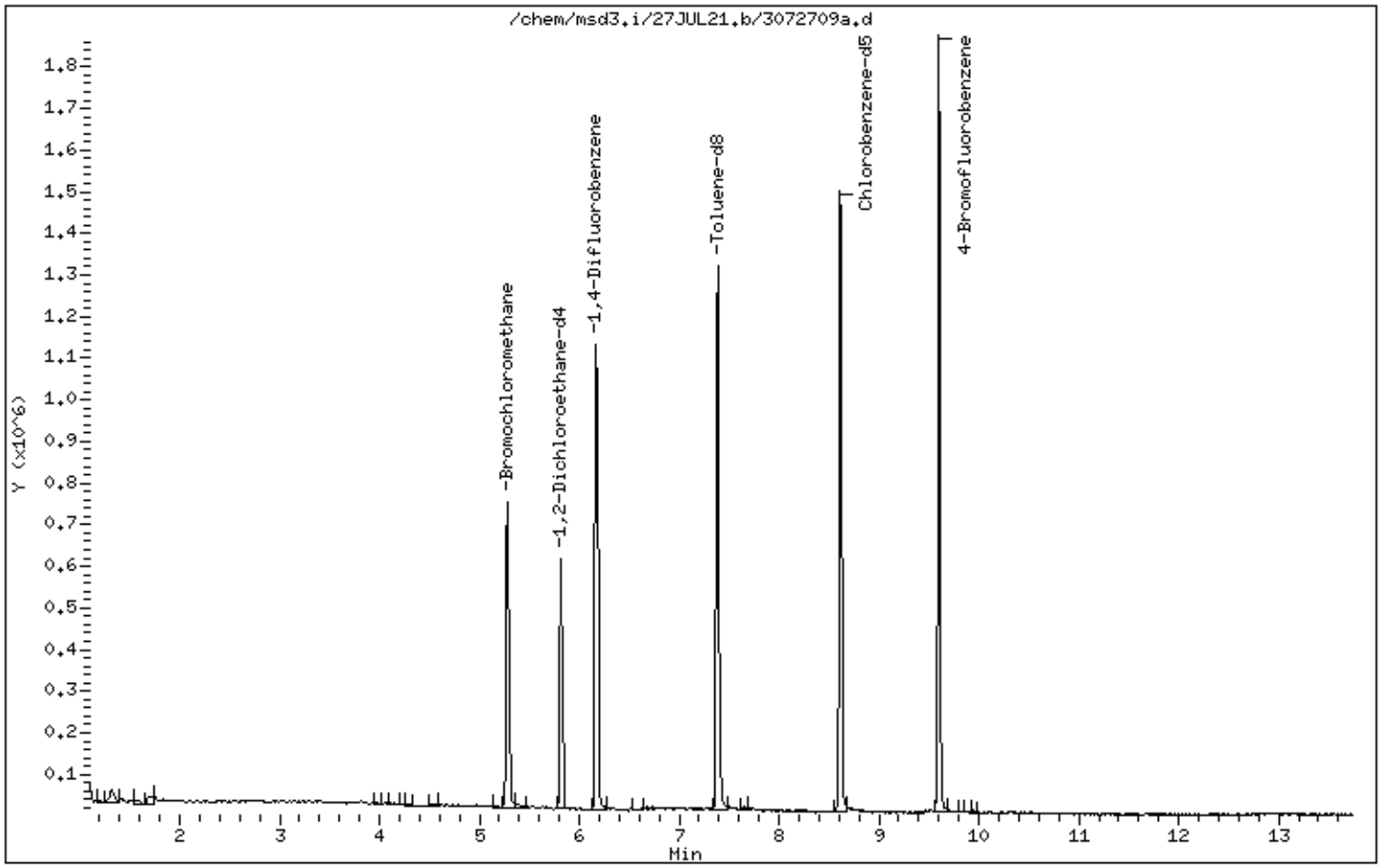
Instrument: msd3.i

Sample Info: 200mL 34353

Operator: LD

Column phase: RTX-624

Column diameter: 0.25



LEVEL-IV VALIDATABLE

MODIFIED EPA METHOD TO-15

SURROGATE RECOVERY FORM

Lab Name : Eurofins Air Toxics, LLC _____ SDG No. :2107284

	CLIENT SAMPLE NO.	SURROGATE % RECOVERY						
		1,2-Dichloroethane-d4	#	Toluene-d8	#	4-Bromofluorobenzene	#	TOTAL OUT
1	SG-VW57A-02	103		92		95		
2	SG-VW56B-02	98		95		95		
3	SG-VW56A-02	91		95		95		
4	SG-VW39B-02	98		96		95		
5	SG-VW39A-02	104		89		94		
6	SG-VW38B-03	94		101		94		
7	SG-VW38A-02	96		101		96		
8	SG-VW38A-03	96		96		94		
9	SG-VW15-02	96		94		97		
10	SG-VW15-03	99		97		94		
11	SG-VW33A-02	98		100		92		
12	SG-VW33B-02	98		95		95		
13	SG-VW34A-02	97		100		88		
14	SG-VW34A-03	95		96		93		
15	SG-VW34B-02	96		94		94		
16	SG-VW55B-02	97		95		94		
17	SG-VW60A-01	103		89		98		
18	SG-VW60B-01	98		89		98		
19	SG-VW54B-02	98		94		94		
20	SG-VW24B-02	95		98		92		
21	SG-VW58A-01	94		96		97		
22	SG-VW58B-01	99		95		98		
23	SG-VW23B-02	98		96		96		
24	SG-VW22A-02	96		97		94		
25	SG-VW22B-02	98		96		95		
26	SG-VW20A-02	94		101		93		
27	Lab Blank	98		95		95		
28	Lab Blank	102		88		96		
29	CCV	95		96		108		
30	CCV	97		96		108		
31	LCS	95		97		105		
32	LCSD	107		90		100		
33	LCS	100		92		101		
34	LCSD	99		93		99		

Surrogate Recovery Limits

1,2-Dichloroethane-d4	70 - 130
Toluene-d8	70 - 130

4-Bromofluorobenzene	70 - 130

* Designates Values Outside of QC limits

LEVEL-IV VALIDATABLE

MODIFIED EPA METHOD TO-15

INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name : Eurofins Air Toxics, LLC File ID: 3072602.d Date : 2021-07-26 10:10:00 SDG No. : 2107284

		Bromochloromethane	RT	1,4-Difluorobenzene	RT	Chlorobenzene-d5	RT
	24-HOUR CCV	263983	5.28	833448	6.17	741338	8.61
	UPPER LIMIT	369576	5.61	1166827	6.50	1037873	8.94
	LOWER LIMIT	158389	4.95	500068	5.84	444802	8.28
	CLIENT SAMPLE NO.						
1	SG-VW57A-02	242600	5.28	853349	6.18	731637	8.62
2	SG-VW56B-02	253852	5.28	877954	6.18	760464	8.61
3	SG-VW56A-02	263761	5.28	826121	6.18	736783	8.62
4	SG-VW39B-02	291710	5.28	967521	6.17	866593	8.61
5	SG-VW39A-02	229460	5.28	818801	6.18	677990	8.62
6	SG-VW38B-03	299708	5.27	972248	6.17	893423	8.61
7	SG-VW38A-02	223936	5.28	721096	6.18	655650	8.62
8	SG-VW38A-03	302092	5.27	992557	6.17	885330	8.61
9	SG-VW15-02	273053	5.28	868301	6.18	767029	8.61
10	SG-VW15-03	239694	5.28	811222	6.18	717699	8.62
11	SG-VW33A-02	233678	5.27	792586	6.17	737935	8.61
12	SG-VW33B-02	280054	5.28	930245	6.17	824737	8.61
13	SG-VW34A-02	213616	5.28	724580	6.18	671260	8.62
14	SG-VW34A-03	226058	5.28	718680	6.18	659768	8.62
15	SG-VW34B-02	292342	5.28	957918	6.17	911515	8.61
16	SG-VW55B-02	232873	5.28	751650	6.18	675437	8.62
17	SG-VW60A-01	237508	5.28	799627	6.18	663097	8.62
18	SG-VW60B-01	228555	5.28	802795	6.18	668523	8.62
19	SG-VW54B-02	265446	5.28	886857	6.17	787055	8.61
20	SG-VW24B-02	226843	5.28	724759	6.18	664237	8.62
21	Lab Blank	255553	5.28	858597	6.17	759011	8.61
22	CCV	263983	5.28	833448	6.17	741338	8.61
23	LCS	278488	5.28	900018	6.17	790831	8.61
24	LCSD	264503	5.28	983852	6.18	787648	8.61

Area Upper Limit = +40% of intenral standard area

Area Lower Limit = -40% of intenral standard area

RT Upper Limit = +0.33 minutes of internal standard RT

RT Lower Limit = -0.33 minutes of internal standard RT

* Designates Values Outside of QC limits

LEVEL-IV VALIDATABLE

MODIFIED EPA METHOD TO-15

INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name : Eurofins Air Toxics, LLC File ID: 3072703.d Date : 2021-07-27 11:36:00 SDG No. : 2107284

		Bromochloromethane	RT	1,4-Difluorobenzene	RT	Chlorobenzene-d5	RT
	24-HOUR CCV	238986	5.28	785289	6.18	683596	8.61
	UPPER LIMIT	334580	5.61	1099404	6.51	957034	8.94
	LOWER LIMIT	143391	4.95	471173	5.85	410157	8.28
	CLIENT SAMPLE NO.						
1	SG-VW58A-01	250502	5.27	830802	6.17	734750	8.61
2	SG-VW58B-01	258743	5.28	876809	6.18	780715	8.62
3	SG-VW23B-02	272846	5.28	912900	6.18	798407	8.62
4	SG-VW22A-02	253230	5.28	829096	6.17	762549	8.61
5	SG-VW22B-02	269144	5.28	896639	6.17	791630	8.61
6	SG-VW20A-02	224117	5.28	706428	6.18	659959	8.62
7	Lab Blank	272067	5.28	957155	6.18	785290	8.61
8	CCV	238986	5.28	785289	6.18	683596	8.61
9	LCS	250619	5.28	851577	6.18	720138	8.62
10	LCSD	243047	5.28	877445	6.18	719626	8.62

Area Upper Limit = +40% of intenral standard area

Area Lower Limit = -40% of intenral standard area

RT Upper Limit = +0.33 minutes of internal standard RT

RT Lower Limit = -0.33 minutes of internal standard RT

* Designates Values Outside of QC limits

SAMPLE RESULTS/SAMPLE RESULTS DUPLICATE

Lab File ID: 3072603a.d & 3072606a.d

Lab Sample ID: 29A & 29AA

CAS Number	Compound	Original Amount	Duplicate Amount	RPD	Result Less Than 5X RL
71-55-6	1,1,1-Trichloroethane	88	94	6.6	
79-34-5	1,1,2,2-Tetrachloroethane	97	97	0	
79-00-5	1,1,2-Trichloroethane	97	96	1.0	
75-34-3	1,1-Dichloroethane	92	93	1.1	
75-35-4	1,1-Dichloroethene	93	96	3.2	
120-82-1	1,2,4-Trichlorobenzene	105	116	10.0	
95-63-6	1,2,4-Trimethylbenzene	99	99	0	
106-93-4	1,2-Dibromoethane (EDB)	101	100	1.00	
95-50-1	1,2-Dichlorobenzene	101	103	2.0	
107-06-2	1,2-Dichloroethane	103	101	2.0	
78-87-5	1,2-Dichloropropane	83	74	11	
108-67-8	1,3,5-Trimethylbenzene	96	97	1.0	
106-99-0	1,3-Butadiene	98	102	4.0	
541-73-1	1,3-Dichlorobenzene	103	103	0	
106-46-7	1,4-Dichlorobenzene	102	102	0	
123-91-1	1,4-Dioxane	95	94	1.1	
540-84-1	2,2,4-Trimethylpentane	85	98	14	
78-93-3	2-Butanone (Methyl Ethyl Ketone)	95	95	0	
591-78-6	2-Hexanone	94	94	0	
67-63-0	2-Propanol	98	101	3.0	
107-05-1	3-Chloropropene	90	95	5.4	
622-96-8	4-Ethyltoluene	100	100	0	
108-10-1	4-Methyl-2-pentanone	83	79	4.9	
67-64-1	Acetone	96	97	1.0	
100-44-7	alpha-Chlorotoluene	95	94	1.1	
71-43-2	Benzene	100	98	2.0	
75-27-4	Bromodichloromethane	92	91	1.1	
75-25-2	Bromoform	114	106	7.3	
74-83-9	Bromomethane	98	103	5.0	
75-15-0	Carbon Disulfide	101	104	2.9	
56-23-5	Carbon Tetrachloride	96	106	9.9	
108-90-7	Chlorobenzene	98	98	0	
75-00-3	Chloroethane	99	100	1.0	
67-66-3	Chloroform	95	96	1.0	
74-87-3	Chloromethane	111	117	5.3	
156-59-2	cis-1,2-Dichloroethene	91	90	1.1	

10061-01-5	cis-1,3-Dichloropropene	91	87	4.5	
98-82-8	Cumene	103	96	7.0	
110-82-7	Cyclohexane	85	91	6.8	
124-48-1	Dibromochloromethane	105	104	0.96	
64-17-5	Ethanol	69	71	2.9	
100-41-4	Ethyl Benzene	100	99	1.0	
75-69-4	Freon 11	106	110	3.7	
76-13-1	Freon 113	100	104	3.9	
76-14-2	Freon 114	105	107	1.9	
75-71-8	Freon 12	102	105	2.9	
142-82-5	Heptane	90	89	1.1	
87-68-3	Hexachlorobutadiene	107	119	11	
110-54-3	Hexane	92	94	2.2	
108-38-3	m,p-Xylene	100	99	1.0	
1634-04-4	Methyl tert-butyl ether	92	96	4.3	
75-09-2	Methylene Chloride	96	97	1.0	
91-20-3	Naphthalene	79	89	12	Y
95-47-6	o-Xylene	101	96	5.1	
103-65-1	Propylbenzene	100	100	0	
115-07-1	Propylene	96	96	0	
100-42-5	Styrene	102	97	5.0	
127-18-4	Tetrachloroethene	104	103	0.97	
109-99-9	Tetrahydrofuran	89	84	5.8	
108-88-3	Toluene	94	84	11	
156-60-5	trans-1,2-Dichloroethene	88	91	3.4	
10061-02-6	trans-1,3-Dichloropropene	97	98	1.0	
79-01-6	Trichloroethene	97	96	1.0	
108-05-4	Vinyl Acetate	92	95	3.2	
75-01-4	Vinyl Chloride	103	110	6.6	

SAMPLE RESULTS/SAMPLE RESULTS DUPLICATE

Lab File ID: 3072704a.d & 3072705a.d

Lab Sample ID: 29B & 29BB

CAS Number	Compound	Original Amount	Duplicate Amount	RPD	Result Less Than 5X RL
71-55-6	1,1,1-Trichloroethane	90	90	0	
79-34-5	1,1,2,2-Tetrachloroethane	99	97	2.0	
79-00-5	1,1,2-Trichloroethane	97	96	1.0	
75-34-3	1,1-Dichloroethane	92	95	3.2	
75-35-4	1,1-Dichloroethene	93	97	4.2	
120-82-1	1,2,4-Trichlorobenzene	101	114	12	
95-63-6	1,2,4-Trimethylbenzene	104	98	5.9	
106-93-4	1,2-Dibromoethane (EDB)	100	101	1.00	
95-50-1	1,2-Dichlorobenzene	107	103	3.8	
107-06-2	1,2-Dichloroethane	101	96	5.1	
78-87-5	1,2-Dichloropropane	84	74	13	
108-67-8	1,3,5-Trimethylbenzene	100	97	3.0	
106-99-0	1,3-Butadiene	92	96	4.3	
541-73-1	1,3-Dichlorobenzene	107	104	2.8	
106-46-7	1,4-Dichlorobenzene	104	101	2.9	
123-91-1	1,4-Dioxane	90	94	4.3	
540-84-1	2,2,4-Trimethylpentane	93	89	4.4	
78-93-3	2-Butanone (Methyl Ethyl Ketone)	94	97	3.1	
591-78-6	2-Hexanone	92	94	2.2	
67-63-0	2-Propanol	98	102	4.0	
107-05-1	3-Chloropropene	93	96	3.2	
622-96-8	4-Ethyltoluene	100	98	2.0	
108-10-1	4-Methyl-2-pentanone	78	81	3.8	
67-64-1	Acetone	96	100	4.1	
100-44-7	alpha-Chlorotoluene	96	94	2.1	
71-43-2	Benzene	103	94	9.1	
75-27-4	Bromodichloromethane	88	89	1.1	
75-25-2	Bromoform	104	105	0.96	
74-83-9	Bromomethane	100	102	2.0	
75-15-0	Carbon Disulfide	103	105	1.9	
56-23-5	Carbon Tetrachloride	98	99	1.0	
108-90-7	Chlorobenzene	97	98	1.0	
75-00-3	Chloroethane	100	104	3.9	
67-66-3	Chloroform	94	94	0	
74-87-3	Chloromethane	113	116	2.6	
156-59-2	cis-1,2-Dichloroethene	89	91	2.2	

10061-01-5	cis-1,3-Dichloropropene	86	89	3.4	
98-82-8	Cumene	95	96	1.0	
110-82-7	Cyclohexane	86	87	1.2	
124-48-1	Dibromochloromethane	104	105	0.96	
64-17-5	Ethanol	71	74	4.1	
100-41-4	Ethyl Benzene	98	99	1.0	
75-69-4	Freon 11	106	109	2.8	
76-13-1	Freon 113	101	104	2.9	
76-14-2	Freon 114	105	108	2.8	
75-71-8	Freon 12	100	104	3.9	
142-82-5	Heptane	88	84	4.7	
87-68-3	Hexachlorobutadiene	105	117	11	
110-54-3	Hexane	91	95	4.3	
108-38-3	m,p-Xylene	98	98	0	
1634-04-4	Methyl tert-butyl ether	91	96	5.3	
75-09-2	Methylene Chloride	96	99	3.1	
91-20-3	Naphthalene	78	86	9.8	Y
95-47-6	o-Xylene	95	95	0	
103-65-1	Propylbenzene	102	98	4.0	
115-07-1	Propylene	94	100	6.2	
100-42-5	Styrene	95	95	0	
127-18-4	Tetrachloroethene	102	104	1.9	
109-99-9	Tetrahydrofuran	88	87	1.1	
108-88-3	Toluene	89	90	1.1	
156-60-5	trans-1,2-Dichloroethene	88	92	4.4	
10061-02-6	trans-1,3-Dichloropropene	95	96	1.0	
79-01-6	Trichloroethene	92	98	6.3	
108-05-4	Vinyl Acetate	93	96	3.2	
75-01-4	Vinyl Chloride	104	107	2.8	

US32TAR1

INITIAL CALIBRATION DATA

Start Cal Date : 22-JUN-2021 15:51
End Cal Date : 23-JUN-2021 00:09
Quant Method : ISTD
Origin : Disabled
Target Version : 3.60
Integrator : HP RTE
Method file : /chem/msd3.i/22JUN21.b/321q0622a.m
Cal Date : 23-Jun-2021 12:05 lk8g
Curve Type : Average

Calibration File Names:
Level 2: /chem/msd3.i/22JUN21.b/3062215.d
Level 3: /chem/msd3.i/22JUN21.b/3062216.d
Level 5: /chem/msd3.i/22JUN21.b/3062217.d
Level 6: /chem/msd3.i/22JUN21.b/3062218.d
Level 7: /chem/msd3.i/22JUN21.b/3062219.d
Level 8: /chem/msd3.i/22JUN21.b/3062220.d
Level 9: /chem/msd3.i/22JUN21.b/3062221.d
Level 10: /chem/msd3.i/22JUN21.b/3062222.d
Level 11: /chem/msd3.i/22JUN21.b/3062223.d

Compound	0.30000 Level 2	0.40000 Level 3	0.80000 Level 5	2.000 Level 6	5.000 Level 7	20.000 Level 8	___ RRF	% RSD
	50.000 Level 9	100.000 Level 10	200.000 Level 11					
1 Dimethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
2 1,1-Dichloro-1-Fluoroethane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
3 Freon 143a	+++++	+++++	+++++	0.39291	0.44265	0.44864		
	0.42230	0.41716	0.38549				0.41819	6.098
4 Freon 134a	+++++	+++++	0.63865	0.60478	0.59997	0.61448		
	0.58371	0.56637	0.55610				0.59487	4.787
5 Propylene	+++++	+++++	+++++	0.65170	0.58539	0.61293		
	0.60477	0.58759	0.58081				0.60387	4.387

US32TAR1

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Integrator : HP RTE
Method file : /chem/msd3.i/22JUN21.b/321q0622a.m
Cal Date : 23-Jun-2021 12:05 lk8g
Curve Type : Average

Compound	0.30000 Level 2	0.40000 Level 3	0.80000 Level 5	2.000 Level 6	5.000 Level 7	20.000 Level 8	___ RRF	% RSD
	50.000 Level 9	100.000 Level 10	200.000 Level 11					
6 Propane	+++++	+++++	+++++	0.25834	0.22661	0.22466		
	0.22548	0.21771	0.21415				0.22783	6.904
7 1,1-Difluoroethane	+++++	+++++	+++++	0.46192	0.39747	0.39789		
	0.37311	0.37063	0.36078				0.39363	9.318
8 Freon 12	+++++	2.15603	1.89816	1.71961	1.69339	1.70056		
	1.63747	1.60084	1.52621				1.74153	11.439
9 Chlorodifluoromethane	+++++	+++++	0.25854	0.19306	0.18741	0.18633		
	0.17510	0.17147	0.16789				0.19140	16.198
10 Freon 114	+++++	1.42810	1.34458	1.34985	1.29466	1.27769		
	1.24628	1.21706	1.16502				1.29040	6.461
11 Freon 14	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
12 Isobutane	+++++	+++++	1.34906	1.44535	1.36698	1.39313		
	1.34963	1.32626	1.27032				1.35725	4.011
13 Freon 142b	+++++	+++++	+++++	1.34756	1.29500	1.38610		
	1.35039	1.32331	1.27674				1.32985	3.004
14 Acetaldehyde	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++

US32TAR1

INITIAL CALIBRATION DATA

Start Cal Date : 22-JUN-2021 15:51
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Quant Method : ISTD
Origin : Disabled
Target Version : 3.60
Integrator : HP RTE
Method file : /chem/msd3.i/22JUN21.b/321q0622a.m
Cal Date : 23-Jun-2021 12:05 lk8g
Curve Type : Average

Compound	0.30000 Level 2	0.40000 Level 3	0.80000 Level 5	2.000 Level 6	5.000 Level 7	20.000 Level 8	___ RRF	% RSD
	50.000 Level 9	100.000 Level 10	200.000 Level 11					
15 Chloromethane	+++++	+++++	+++++	0.82763	0.72732	0.74182		
	0.72479	0.68082	0.64063				0.72383	8.712
16 Hexafluoropropene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
17 Freon 13	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
18 Butane	+++++	+++++	+++++	0.20113	0.23357	0.15790		
	0.15259	0.14406	0.13639				0.17094	22.286
19 Vinyl Chloride	+++++	1.12980	0.86470	0.78857	0.71677	0.70750		
	0.68973	0.65899	0.64054				0.77458	20.752
20 1,3-Butadiene	+++++	1.03243	0.84231	0.72895	0.69007	0.65005		
	0.60500	0.57217	0.55799				0.70987	22.523
21 Vinyl Fluoride	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
22 Ethylene Oxide	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
23 Methanol	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++

US32TAR1

INITIAL CALIBRATION DATA

Start Cal Date : 22-JUN-2021 15:51
End Cal Date : 23-JUN-2021 00:09
Quant Method : ISTD
Origin : Disabled
Target Version : 3.60
Integrator : HP RTE
Method file : /chem/msd3.i/22JUN21.b/321q0622a.m
Cal Date : 23-Jun-2021 12:05 lk8g
Curve Type : Average

Compound	0.30000 Level 2	0.40000 Level 3	0.80000 Level 5	2.000 Level 6	5.000 Level 7	20.000 Level 8	___ RRF	% RSD
	50.000 Level 9	100.000 Level 10	200.000 Level 11					
24 Bromomethane	+++++	+++++	+++++	0.67314	0.74066	0.57705		
	0.57021	0.57219	0.54233				0.61260	12.580
25 Isobutylene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
26 2-Butene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
27 trans-2-butene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
28 1-Butene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
29 cis-2-Butene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
30 Chloroethane	+++++	+++++	+++++	0.40138	0.37327	0.36736		
	0.35675	0.34449	0.33834				0.36360	6.254
31 Isopentane	+++++	+++++	+++++	0.99549	0.94525	0.97775		
	0.90728	0.88280	0.87022				0.92980	5.509
32 Vinyl Bromide	+++++	+++++	0.75093	0.69351	0.67421	0.66583		
	0.64939	0.62307	0.60538				0.66605	7.209

US32TAR1

INITIAL CALIBRATION DATA

Start Cal Date : 22-JUN-2021 15:51
End Cal Date : 23-JUN-2021 00:09
Quant Method : ISTD
Origin : Disabled
Target Version : 3.60
Integrator : HP RTE
Method file : /chem/msd3.i/22JUN21.b/321q0622a.m
Cal Date : 23-Jun-2021 12:05 lk8g
Curve Type : Average

Compound	0.30000 Level 2	0.40000 Level 3	0.80000 Level 5	2.000 Level 6	5.000 Level 7	20.000 Level 8	50.000 Level 9	100.000 Level 10	200.000 Level 11	___ RRF	% RSD
33 Freon 11	+++++	2.03908	1.88806	1.94469	1.86978	1.86503	1.76682	1.71424	1.65341	1.84264	6.814
34 Dichlorofluoromethane	+++++	+++++	1.56202	1.56160	1.45002	1.50906	1.46222	1.40697	1.35915	1.47301	5.188
35 Pentane	+++++	+++++	1.56512	1.57917	1.48190	1.50343	1.45505	1.40603	1.37871	1.48134	5.080
36 1-Pentene	+++++	+++++	+++++	0.84456	0.82508	0.86645	0.85550	0.84812	0.82750	0.84453	1.896
37 3-Methyl-1-butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
38 Ethyl Ether	+++++	+++++	0.39240	0.37333	0.33203	0.31725	0.30985	0.30127	0.29877	0.33213	11.071
39 Ethanol	+++++	+++++	+++++	0.20784	0.16584	0.13654	0.13230	0.12826	0.12362	0.14907	21.746
40 Freon 123a	+++++	+++++	+++++	0.98582	0.95494	1.02622	0.99781	0.98345	0.95217	0.98340	2.815
41 Freon 123	+++++	+++++	+++++	1.44622	1.42044	1.49355	1.45220	1.44145	1.40015	1.44234	2.192

US32TAR1

INITIAL CALIBRATION DATA

Start Cal Date : 22-JUN-2021 15:51
End Cal Date : 23-JUN-2021 00:09
Quant Method : ISTD
Origin : Disabled
Target Version : 3.60
Integrator : HP RTE
Method file : /chem/msd3.i/22JUN21.b/321q0622a.m
Cal Date : 23-Jun-2021 12:05 lk8g
Curve Type : Average

Compound	0.30000 Level 2	0.40000 Level 3	0.80000 Level 5	2.000 Level 6	5.000 Level 7	20.000 Level 8	___ RRF	% RSD
	50.000 Level 9	100.000 Level 10	200.000 Level 11					
42 Acrolein	+++++	+++++	+++++	0.27311	0.23701	0.24881		
	0.24693	0.24379	0.23457				0.24737	5.569
43 Freon 113	+++++	1.46824	1.31921	1.29076	1.21478	1.29651		
	1.19339	1.15481	1.13941				1.25964	8.552
44 1,1-Dichloroethene	+++++	0.99526	0.88651	0.79755	0.71745	0.69929		
	0.67490	0.65436	0.64436				0.75871	16.524
45 2-Chloropropane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
46 2,3-Dimethylbutane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
47 Acetone	+++++	+++++	+++++	0.51469	0.44425	0.40084		
	0.39639	0.38588	0.37313				0.41920	12.549
48 Carbon Disulfide	+++++	+++++	+++++	2.05775	1.93862	1.90843		
	1.84826	1.80791	1.76509				1.88768	5.551
49 Iodomethane	+++++	+++++	+++++	1.65946	1.28082	1.88529		
	1.79371	1.63354	1.54101				1.63230	12.928
50 Isoprene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++

US32TAR1

INITIAL CALIBRATION DATA

Start Cal Date : 22-JUN-2021 15:51
End Cal Date : 23-JUN-2021 00:09
Quant Method : ISTD
Origin : Disabled
Target Version : 3.60
Integrator : HP RTE
Method file : /chem/msd3.i/22JUN21.b/321q0622a.m
Cal Date : 23-Jun-2021 12:05 lk8g
Curve Type : Average

Compound	0.30000 Level 2	0.40000 Level 3	0.80000 Level 5	2.000 Level 6	5.000 Level 7	20.000 Level 8	RRF	% RSD
	50.000 Level 9	100.000 Level 10	200.000 Level 11					
51 2-Methyl-2-butene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
52 2-Propanol	+++++	+++++	+++++	1.55257	1.52862	1.55402		
	1.52396	1.47517	1.41118				1.50759	3.661
53 trans-2-Pentene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
54 3-Chloropropene	+++++	+++++	0.40376	0.34789	0.32210	0.30733		
	0.29846	0.29912	0.29628				0.32499	12.080
55 Cyclopentene	+++++	+++++	+++++	1.54893	1.47899	1.57264		
	1.55307	1.55116	1.50686				1.53527	2.280
56 Methyl Acetate	+++++	+++++	+++++	1.66411	1.65826	1.56879		
	1.56601	1.54169	1.49440				1.58221	4.220
57 Acetonitrile	+++++	+++++	+++++	0.70457	0.66923	0.66054		
	0.65603	0.63131	0.63893				0.66010	3.924
58 cis-2-Pentene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
59 Methylene Chloride	+++++	+++++	+++++	1.12275	1.03732	1.01485		
	0.96969	0.94713	0.92775				1.00325	7.126

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Cal Date : 23-Jun-2021 12:05 lk8g
Curve Type : Average

Compound	0.30000 Level 2	0.40000 Level 3	0.80000 Level 5	2.000 Level 6	5.000 Level 7	20.000 Level 8	50.000 Level 9	100.000 Level 10	200.000 Level 11	___ RRF	% RSD
60 Cyclopentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
61 1,2-Dichloro-1-fluoroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
62 tert-Butyl alcohol	+++++	+++++	+++++	2.06813	1.88426	1.96728	1.85902	1.80438	1.77065	1.89229	5.801
63 Methyl tert-butyl ether	+++++	+++++	2.33752	2.14499	2.05012	2.08189	1.95664	1.88244	1.84330	2.04241	8.286
64 trans-1,2-Dichloroethene	+++++	0.70810	0.61753	0.51542	0.47696	0.45306	0.44165	0.43998	0.43195	0.51058	19.702
65 2,2-Dimethylbutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
66 Acrylonitrile	+++++	0.94125	0.68377	0.65726	0.53958	0.52132	0.52644	0.51492	0.51761	0.61277	24.262
67 Hexane	+++++	1.64886	1.36501	1.39813	1.34449	1.35927	1.33134	1.31741	1.31083	1.38442	7.980
68 1-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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Cal Date : 23-Jun-2021 12:05 lk8g
Curve Type : Average

Compound	0.30000 Level 2	0.40000 Level 3	0.80000 Level 5	2.000 Level 6	5.000 Level 7	20.000 Level 8	50.000 Level 9	100.000 Level 10	200.000 Level 11	___ RRF	% RSD
69 Bromoethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
70 4-Methyl-1-pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
71 1,1-Dichloroethane	1.65400	1.53910	1.44790	1.45129	1.40169	1.35543	1.34743	1.31085	1.30599	1.42374	8.056
72 Isopropyl ether	+++++	+++++	+++++	3.03891	2.92537	3.07842	2.89703	2.82512	2.76512	2.92166	4.129
73 Vinyl Acetate	+++++	+++++	+++++	0.20069	0.17412	0.16618	0.17310	0.16880	0.16735	0.17504	7.401
74 Chloroprene	+++++	+++++	+++++	1.32729	1.31878	1.36187	1.37195	1.35051	1.30853	1.33982	1.892
75 1-Propanol	+++++	+++++	+++++	0.27964	0.21494	0.19133	0.18786	0.18713	0.18191	0.20714	18.032
76 2-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
77 3-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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Curve Type : Average

Compound	0.30000 Level 2	0.40000 Level 3	0.80000 Level 5	2.000 Level 6	5.000 Level 7	20.000 Level 8	50.000 Level 9	100.000 Level 10	200.000 Level 11	___ RRF	% RSD
78 1-Chloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
79 Ethyl-tert-butyl ether	+++++	+++++	+++++	3.00888	2.84283	2.90543	2.77800	2.71606	2.67248	2.82061	4.423
80 2-Methyl-1-pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
81 2,4-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
82 2,3-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
83 tert-Butyl chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
84 2,2-Dichloropropane	+++++	+++++	1.41174	1.38403	1.34012	1.35294	1.30280	1.25609	1.23673	1.32635	4.871
85 cis-1,2-Dichloroethene	+++++	0.63031	0.57390	0.54892	0.48648	0.45435	0.45262	0.45380	0.44869	0.50614	13.731
86 2-Butanone	+++++	+++++	+++++	0.37903	0.37296	0.35087	0.34136	0.34189	0.33506	0.35353	5.154

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Cal Date : 23-Jun-2021 12:05 lk8g
Curve Type : Average

Compound	0.30000 Level 2	0.40000 Level 3	0.80000 Level 5	2.000 Level 6	5.000 Level 7	20.000 Level 8	___ RRF	% RSD
	50.000 Level 9	100.000 Level 10	200.000 Level 11					
87 Ethyl Acetate	+++++	+++++	+++++	0.27562	0.29852	0.29822		
	0.29575	0.29213	0.28844				0.29145	2.969
88 Methyl Acrylate	+++++	+++++	+++++	1.66838	1.64750	1.58199		
	1.61233	1.60036	1.55070				1.61021	2.666
89 Tetrahydrofuran	+++++	1.07008	1.00292	1.04787	1.00636	0.97799		
	0.96310	0.95636	0.95055				0.99690	4.384
91 trans-2-Hexene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
92 Chloroform	1.96521	1.64019	1.50840	1.61041	1.49476	1.50595		
	1.48492	1.45775	1.43932				1.56743	10.414
93 cis-2-Hexene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
94 Cyclohexane	+++++	1.22023	1.07215	1.01365	0.93034	0.97861		
	0.91761	0.90108	0.89226				0.99074	11.233
95 Methylcyclopentane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
96 1,1,1-Trichloroethane	2.23129	2.05048	1.81091	1.75915	1.67257	1.67685		
	1.59247	1.55264	1.51015				1.76184	13.567

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Curve Type : Average

Compound	0.30000 Level 2	0.40000 Level 3	0.80000 Level 5	2.000 Level 6	5.000 Level 7	20.000 Level 8	___ RRF	% RSD
	50.000 Level 9	100.000 Level 10	200.000 Level 11					
97 Carbon Tetrachloride	+++++	1.84434	1.51851	1.59602	1.58811	1.68095		
	1.61629	1.57619	1.56099				1.62268	6.219
98 sec-Butyl chloride	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
99 1,1-Dichloropropene	+++++	+++++	0.12119	0.11613	0.11694	0.11346		
	0.11216	0.11077	0.10576				0.11377	4.342
100 2,3,4-Trimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
101 2,2,4-Trimethylpentane	+++++	4.78156	4.38481	4.33179	4.21293	4.42535		
	4.25264	4.15467	4.09124				4.32938	4.965
102 Benzene	+++++	0.65505	0.59983	0.57117	0.55674	0.56004		
	0.55416	0.54394	0.52302				0.57049	7.116
103 Isobutanol	+++++	+++++	+++++	0.49942	0.37776	0.23624		
	0.22752	0.22265	0.21185				0.29591	39.638 <-
105 tert-Amyl methyl ether	+++++	+++++	+++++	0.15923	0.15616	0.15814		
	0.15062	0.14634	0.14220				0.15212	4.528
106 1,2-Dichloroethane	+++++	0.37902	0.34806	0.33618	0.32981	0.31718		
	0.31483	0.30818	0.29434				0.32845	8.047

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Curve Type : Average

Compound	0.30000 Level 2	0.40000 Level 3	0.80000 Level 5	2.000 Level 6	5.000 Level 7	20.000 Level 8	___ RRF	% RSD	
	50.000 Level 9	100.000 Level 10	200.000 Level 11						
107 Heptane	+++++	0.33792	0.22403	0.20766	0.20608	0.21729			
	0.20793	0.20256	0.19418				0.22471	20.747	
109 Butanal	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	
110 n-Butanol	+++++	+++++	+++++	0.18934	0.19071	0.17762			
	0.18239	0.18056	0.17653				0.18286	3.250	
111 Trichloroethene	+++++	0.31117	0.32769	0.29118	0.27710	0.27541			
	0.27509	0.27051	0.26149				0.28620	7.868	
112 Isobutyl chloride	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	
113 Ethyl acrylate	+++++	+++++	+++++	0.04509	0.04589	0.03861			
	0.03720	0.03653	0.03639				0.03995	10.936	
114 1,2-Dichloropropane	+++++	0.20680	0.17987	0.15597	0.12037	0.11612			
	0.09207	0.10091	0.08582				0.13224	33.260	<-
115 2-Pentanone	+++++	+++++	+++++	1.11388	1.03670	0.82493			
	0.89586	0.87342	0.86203				0.93447	12.211	
116 Methyl Methacrylate	+++++	+++++	0.29806	0.23701	0.23039	0.23977			
	0.22896	0.22635	0.22363				0.24060	10.793	

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	50.000 Level 9	100.000 Level 10	200.000 Level 11					
117 1,4-Dioxane	+++++	+++++	0.15020	0.15052	0.14901	0.14603		
	0.14111	0.13926	0.13549				0.14452	4.109
118 Dibromomethane	+++++	0.29449	0.28101	0.26147	0.26360	0.26460		
	0.26313	0.26053	0.25477				0.26795	4.885
119 Methacrylonitrile	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
120 2-Chloropentane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
121 2-Butanol	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
122 Bromodichloromethane	0.55191	0.57875	0.48462	0.47042	0.45398	0.45550		
	0.44937	0.44453	0.42613				0.47947	10.789
123 1-Bromopropane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
124 Chloroacetonitrile	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
125 n-Butylchloride	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++

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Compound	0.30000 Level 2	0.40000 Level 3	0.80000 Level 5	2.000 Level 6	5.000 Level 7	20.000 Level 8	___ RRF	% RSD
	50.000 Level 9	100.000 Level 10	200.000 Level 11					
126 cis-1,3-Dichloropropene	+++++	0.38484	0.36508	0.35464	0.35120	0.35787		
	0.35615	0.34711	0.33406				0.35637	4.110
127 Methylcyclohexane	+++++	0.49350	0.42088	0.37921	0.35673	0.37356		
	0.35568	0.34798	0.33420				0.38272	13.539
128 Thiophene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
129 2-Methylhexane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
130 3-Methylhexane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
131 4-Methyl-2-pentanone	+++++	0.33023	0.25196	0.22701	0.22484	0.23852		
	0.22744	0.22179	0.21673				0.24232	15.340
132 Cyclohexene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
135 1-Methoxy-2-propanol	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
136 Octane	+++++	0.29765	0.26256	0.24020	0.24794	0.26178		
	0.24913	0.24264	0.23554				0.25468	7.792

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Compound	0.30000 Level 2	0.40000 Level 3	0.80000 Level 5	2.000 Level 6	5.000 Level 7	20.000 Level 8	___ RRF	% RSD
	50.000 Level 9	100.000 Level 10	200.000 Level 11					
137 Toluene	+++++	0.91701	0.76758	0.75540	0.74698	0.77174		
	0.74467	0.72579	0.69469				0.76548	8.619
138 1-Heptene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
139 trans-1,3-Dichloropropene	+++++	0.40687	0.37993	0.36744	0.35787	0.37172		
	0.35844	0.35616	0.34723				0.36821	5.063
140 2,3-Dichloro-1-propene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
141 1,1,2-Trichloroethane	+++++	0.34720	0.29011	0.27882	0.27255	0.28256		
	0.26991	0.26544	0.25880				0.28317	9.776
142 Tetrachloroethene	+++++	0.43410	0.40731	0.38596	0.38515	0.39520		
	0.37964	0.37852	0.36735				0.39165	5.322
143 2-Hexanone	+++++	+++++	+++++	0.31990	0.32699	0.34401		
	0.32729	0.32069	0.31273				0.32527	3.269
144 1,3-Dichloropropane	+++++	0.41984	0.38640	0.36235	0.35686	0.36795		
	0.35318	0.34457	0.33063				0.36522	7.523
145 Butyl Acetate	+++++	+++++	+++++	0.37428	0.36225	0.32044		
	0.30786	0.30617	0.30638				0.32956	9.311

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	50.000 Level 9	100.000 Level 10	200.000 Level 11					
146 Dibromochloromethane	+++++	0.56921	0.54488	0.53586	0.51292	0.55310		
	0.53597	0.52826	0.51753				0.53722	3.444
147 Bromodichloroethene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
148 1,2-Dibromoethane (EDB)	+++++	0.48087	0.43657	0.44243	0.43273	0.44944		
	0.43280	0.42753	0.41566				0.43975	4.407
149 2-Methylheptane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
150 3-Methylheptane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
151 1-Bromo-2-Chloroethane	+++++	+++++	+++++	0.47903	0.47277	0.46515		
	0.46257	0.45698	0.43971				0.46270	2.956
152 Diethyl Ketone	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
154 Chlorobenzene	0.76910	0.74560	0.72064	0.66663	0.65193	0.68685		
	0.65267	0.63792	0.61813				0.68328	7.526
155 Ethyl Benzene	+++++	0.36451	0.34530	0.34543	0.34070	0.35619		
	0.33501	0.32785	0.31833				0.34167	4.342

US32TAR1

INITIAL CALIBRATION DATA

Start Cal Date : 22-JUN-2021 15:51
End Cal Date : 23-JUN-2021 00:09
Quant Method : ISTD
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Target Version : 3.60
Integrator : HP RTE
Method file : /chem/msd3.i/22JUN21.b/321q0622a.m
Cal Date : 23-Jun-2021 12:05 lk8g
Curve Type : Average

Compound	0.30000 Level 2	0.40000 Level 3	0.80000 Level 5	2.000 Level 6	5.000 Level 7	20.000 Level 8	___ RRF	% RSD
	50.000 Level 9	100.000 Level 10	200.000 Level 11					
156 Nonane	+++++	+++++	0.71920	0.66701	0.64345	0.70654		
	0.66135	0.63353	0.60456				0.66223	6.082
157 1,1,1,2-Tetrachloroethane	+++++	0.44284	0.37328	0.35539	0.34747	0.39755		
	0.37098	0.36365	0.35719				0.37604	8.233
158 m,p-Xylene	+++++	0.48145	0.44650	0.41386	0.40778	0.43652		
	0.41628	0.40382	0.39426				0.42506	6.697
159 2-Nitropropane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
160 bis(chloromethyl) Ether	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
161 1-Octene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
162 Epichlorohydrin	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
163 2-Chloroethyl Vinyl Ether	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
164 o-Xylene	+++++	0.45314	0.40808	0.39628	0.38390	0.42267		
	0.39648	0.38811	0.37953				0.40353	6.034

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Curve Type : Average

Compound	0.30000 Level 2	0.40000 Level 3	0.80000 Level 5	2.000 Level 6	5.000 Level 7	20.000 Level 8	RRF	% RSD
	50.000 Level 9	100.000 Level 10	200.000 Level 11					
165 Styrene	+++++	0.76486	0.73265	0.66912	0.66488	0.73099		
	0.69299	0.67552	0.66197				0.69912	5.542
166 2-Heptanone	+++++	+++++	+++++	2.07850	2.02853	1.76276		
	1.72790	1.71667	1.69635				1.83512	9.333
167 Bromoform	+++++	0.55582	0.49485	0.49209	0.48297	0.52943		
	0.51178	0.50891	0.49935				0.50940	4.617
168 Cumene	+++++	1.46347	1.32018	1.25126	1.24254	1.33307		
	1.24859	1.20423	1.14310				1.27581	7.591
169 Cyclohexanone	+++++	+++++	0.49888	0.43341	0.38419	0.39800		
	0.37159	0.36798	0.35640				0.40149	12.398
171 Vinyl Cyclohexene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
172 D-Limonene	+++++	+++++	+++++	0.41613	0.42102	0.48642		
	0.47452	0.46711	0.46003				0.45421	6.383
173 Ethyl Methacrylate	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
174 1-Chloro-2-Bromopropane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++

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Curve Type : Average

Compound	0.30000 Level 2	0.40000 Level 3	0.80000 Level 5	2.000 Level 6	5.000 Level 7	20.000 Level 8	50.000 Level 9	100.000 Level 10	200.000 Level 11	___ RRF	% RSD
175 1,1,2,2-Tetrachloroethane	+++++	0.73988	0.66457	0.63414	0.60752	0.65052	0.60387	0.58908	0.57075	0.63254	8.456
176 1-Nitropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
177 Bromobenzene	+++++	+++++	0.41758	0.39469	0.38831	0.42203	0.39264	0.38566	0.37533	0.39660	4.303
178 Propylbenzene	+++++	1.63248	1.52426	1.49879	1.44291	1.59042	1.47490	1.41973	1.32553	1.48863	6.526
179 1,2,3-Trichloropropane	+++++	0.21832	0.19260	0.18821	0.18486	0.19859	0.18622	0.18030	0.17525	0.19054	6.973
180 Bromodichloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
181 trans-1,4-Dichloro-2-butene	+++++	+++++	0.17894	0.15447	0.14080	0.15603	0.14575	0.14239	0.13704	0.15077	9.452
182 Decane	+++++	+++++	0.82127	0.78301	0.76466	0.82898	0.76049	0.73340	0.69627	0.76973	6.087
183 4-Ethyltoluene	+++++	0.44626	0.38352	0.38395	0.37080	0.40565	0.37645	0.36551	0.35475	0.38586	7.426

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Compound	0.30000 Level 2	0.40000 Level 3	0.80000 Level 5	2.000 Level 6	5.000 Level 7	20.000 Level 8	___ RRF	% RSD
	50.000 Level 9	100.000 Level 10	200.000 Level 11					
184 2-Chlorotoluene	+++++	0.33540	0.32249	0.30729	0.30590	0.33413		
	0.30764	0.30110	0.29427				0.31353	4.882
185 1,3,5-Trimethylbenzene	+++++	0.62236	0.56602	0.52640	0.51744	0.56132		
	0.52664	0.51298	0.50253				0.54196	7.278
186 4-Chlorotoluene	+++++	+++++	+++++	0.33149	0.33329	0.33791		
	0.32580	0.31978	0.31580				0.32734	2.582
187 Diisobutyl Ketone	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
188 alpha Methyl Styrene	+++++	0.58674	0.55163	0.54458	0.52340	0.59373		
	0.55896	0.54819	0.53323				0.55506	4.393
189 tert-Butylbenzene	+++++	+++++	1.05940	1.01750	0.95902	1.07649		
	0.99956	0.94305	0.92521				0.99718	5.811
190 1,2,4-Trimethylbenzene	+++++	1.23256	1.10654	1.03187	1.02225	1.11861		
	1.04393	1.01613	0.97757				1.06868	7.583
191 Pentachloroethane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
192 sec-Butylbenzene	+++++	0.34742	0.34215	0.31549	0.30761	0.33721		
	0.31815	0.30969	0.29897				0.32209	5.541

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	50.000 Level 9	100.000 Level 10	200.000 Level 11					
193 bis(2-Chloroethyl) Ether	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
194 p-Cymene	+++++	1.50554	1.35565	1.31539	1.30460	1.43659		
	1.34323	1.30113	1.22848				1.34882	6.401
195 1,3-Dichlorobenzene	+++++	0.76718	0.73738	0.71502	0.69941	0.76661		
	0.72843	0.70729	0.68717				0.72606	4.088
196 1,4-Dichlorobenzene	+++++	0.81657	0.76389	0.75583	0.71833	0.77930		
	0.73468	0.71905	0.69530				0.74787	5.220
197 1,2,3-Trimethylbenzene	+++++	+++++	+++++	0.44184	0.44487	0.46203		
	0.44756	0.44921	0.44673				0.44871	1.559
198 1-Nonene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
199 alpha-Chlorotoluene	+++++	1.13155	1.00249	1.00181	0.98469	1.08287		
	1.02949	1.01381	0.97942				1.02827	5.134
200 1-Chlorohexane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
201 Undecane	+++++	+++++	0.98102	0.92723	0.87231	0.95819		
	0.90352	0.87389	0.83312				0.90704	5.743

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	50.000 Level 9	100.000 Level 10	200.000 Level 11					
202 Butylbenzene	+++++	0.37762	0.34507	0.35117	0.34380	0.36489		
	0.34524	0.33876	0.33129				0.34973	4.251
203 Butyl Ether	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
204 1,2-Dichlorobenzene	+++++	0.74510	0.70537	0.70212	0.67508	0.74275		
	0.69885	0.67872	0.66494				0.70162	4.234
205 Hexachloroethane	+++++	+++++	+++++	0.25073	0.22807	0.31064		
	0.28724	0.28330	0.28360				0.27393	10.765
206 1,2-Dibromo-3-chloropropane	+++++	+++++	+++++	0.41149	0.40289	0.43195		
	0.40756	0.39876	0.38829				0.40682	3.609
207 Dodecane	+++++	0.81660	0.76273	0.77645	0.75742	0.77338		
	0.77451	0.75867	0.71615				0.76699	3.625
208 1,3,5-Trichlorobenzene	+++++	+++++	+++++	0.63274	0.64837	0.52413		
	0.58122	0.59822	0.59901				0.59728	7.291
209 1-Decene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
210 alpha-Pinene	+++++	+++++	+++++	0.77525	0.76555	0.81070		
	0.77613	0.76205	0.74860				0.77304	2.717

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	50.000 Level 9	100.000 Level 10	200.000 Level 11					
211 1,4-Dichloro-2-Butene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
212 3-Ethyltoluene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
213 1,2,4-Trichlorobenzene	+++++	+++++	0.52439	0.51233	0.49622	0.51061		
	0.49833	0.48084	0.46566				0.49834	4.016
214 beta-Pinene	+++++	+++++	+++++	0.59511	0.57596	0.65627		
	0.62204	0.60187	0.59120				0.60708	4.679
215 Hexachlorobutadiene	+++++	+++++	0.40609	0.37526	0.37381	0.39489		
	0.37593	0.36008	0.34901				0.37644	5.142
216 Naphthalene	+++++	+++++	1.91443	1.85945	1.72125	1.33565		
	1.31107	1.27329	1.23705				1.52174	19.528
217 Limonene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
218 Benzaldehyde	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
219 Indan	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++

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	50.000 Level 9	100.000 Level 10	200.000 Level 11					
220 Indene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
221 Isobutylbenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
222 1,2,3-Trichlorobenzene	+++++	+++++	0.49108	0.47734	0.45571	0.46004		
	0.45065	0.43868	0.41862				0.45602	5.242
223 2-Ethyltoluene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
224 1-Undecene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
225 4-Ethyl-1,2-dimethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
226 1,3-Diethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
227 1,4-Diethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
228 1,2,4,5-tetramethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++

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	50.000 Level 9	100.000 Level 10	200.000 Level 11					
229 1-Dodecene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
230 Nitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
231 Tridecane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
232 2-Methylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
233 1,3,5-Triethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
M 234 1,2-Dichloroethene (Total)	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
M 235 Chlorobutane (Total)	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
M 236 Total Xylene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
M 237 3 and 4-Ethyltoluene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++

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	50.000 Level 9	100.000 Level 10	200.000 Level 11					
238 Total Volatile Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
239 TPH reference to Hexane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
240 TPH reference to Heptane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
241 TPH reference to Gasoline	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
242 TPH reference MineralSpirits	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
243 TPH reference to Stoddard	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
244 TVOC reference to Hexane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
245 TVOC reference to Heptane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
246 TVOC reference to Toluene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++

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	50.000 Level 9	100.000 Level 10	200.000 Level 11					
247 TVOC reference to Toluene-d8	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
248 NMOC reference to Hexane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
249 NMOC reference to Heptane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
250 NMOC reference to Toluene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
251 C3 - C4 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
252 C4 - C5 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
253 C5 - C6 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
254 C6 - C7 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
255 C7 - C8 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++

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256 C8 - C9 Hydrocarbons	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	+++++
257 C9 - C10 Hydrocarbons	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	+++++
258 C10+ Hydrocarbons	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	+++++
259 C5 - C6 Aliphatic ref C5 + C6	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	+++++
260 C6-C8 Aliphatic ref Heptane	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	+++++
261 C8-C10 Aliphatic ref Decane	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	+++++
262 C10-C12 Aliphatic ref Dodecan	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	+++++
263 C8-C10 Aromatic	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	+++++
264 C8-C10 Aromatic ref 1,2,3-TMB	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	+++++

US32TAR1

INITIAL CALIBRATION DATA

Start Cal Date : 22-JUN-2021 15:51
End Cal Date : 23-JUN-2021 00:09
Quant Method : ISTD
Origin : Disabled
Target Version : 3.60
Integrator : HP RTE
Method file : /chem/msd3.i/22JUN21.b/321q0622a.m
Cal Date : 23-Jun-2021 12:05 lk8g
Curve Type : Average

Compound	0.30000 Level 2	0.40000 Level 3	0.80000 Level 5	2.000 Level 6	5.000 Level 7	20.000 Level 8	RRF	% RSD
	50.000 Level 9	100.000 Level 10	200.000 Level 11					
265 C10-C12 Aromatic	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
266 C10-C12 Aromatic 1,2,4,5-TMB	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
267 C10-C12 Aromatic Naphthalene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
$ 104 1,2-Dichloroethane-d4	1.39594	1.39931	1.39591	1.38860	1.38809	1.39744		
	1.36655	1.34902	1.30112				1.37578	2.373
$ 133 Benzene-d6	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
$ 134 Toluene-d8	1.02949	1.03423	1.02563	1.02620	1.03253	1.03211		
	1.03424	1.03707	1.01586				1.02971	0.623
$ 170 4-Bromofluorobenzene	0.65667	0.65828	0.66384	0.65372	0.65403	0.66471		
	0.66865	0.67027	0.66119				0.66126	0.916

Report Date: 23-Jun-2021 12:05

Calibration History

Method : /chem/msd3.i/22JUN21.b/321q0622a.m
Start Cal Date: 22-JUN-2021 15:51
End Cal Date : 23-JUN-2021 00:09

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 2 , Cal Amount: 0.30000		
22-JUN-2021 20:28	AT20_Level2	/chem/msd3.i/22JUN21.b/3062215.d
Cal Level: 3 , Cal Amount: 0.40000		
22-JUN-2021 20:55	AT20_Level3	/chem/msd3.i/22JUN21.b/3062216.d
22-JUN-2021 15:51	AT20spICAL_lv3	/chem/msd3.i/22JUN21.b/3062205.d
Cal Level: 5 , Cal Amount: 0.80000		
22-JUN-2021 21:22	AT20_Level5	/chem/msd3.i/22JUN21.b/3062217.d
22-JUN-2021 16:17	AT20spICAL_lv3	/chem/msd3.i/22JUN21.b/3062206.d
Cal Level: 6 , Cal Amount: 2.00000		
22-JUN-2021 21:49	AT20ICAL	/chem/msd3.i/22JUN21.b/3062218.d
22-JUN-2021 16:44	AT20spICAL	/chem/msd3.i/22JUN21.b/3062207.d
Cal Level: 7 , Cal Amount: 5.00000		
22-JUN-2021 22:18	AT20ICAL	/chem/msd3.i/22JUN21.b/3062219.d
22-JUN-2021 17:13	AT20spICAL	/chem/msd3.i/22JUN21.b/3062208.d
Cal Level: 8 , Cal Amount: 20.00000		
22-JUN-2021 22:44	AT20ICAL	/chem/msd3.i/22JUN21.b/3062220.d
22-JUN-2021 17:39	AT20spICAL	/chem/msd3.i/22JUN21.b/3062209.d
Cal Level: 9 , Cal Amount: 50.00000		
22-JUN-2021 23:12	AT20ICAL	/chem/msd3.i/22JUN21.b/3062221.d
22-JUN-2021 18:07	AT20spICAL	/chem/msd3.i/22JUN21.b/3062210.d

Cal Level: 10, Cal Amount: 100.00000		
22-JUN-2021 23:39	AT20ICAL	/chem/msd3.i/22JUN21.b/3062222.d
22-JUN-2021 18:34	AT20spICAL	/chem/msd3.i/22JUN21.b/3062211.d

Cal Level: 11, Cal Amount: 200.00000		
23-JUN-2021 00:09	AT20ICAL	/chem/msd3.i/22JUN21.b/3062223.d
22-JUN-2021 19:03	AT20spICAL	/chem/msd3.i/22JUN21.b/3062212.d

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 9

Ccal Level: 9 , Ccal Amount: 50.000		
22-JUN-2021 23:12	AT20ICAL	/chem/msd3.i/22JUN21.b/3062221.d

Ccal Level: 9 , Ccal Amount: 50.000		
22-JUN-2021 18:07	AT20spICAL	/chem/msd3.i/22JUN21.b/3062210.d

US32TAR1

INITIAL CALIBRATION DATA

Start Cal Date : 22-JUN-2021 15:51
End Cal Date : 23-JUN-2021 00:09
Quant Method : ISTD
Origin : Disabled
Target Version : 3.60
Integrator : HP RTE
Method file : /chem/msd3.i/22JUN21.b/321q0622a.m
Cal Date : 23-Jun-2021 12:05 lk8g
Curve Type : Average

Please see Calibration History page(s) for all the calibration files.

UP 6/23/21

Calibration File Names:
Level 2: /chem/msd3.i/22JUN21.b/3062215.d
Level 3: /chem/msd3.i/22JUN21.b/3062216.d
Level 5: /chem/msd3.i/22JUN21.b/3062217.d
Level 6: /chem/msd3.i/22JUN21.b/3062218.d
Level 7: /chem/msd3.i/22JUN21.b/3062219.d
Level 8: /chem/msd3.i/22JUN21.b/3062220.d
Level 9: /chem/msd3.i/22JUN21.b/3062221.d
Level 10: /chem/msd3.i/22JUN21.b/3062222.d
Level 11: /chem/msd3.i/22JUN21.b/3062223.d

Compound	0.30000 Level 2	0.40000 Level 3	0.80000 Level 5	2.000 Level 6	5.000 Level 7	20.000 Level 8	___ RRF	% RSD
	50.000 Level 9	100.000 Level 10	200.000 Level 11					
1 Dimethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
2 1,1-Dichloro-1-Fluoroethane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
3 Freon 143a	+++++	+++++	+++++	0.39291	0.44265	0.44864		
	0.42230	0.41716	0.38549				0.41819	6.098
4 Freon 134a	+++++	+++++	0.63865	0.60478	0.59997	0.61448		
	0.58371	0.56637	0.55610				0.59487	4.787
5 Propylene	+++++	+++++	+++++	0.65170	0.58539	0.61293		
	0.60477	0.58759	0.58081				0.60387	4.387

Initial Calibration Narrative
321Q0622A.m

A multi-point TO-15 initial calibration was analyzed on MSD-3 on 06/22/2021.

ICAL: 1 out. 1,2-Dichloropropane @ 33.26%
Naph: 19.528%RSD.

ICV: 1 out. Trans-1,4-dichloro-2-butene @ 132.92%. File: 3062226.
Naph Recovery: 76.92%R.
DOD QSM: 1 out. Trans-1,4-dichloro-2-butene @ 132.92%. File: 3062226a.
RCP: 3 Non RCP compounds out: See file 3062226c.
DODsp (PID 23339): 1 out. Trans-1,4-dichloro-2-butene @ 132.92%. File: 3062226d.

The concentrations for Ethanol, Acrolein, 1,2,4-Trichlorobenzene, Naphthalene, 1,2,3-Trichlorobenzene, and Hexachlorobutadiene were adjusted in the ICV due to the certified concentration exceeding more than 15% of the nominal concentration.

An 8-point ICAL for AT20 supplemental compounds was analyzed on MSD on 06/22/2021.

ICAL: 1 out. Isobutanol @ 39.638%

NO ICV for AT20 supplemental compounds except 1,1,1,2-Tetrachloroethane.

The low point spike verification file is 3062216x for BTEXS.

The concentrations for Dodecane, 1,2,4-TCB, Hexachlorobutadiene, 1,2,3-TCB, and Naphthalene were adjusted in the calibration due to the certified concentration exceeding more than 15% of the nominal concentration.

-Dodecane was curved at 0.4944ppbv→ 247.2ppbv.
-1,2,4-TCB was curved at 1.0072ppbv→251.8ppbv
-Hexachlorobutadiene was curved at 1.0296ppbv→257.4ppbv
-1,2,3-TCB was curved at 1.0648ppbv→266.2ppbv
-Naphthalene was curved at 0.10160ppbv →25.4ppbv*

*The secondary mass ion peak, 127amu, for Naphthalene shows baseline interference at the special reporting limit of 0.05ppbv. Identification of Naphthalene is however reliable at the lowest concentrations based on the presence and abundance ratio of the primary ion. The spectrum of Naphthalene in this ICAL point will be used as the reference to determine the ion ratio target in the samples for this ICAL.

The following compounds were calibrated down to 0.3ppbv:

1,1-Dichloroethane	Chloroform	1,1,1-Trichloroethane
Bromodichloroethane	Chlorobenzene	

BFB tune file:
1. 3062204.

The AT20MDL Expires 6/8/22.

The MDL for 1,1,1,2-PCE expires 05/05/22.

MSD3

							Method TO-15/TO-14					
BFB Tune Verification: (321984/343552) * 100 =93.72%							SOP# 6					
	3234-42	Exp. Date:	9/22/2021			Vacuum:	NA					
BCM	243405			Surrogate # 3234-42		Exp Date:	9/22/2021				Exp Date	
1,4-DFB	874076			CCV	3018-2115	Exp Date:	9/21/2021	LCS	3018-2121		Exp Date	9/22/2021
CB-d5	831223			CCV SP 1 #	3018-2116	Exp Date:	9/21/2021	LCS Sp #1	NA		Exp Date	NA
				CCV SP 2 #	3018-2078	Exp Date:	8/4/2021	LCS Sp #2	NA		Exp Date	NA
				CCV SP 3#	3018-2013	Exp Date:	8/4/2021	LCS Sp #3	NA		Exp Date	NA
Verified CCV vs. ICAL midpoint (-40%): LD				CCV SP 4#	NA	Exp Date:	NA					
Method: 321q0622a.m												

Use	File #	Enter/Scan Sample IDs	Canister#	Cart Pos.	Pressure	Amount	DF	Verify Load	Loaded Init.	Date Analyzed	Time	Review Init	Comments
√	3062204	BFB Tune Check	3234-42	3	36ng	200mL	1.00	LD	LD	06/22/21	1428	LD	Exp. 9/22/21
√	3062205	ICAL Level 3	3018-2078	4	0.4ppbv (5.0ppbv)	16mL	1.00	LD	LD	06/22/21	1551	LD	Exp. 8/04/21
√	3062206	ICAL Level 5	3018-2078	4	0.8ppbv (5.0ppbv)	32mL	1.00	LD	LD	06/22/21	1617	LD	
√	3062207	ICAL Level 6	3018-2078	4	2.0ppbv (5.0ppbv)	80mL	1.00	LD	LD	06/22/21	1644	LD	
√	3062208	ICAL Level 7	3018-2078	4	5.0ppbv (5.0ppbv)	200mL	1.00	LD	LD	06/22/21	1713	LD	
√	3062209	ICAL Level 8	3018-2013	5	20ppbv (200ppbv)	20mL	1.00	LD	LD	06/22/21	1739	LD	Exp. 8/04/21
√	3062210	ICAL Level 9	3018-2013	5	50ppbv (200ppbv)	50mL	1.00	LD	LD	06/22/21	1807	LD	
√	3062211	ICAL Level 10	3018-2013	5	100ppbv (200ppbv)	100mL	1.00	LD	LD	06/22/21	1834	LD	
√	3062212	ICAL Level 11	3018-2013	5	200ppbv (200ppbv)	200mL	1.00	LD	LD	06/22/21	1903	LD	
√	3062213	System Blank	35157	3	Humid	200mL	1.00	LD	LD	06/22/21	1932	LD	
√	3062214	System Blank	35157	3	Humid	200mL	1.00	LD	LD	06/22/21	2001	LD	
√	3062215	ICAL Level 2	3018-2116	1	0.3ppbv (5.0ppbv)	12mL	1.00	LD	LD	06/22/21	2028	LD	Exp. 9/21/21
√	3062216	ICAL Level 3	3018-2116	1	0.4ppbv (5.0ppbv)	16mL	1.00	LD	LD	06/22/21	2055	LD	
√	3062217	ICAL Level 5	3018-2116	1	0.8ppbv (5.0ppbv)	32mL	1.00	LD	LD	06/22/21	2122	LD	
√	3062218	ICAL Level 6	3018-2116	1	2.0ppbv (5.0ppbv)	80mL	1.00	LD	LD	06/22/21	2149	LD	
√	3062219	ICAL Level 7	3018-2116	1	5.0ppbv (5.0ppbv)	200mL	1.00	LD	LD	06/22/21	2218	LD	
√	3062220	ICAL Level 8	3018-2115	2	20ppbv (200ppbv)	20mL	1.00	LD	LD	06/22/21	2244	LD	Exp. 9/21/21
√	3062221	ICAL Level 9	3018-2115	2	50ppbv (200ppbv)	50mL	1.00	LD	LD	06/22/21	2312	LD	
√	3062222	ICAL Level 10	3018-2115	2	100ppbv (200ppbv)	100mL	1.00	LD	LD	06/22/21	2339	LD	
√	3062223	ICAL Level 11	3018-2115	2	200ppbv (200ppbv)	200mL	1.00	LD	LD	06/23/21	0009	LD	
√	3062224	System Blank	35157	3	Humid	200mL	1.00	LD	LD	06/23/21	0038	LD	
√	3062225	System Blank	35157	3	Humid	200mL	1.00	LD	LD	06/23/21	0107	LD	
√	3062226	ICV	3018-2121	14	50ppbv (200ppbv)	50mL	1.00	LD	LD	06/23/21	0945	LD	Exp. 9/22/21

GD 6/23/21

IS and Associated Target Compounds and Surr.
Instruction #: I1.20

Modified EPA Methods TO-14A/TO-15
Internal Standard and Associated Target Compounds and Surrogates

Bromochloromethane*
Target Compounds:
Freon 12
Freon 114
Chloromethane
Vinyl Chloride
1,3-Butadiene
Bromomethane
Chloroethane
Freon 11
Ethanol
Freon 113
1,1-Dichloroethene
Acetone
2-Propanol
Carbon Disulfide
3-Chloropropene
Methylene Chloride
Methyl tert-butyl ether
trans-1,2-Dichloroethene
Hexane
1,1-Dichloroethane
2-Butanone (Methyl Ethyl Ketone)
cis-1,2-Dichloroethene
Tetrahydrofuran
Chloroform
1,1,1-Trichloroethane
Cyclohexane
Carbon Tetrachloride
2,2,4-Trimethylpentane
Surrogates:
1,2-Dichloroethane-d4

1,4-Difluorobenzene
Target Compounds:
Benzene
1,2-Dichloroethane
Heptane
Trichloroethene
1,2-Dichloropropane
1,4-Dioxane
Bromodichloromethane
cis-1,3-Dichloropropene
4-Methyl-2-pentanone
Toluene
Surrogates:
Toluene-d8

Chlorobenzene-d5
Target Compounds:
trans-1,3-Dichloropropene
1,1,2-Trichloroethane
Tetrachloroethene
2-Hexanone
Dibromochloromethane
1,2-Dibromoethane (EDB)
Chlorobenzene
Ethyl Benzene
m,p-Xylene
o-Xylene
Styrene
Bromoform
Cumene
1,1,2,2-Tetrachloroethane
Propylbenzene
4-Ethyltoluene
1,3,5-Trimethylbenzene
1,2,4-Trimethylbenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
alpha-Chlorotoluene
1,2-Dichlorobenzene
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Surrogates:
Bromofluorobenzene

*Note: If Bromochloromethane (BCM) is required as a target compound, the internal standard mix is blended without BCM. Compounds and surrogates assigned to BCM are re-assigned to 1,4-Difluorobenzene for calibration and subsequent quantitation.

US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msd3.i/22JUN21.b/3062215.d
Lab Smp Id: ICAL Level 2
Inj Date : 22-JUN-2021 20:28
Operator : LD Inst ID: msd3.i
Smp Info : 12mL 3018-2116
Misc Info : 0.3ppbv (5.0ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msd3.i/22JUN21.b/321q0622a.m
Meth Date : 23-Jun-2021 12:22 lk8g Quant Type: ISTD
Cal Date : 22-JUN-2021 20:28 Cal File: 3062215.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT20_Level2.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
71 1,1-Dichloroethane					CAS #: 75-34-3		
4.459	4.459 (0.844)	63	4948	0.30000	0.3485	80.00- 120.00	100.00(a)
4.459	4.459 (0.844)	65	2065			0.76- 60.76	41.73
* 90 Bromochloromethane					CAS #: 74-97-5		
5.284	5.284 (1.000)	130	249295	25.0000		80.00- 120.00	100.00
5.284	5.284 (1.000)	128	193294			48.46- 108.46	77.54
5.270	5.270 (1.000)	49	375698			120.39- 180.39	150.70
92 Chloroform					CAS #: 67-66-3		
5.340	5.340 (1.011)	83	5879	0.30000	0.3761	80.00- 120.00	100.00(a)
5.340	5.340 (1.011)	85	3350			34.71- 94.71	56.98
96 1,1,1-Trichloroethane					CAS #: 71-55-6		
5.466	5.466 (1.034)	97	6675	0.30000	0.3799	80.00- 120.00	100.00(a)
5.452	5.466 (1.032)	99	3504			33.76- 93.76	52.49
$ 104 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
5.816	5.816 (1.101)	65	348002	25.0000	25.366	80.00- 120.00	100.00
5.816	5.816 (1.101)	67	168803			21.66- 81.66	48.51

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
* 108 1,4-Difluorobenzene					CAS #: 540-36-3		
6.166	6.180 (1.000)	114	904126	25.0000		80.00- 120.00	100.00
6.166	6.180 (1.000)	88	141697			0.00- 45.52	15.67
122 Bromodichloromethane					CAS #: 75-27-4		
6.836	6.836 (1.109)	83	5988	0.30000	0.3453	80.00- 120.00	100.00(a)
6.836	6.836 (1.109)	85	3626			34.31- 94.31	60.55
$ 134 Toluene-d8					CAS #: 2037-26-5		
7.387	7.387 (1.198)	98	930785	25.0000	24.995	80.00- 120.00	100.00
7.380	7.387 (1.197)	70	105468			0.00- 41.47	11.33
7.387	7.387 (1.198)	100	607392			36.47- 96.47	65.26
* 153 Chlorobenzene-d5					CAS #: 3114-55-4		
8.612	8.619 (1.000)	117	849694	25.0000		80.00- 120.00	100.00
8.612	8.619 (1.000)	82	472432			25.46- 85.46	55.60
154 Chlorobenzene					CAS #: 108-90-7		
8.641	8.641 (1.003)	112	7842	0.30000	0.3377	80.00- 120.00	100.00(a)
8.641	8.641 (1.003)	114	2767			2.13- 62.13	35.28
8.612	8.641 (1.000)	77	14194			26.35- 86.35	181.00
$ 170 4-Bromofluorobenzene					CAS #: 460-00-4		
9.601	9.601 (1.115)	174	557967	25.0000	24.826	80.00- 120.00	100.00
9.601	9.601 (1.115)	95	696856			93.06- 153.06	124.89
9.601	9.601 (1.115)	176	527415			62.87- 122.87	94.52

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd3.i
Lab File ID: 3062215.d
Lab Smp Id: ICAL Level 2
Analysis Type: VOA
Quant Type: ISTD
Operator: LD
Method File: /chem/msd3.i/22JUN21.b/321q0622a.m
Misc Info: 0.3ppbv (5.0ppbv)

Calibration Date: 22-JUN-2021
Calibration Time: 23:12
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	243405	146043	340767	249295	2.42
108 1,4-Difluorobenze	874076	524446	1223706	904126	3.44
153 Chlorobenzene-d5	831223	498734	1163712	849694	2.22

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.28	4.95	5.61	5.28	0.00
108 1,4-Difluorobenze	6.18	5.85	6.51	6.17	-0.22
153 Chlorobenzene-d5	8.62	8.29	8.95	8.61	-0.08

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msd3.i/22JUN21.b/3062215.d

Date : 22-JUN-2021 20:28

Client ID:

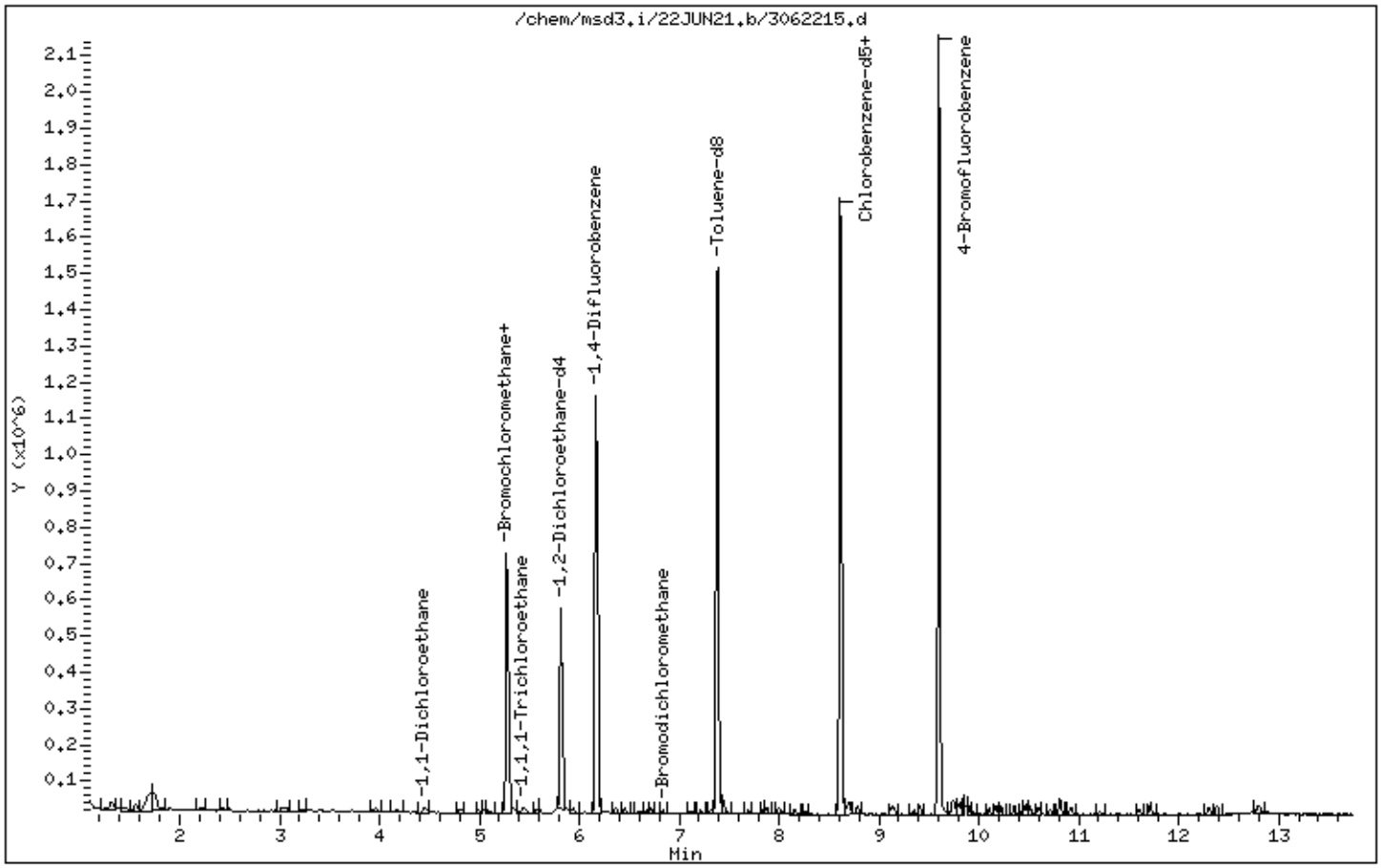
Instrument: msd3.i

Sample Info: 12mL 3018-2116

Operator: LD

Column phase: RTX-624

Column diameter: 0.25



US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msd3.i/22JUN21.b/3062205.d
Lab Smp Id: ICAL Level 3
Inj Date : 22-JUN-2021 15:51
Operator : LD Inst ID: msd3.i
Smp Info : 16mL 3018-2078
Misc Info : 0.4ppbv (5.0ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msd3.i/22JUN21.b/321q0622a.m
Meth Date : 23-Jun-2021 12:22 lk8g Quant Type: ISTD
Cal Date : 22-JUN-2021 20:55 Cal File: 3062216.d
Als bottle: 4 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT20spICAL_lv3.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 90 Bromochloromethane					CAS #: 74-97-5		
5.284	5.284 (1.000)	130	233349	25.0000		80.00- 120.00	100.00
5.284	5.284 (1.000)	128	177990			48.46- 108.46	76.28
5.270	5.270 (1.000)	49	342636			120.39- 180.39	146.83
* 108 1,4-Difluorobenzene					CAS #: 540-36-3		
6.166	6.180 (1.000)	114	847428	25.0000		80.00- 120.00	100.00
6.166	6.180 (1.000)	88	132894			0.00- 45.52	15.68
* 153 Chlorobenzene-d5					CAS #: 3114-55-4		
8.619	8.619 (1.000)	117	791619	25.0000		80.00- 120.00	100.00
8.619	8.619 (1.000)	82	440182			25.46- 85.46	55.61
157 1,1,1,2-Tetrachloroethane					CAS #: 630-20-6		
8.712	8.712 (1.011)	131	5609	0.40000	0.4710	80.00- 120.00	100.00(a)
8.712	8.712 (1.011)	117	8658			38.22- 98.22	154.36
8.705	8.712 (1.010)	95	2537			7.54- 67.54	45.23

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd3.i
Lab File ID: 3062205.d
Lab Smp Id: ICAL Level 3
Analysis Type: VOA
Quant Type: ISTD
Operator: LD
Method File: /chem/msd3.i/22JUN21.b/321q0622a.m
Misc Info: 0.4ppbv (5.0ppbv)

Calibration Date: 22-JUN-2021
Calibration Time: 23:12
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	243405	146043	340767	233349	-4.13
108 1,4-Difluorobenze	874076	524446	1223706	847428	-3.05
153 Chlorobenzene-d5	831223	498734	1163712	791619	-4.76

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.28	4.95	5.61	5.28	0.00
108 1,4-Difluorobenze	6.18	5.85	6.51	6.17	-0.23
153 Chlorobenzene-d5	8.62	8.29	8.95	8.62	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msd3.i/22JUN21.b/3062205.d

Date : 22-JUN-2021 15:51

Client ID:

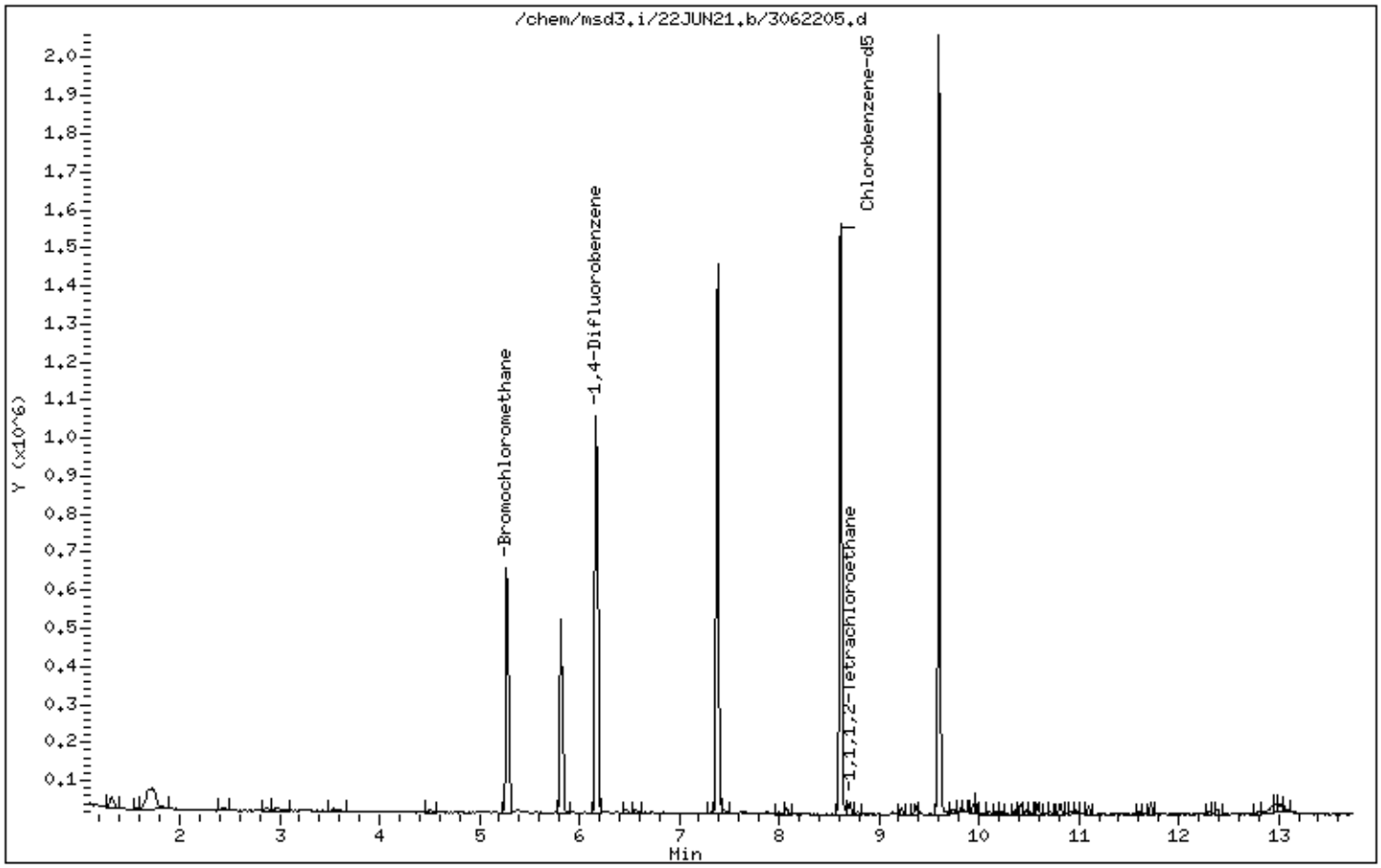
Instrument: msd3.i

Sample Info: 16mL 3018-2078

Operator: LD

Column phase: RTX-624

Column diameter: 0.25



US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msd3.i/22JUN21.b/3062216.d
Lab Smp Id: ICAL Level 3
Inj Date : 22-JUN-2021 20:55
Operator : LD Inst ID: msd3.i
Smp Info : 16mL 3018-2116
Misc Info : 0.4ppbv (5.0ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msd3.i/22JUN21.b/321q0622a.m
Meth Date : 23-Jun-2021 12:22 lk8g Quant Type: ISTD
Cal Date : 22-JUN-2021 20:55 Cal File: 3062216.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT20_Level3.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
8 Freon 12					CAS #: 75-71-8		
1.451	1.465 (0.275)	85	8702	0.40000	0.4952	80.00- 120.00	100.00(a)
1.451	1.465 (0.275)	87	2729			2.63- 62.63	31.36
10 Freon 114					CAS #: 76-14-2		
1.563	1.562 (0.296)	135	5764	0.40000	0.4427	80.00- 120.00	100.00(a)
1.563	1.562 (0.296)	137	1919			2.12- 62.12	33.29
19 Vinyl Chloride					CAS #: 75-01-4		
1.730	1.744 (0.328)	62	4560	0.40000	0.5834	80.00- 120.00	100.00
1.730	1.744 (0.328)	64	2703			1.28- 61.28	59.28
20 1,3-Butadiene					CAS #: 106-99-0		
1.758	1.758 (0.334)	54	4167	0.40000	0.5818	80.00- 120.00	100.00
1.758	1.758 (0.334)	39	7808			69.23- 129.23	187.38
33 Freon 11					CAS #: 75-69-4		
2.430	2.430 (0.461)	101	8230	0.40000	0.4426	80.00- 120.00	100.00(a)
2.430	2.430 (0.461)	103	6134			35.12- 95.12	74.53

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
43 Freon 113					CAS #: 76-13-1		
3.032	3.032 (0.575)	151	5926	0.40000	0.4662	80.00- 120.00	100.00(a)
3.032	3.032 (0.575)	153	3856			33.72- 93.72	65.07
3.032	3.032 (0.575)	101	7302			89.67- 149.67	123.22
44 1,1-Dichloroethene					CAS #: 75-35-4		
3.060	3.074 (0.581)	96	4017	0.40000	0.5247	80.00- 120.00	100.00
3.060	3.074 (0.581)	98	2920			33.39- 93.39	72.69
3.060	3.074 (0.581)	61	6159			163.82- 223.82	153.32
64 trans-1,2-Dichloroethene					CAS #: 156-60-5		
3.969	3.969 (0.753)	98	2858	0.40000	0.5547	80.00- 120.00	100.00
3.969	3.969 (0.753)	61	5551			244.59- 304.59	194.23
3.969	3.969 (0.753)	96	3975			129.84- 189.84	139.08
66 Acrylonitrile					CAS #: 107-13-1		
4.067	4.067 (0.772)	52	3799	0.40000	0.6144	80.00- 120.00	100.00
4.081	4.067 (0.774)	53	3113			88.50- 148.50	81.94
67 Hexane					CAS #: 110-54-3		
4.165	4.179 (0.790)	57	6655	0.40000	0.4764	80.00- 120.00	100.00(a)
4.165	4.179 (0.790)	43	5008			32.99- 92.99	75.25
4.179	4.179 (0.793)	86	1092			0.00- 42.56	16.41
71 1,1-Dichloroethane					CAS #: 75-34-3		
4.459	4.459 (0.846)	63	6212	0.40000	0.4324	80.00- 120.00	100.00(a)
4.459	4.459 (0.846)	65	2569			0.76- 60.76	41.36
85 cis-1,2-Dichloroethene					CAS #: 156-59-2		
5.047	5.046 (0.958)	98	2544	0.40000	0.4981	80.00- 120.00	100.00(a)
5.047	5.046 (0.958)	96	4023			127.22- 187.22	158.14
5.047	5.046 (0.958)	61	5227			283.85- 343.85	205.46
* 90 Bromochloromethane					CAS #: 74-97-5		
5.270	5.284 (1.000)	130	252258	25.0000		80.00- 120.00	100.00
5.270	5.284 (1.000)	128	193973			48.46- 108.46	76.89
5.270	5.270 (1.000)	49	377607			120.39- 180.39	149.69
89 Tetrahydrofuran					CAS #: 109-99-9		
5.284	5.270 (1.003)	42	4319	0.40000	0.4294	80.00- 120.00	100.00(a)
5.284	5.270 (1.003)	71	2513			2.92- 62.92	58.18
5.284	5.270 (1.003)	72	1686			3.54- 63.54	39.04
92 Chloroform					CAS #: 67-66-3		
5.340	5.340 (1.013)	83	6620	0.40000	0.4186	80.00- 120.00	100.00(a)
5.340	5.340 (1.013)	85	4523			34.71- 94.71	68.32

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
94 Cyclohexane					CAS #: 110-82-7		
5.438	5.438 (1.032)	84	4925	0.40000	0.4926	80.00- 120.00	100.00(a)
5.438	5.438 (1.032)	56	6278			120.40- 180.40	127.47
5.438	5.438 (1.032)	41	3996			54.20- 114.20	81.14
96 1,1,1-Trichloroethane					CAS #: 71-55-6		
5.452	5.466 (1.034)	97	8276	0.40000	0.4655	80.00- 120.00	100.00(a)
5.452	5.466 (1.034)	99	5016			33.76- 93.76	60.61
97 Carbon Tetrachloride					CAS #: 56-23-5		
5.578	5.578 (1.058)	119	7444	0.40000	0.4546	80.00- 120.00	100.00(a)
5.578	5.578 (1.058)	117	7310			73.68- 133.68	98.20
101 2,2,4-Trimethylpentane					CAS #: 540-84-1		
5.760	5.774 (1.093)	57	19299	0.40000	0.4418	80.00- 120.00	100.00(a)
5.774	5.774 (1.096)	56	6206			1.12- 61.12	32.16
5.760	5.774 (1.093)	41	5471			0.00- 57.49	28.35
102 Benzene					CAS #: 71-43-2		
5.788	5.788 (0.939)	78	9452	0.40000	0.4593	80.00- 120.00	100.00(a)
5.788	5.788 (0.939)	77	3560			0.00- 53.80	37.66
$ 104 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
5.816	5.816 (1.104)	65	352987	25.0000	25.428	80.00- 120.00	100.00
5.816	5.816 (1.104)	67	172487			21.66- 81.66	48.86
106 1,2-Dichloroethane					CAS #: 107-06-2		
5.886	5.886 (0.955)	62	5469	0.40000	0.4616	80.00- 120.00	100.00(a)
5.886	5.886 (0.955)	64	1777			1.20- 61.20	32.49
107 Heptane					CAS #: 142-82-5		
5.942	5.942 (0.964)	71	4876	0.40000	0.6015	80.00- 120.00	100.00
5.942	5.942 (0.964)	43	7418			179.02- 239.02	152.13
5.942	5.942 (0.964)	57	3845			84.85- 144.85	78.86
* 108 1,4-Difluorobenzene					CAS #: 540-36-3		
6.166	6.180 (1.000)	114	901842	25.0000		80.00- 120.00	100.00
6.166	6.180 (1.000)	88	141172			0.00- 45.52	15.65
111 Trichloroethene					CAS #: 79-01-6		
6.362	6.362 (1.032)	95	4490	0.40000	0.4349	80.00- 120.00	100.00(a)
6.362	6.362 (1.032)	130	4609			74.96- 134.96	102.65
6.362	6.362 (1.032)	97	3359			34.80- 94.80	74.81
114 1,2-Dichloropropane					CAS #: 78-87-5		
6.586	6.586 (1.068)	63	2984	0.40000	0.6255	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
114 1,2-Dichloropropane (continued)							
6.586	6.586 (1.068)	62	2025			52.03- 112.03	67.86
6.586	6.586 (1.068)	41	1552			79.97- 139.97	52.01
118 Dibromomethane						CAS #: 74-95-3	
6.721	6.721 (0.780)	174	4067	0.40000	0.4396	80.00- 120.00	100.00(a)
6.721	6.721 (0.780)	93	4699			67.27- 127.27	115.54
6.721	6.721 (0.780)	95	3967			50.92- 110.92	97.54
122 Bromodichloromethane						CAS #: 75-27-4	
6.836	6.836 (1.109)	83	8351	0.40000	0.4828	80.00- 120.00	100.00(a)
6.836	6.836 (1.109)	85	5109			34.31- 94.31	61.18
126 cis-1,3-Dichloropropene						CAS #: 10061-01-5	
7.215	7.208 (1.170)	75	5553	0.40000	0.4320	80.00- 120.00	100.00(a)
7.208	7.208 (1.169)	77	2297			1.42- 61.42	41.37
7.208	7.208 (1.169)	39	4193			38.56- 98.56	75.51
127 Methylcyclohexane						CAS #: 108-87-2	
6.460	6.460 (1.048)	83	7121	0.40000	0.5158	80.00- 120.00	100.00(a)
6.460	6.460 (1.048)	98	3326			15.60- 75.60	46.71
6.460	6.460 (1.048)	55	6479			78.53- 138.53	90.98
131 4-Methyl-2-pentanone						CAS #: 108-10-1	
7.323	7.316 (1.188)	58	4765	0.40000	0.5451	80.00- 120.00	100.00
7.323	7.316 (1.188)	43	10377			231.30- 291.30	217.78
7.316	7.316 (1.186)	85	1814			8.94- 68.94	38.07
$ 134 Toluene-d8						CAS #: 2037-26-5	
7.380	7.387 (1.197)	98	932713	25.0000	25.110	80.00- 120.00	100.00
7.380	7.387 (1.197)	70	106484			0.00- 41.47	11.42
7.380	7.387 (1.197)	100	622084			36.47- 96.47	66.70
137 Toluene						CAS #: 108-88-3	
7.437	7.437 (1.206)	91	13232	0.40000	0.4792	80.00- 120.00	100.00(a)
7.445	7.437 (1.207)	92	7422			28.30- 88.30	56.09
136 Octane						CAS #: 111-65-9	
7.445	7.444 (1.207)	57	4295	0.40000	0.4675	80.00- 120.00	100.00(a)
7.445	7.444 (1.207)	85	4221			67.11- 127.11	98.28
7.445	7.444 (1.207)	43	11135			214.21- 274.21	259.25
139 trans-1,3-Dichloropropene						CAS #: 10061-02-6	
7.695	7.688 (0.894)	75	5619	0.40000	0.4420	80.00- 120.00	100.00(a)
7.688	7.688 (0.893)	77	2679			2.15- 62.15	47.68
7.688	7.688 (0.893)	39	3678			36.09- 96.09	65.46

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
141 1,1,2-Trichloroethane						CAS #: 79-00-5	
7.846	7.846 (0.911)	97	4795	0.40000	0.4904	80.00- 120.00	100.00(a)
7.846	7.846 (0.911)	99	2721			31.62- 91.62	56.75
7.846	7.846 (0.911)	83	4102			56.35- 116.35	85.55
142 Tetrachloroethene						CAS #: 127-18-4	
7.874	7.881 (0.914)	166	5995	0.40000	0.4433	80.00- 120.00	100.00(a)
7.874	7.881 (0.914)	129	5111			48.71- 108.71	85.25
7.874	7.881 (0.914)	131	4723			46.55- 106.55	78.78
144 1,3-Dichloropropane						CAS #: 142-28-9	
7.989	7.989 (1.296)	76	6058	0.40000	0.4598	80.00- 120.00	100.00(a)
7.989	7.989 (1.296)	41	6050			82.96- 142.96	99.87
7.989	7.989 (1.296)	78	2306			2.55- 62.55	38.07
146 Dibromochloromethane						CAS #: 124-48-1	
8.154	8.154 (0.947)	129	7861	0.40000	0.4238	80.00- 120.00	100.00(a)
8.154	8.154 (0.947)	127	6418			47.77- 107.77	81.64
148 1,2-Dibromoethane (EDB)						CAS #: 106-93-4	
8.268	8.268 (0.960)	107	6641	0.40000	0.4374	80.00- 120.00	100.00(a)
8.261	8.268 (0.959)	109	6195			64.60- 124.60	93.28
* 153 Chlorobenzene-d5						CAS #: 3114-55-4	
8.612	8.619 (1.000)	117	863143	25.0000		80.00- 120.00	100.00
8.612	8.619 (1.000)	82	476163			25.46- 85.46	55.17
154 Chlorobenzene						CAS #: 108-90-7	
8.641	8.641 (1.003)	112	10297	0.40000	0.4365	80.00- 120.00	100.00(a)
8.641	8.641 (1.003)	114	4003			2.13- 62.13	38.88
8.619	8.641 (1.001)	77	15051			26.35- 86.35	146.17
155 Ethyl Benzene						CAS #: 100-41-4	
8.691	8.684 (1.009)	106	5034	0.40000	0.4267	80.00- 120.00	100.00(a)
8.691	8.684 (1.009)	91	16494			282.48- 342.48	327.65
158 m,p-Xylene						CAS #: 108-38-3	
8.784	8.784 (1.020)	106	6649	0.40000	0.4531	80.00- 120.00	100.00(a)
8.784	8.784 (1.020)	91	12700			171.36- 231.36	191.01
164 o-Xylene						CAS #: 95-47-6	
9.121	9.128 (1.059)	106	6258	0.40000	0.4492	80.00- 120.00	100.00(a)
9.121	9.128 (1.059)	91	13678			179.99- 239.99	218.57
165 Styrene						CAS #: 100-42-5	
9.149	9.149 (1.062)	104	10563	0.40000	0.4376	80.00- 120.00	100.00(a)

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
165 Styrene (continued)							
9.149	9.149 (1.062)	78	5781			19.09- 79.09	54.73
167 Bromoform					CAS #: 75-25-2		
9.350	9.350 (1.086)	173	7676	0.40000	0.4364	80.00- 120.00	100.00(a)
9.357	9.350 (1.086)	171	4098			21.45- 81.45	53.39
168 Cumene					CAS #: 98-82-8		
9.407	9.414 (1.092)	105	20211	0.40000	0.4588	80.00- 120.00	100.00(a)
9.414	9.414 (1.093)	120	5508			0.00- 56.99	27.25
9.407	9.407 (1.092)	51	2729			0.00- 41.77	13.50
$ 170 4-Bromofluorobenzene					CAS #: 460-00-4		
9.601	9.601 (1.115)	174	568188	25.0000	24.887	80.00- 120.00	100.00
9.601	9.601 (1.115)	95	704540			93.06- 153.06	124.00
9.601	9.601 (1.115)	176	531559			62.87- 122.87	93.55
175 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
9.737	9.737 (1.131)	83	10218	0.40000	0.4679	80.00- 120.00	100.00(a)
9.737	9.737 (1.131)	85	6485			34.35- 94.35	63.47
178 Propylbenzene					CAS #: 103-65-1		
9.758	9.758 (1.133)	91	22545	0.40000	0.4386	80.00- 120.00	100.00(a)
9.758	9.758 (1.133)	120	5690			0.00- 53.77	25.24
9.758	9.758 (1.133)	105	1648			0.00- 33.81	7.31
179 1,2,3-Trichloropropane					CAS #: 96-18-4		
9.794	9.787 (1.137)	110	3015	0.40000	0.4583	80.00- 120.00	100.00(a)
9.787	9.787 (1.136)	75	9110			285.00- 345.00	302.16
9.787	9.787 (1.136)	61	3083			54.06- 114.06	102.26
183 4-Ethyltoluene					CAS #: 622-96-8		
9.851	9.851 (1.144)	120	6163	0.40000	0.4626	80.00- 120.00	100.00(a)
9.851	9.851 (1.144)	105	19828			296.79- 356.79	321.73
184 2-Chlorotoluene					CAS #: 95-49-8		
9.873	9.873 (1.146)	126	4632	0.40000	0.4279	80.00- 120.00	100.00(a)
9.873	9.873 (1.146)	91	18214			336.29- 396.29	393.22
9.873	9.873 (1.146)	65	2871			38.83- 98.83	61.98
185 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
9.901	9.901 (1.150)	120	8595	0.40000	0.4593	80.00- 120.00	100.00(a)
9.901	9.901 (1.150)	105	17963			176.40- 236.40	208.99
188 alpha Methyl Styrene					CAS #: 98-83-9		
10.109	10.102 (1.174)	118	8103	0.40000	0.4228	80.00- 120.00	100.00(a)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
188 alpha Methyl Styrene (continued)							
10.102	10.102 (1.173)	103	4467			26.64- 86.64	55.13
190 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
10.224	10.224 (1.187)	105	17022	0.40000	0.4613	80.00- 120.00	100.00(a)
10.224	10.224 (1.187)	120	7387			16.58- 76.58	43.40
192 sec-Butylbenzene					CAS #: 135-98-8		
10.353	10.360 (1.202)	134	4798	0.40000	0.4315	80.00- 120.00	100.00(a)
10.353	10.360 (1.202)	105	23991			451.53- 511.53	500.02
10.353	10.353 (1.202)	91	3952			46.48- 106.48	82.37
194 p-Cymene					CAS #: 99-87-6		
10.467	10.467 (1.215)	119	20792	0.40000	0.4465	80.00- 120.00	100.00(a)
10.467	10.467 (1.215)	134	5696			0.00- 56.79	27.40
10.467	10.467 (1.215)	91	5277			0.00- 54.04	25.38
195 1,3-Dichlorobenzene					CAS #: 541-73-1		
10.518	10.517 (1.221)	146	10595	0.40000	0.4226	80.00- 120.00	100.00(a)
10.518	10.517 (1.221)	148	7151			33.53- 93.53	67.49
10.518	10.517 (1.221)	111	4722			11.05- 71.05	44.57
196 1,4-Dichlorobenzene					CAS #: 106-46-7		
10.596	10.596 (1.230)	146	11277	0.40000	0.4367	80.00- 120.00	100.00(a)
10.596	10.596 (1.230)	148	7136			33.47- 93.47	63.28
10.596	10.596 (1.230)	111	4453			9.65- 69.65	39.49
199 alpha-Chlorotoluene					CAS #: 100-44-7		
10.711	10.711 (1.244)	91	15627	0.40000	0.4402	80.00- 120.00	100.00(a)
10.718	10.711 (1.245)	126	2806			0.00- 52.04	17.96
202 Butylbenzene					CAS #: 104-51-8		
10.818	10.818 (1.256)	134	5215	0.40000	0.4319	80.00- 120.00	100.00(a)
10.818	10.818 (1.256)	91	19669			331.99- 391.99	377.16
10.818	10.818 (1.256)	92	10403			161.01- 221.01	199.48
204 1,2-Dichlorobenzene					CAS #: 95-50-1		
10.926	10.926 (1.269)	146	10290	0.40000	0.4248	80.00- 120.00	100.00(a)
10.926	10.926 (1.269)	148	6583			33.23- 93.23	63.97
10.926	10.918 (1.269)	111	4235			12.36- 72.36	41.16
207 Dodecane					CAS #: 112-40-3		
11.714	11.714 (1.360)	57	13939	0.49440	0.5264	80.00- 120.00	100.00(a)
11.721	11.714 (1.361)	43	11307			50.85- 110.85	81.12

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd3.i
Lab File ID: 3062216.d
Lab Smp Id: ICAL Level 3
Analysis Type: VOA
Quant Type: ISTD
Operator: LD
Method File: /chem/msd3.i/22JUN21.b/321q0622a.m
Misc Info: 0.4ppbv (5.0ppbv)

Calibration Date: 22-JUN-2021
Calibration Time: 23:12
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	243405	146043	340767	252258	3.64
108 1,4-Difluorobenze	874076	524446	1223706	901842	3.18
153 Chlorobenzene-d5	831223	498734	1163712	863143	3.84

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.28	4.95	5.61	5.27	-0.26
108 1,4-Difluorobenze	6.18	5.85	6.51	6.17	-0.22
153 Chlorobenzene-d5	8.62	8.29	8.95	8.61	-0.08

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msd3.i/22JUN21.b/3062216.d

Page 1

Date : 22-JUN-2021 20:55

Client ID:

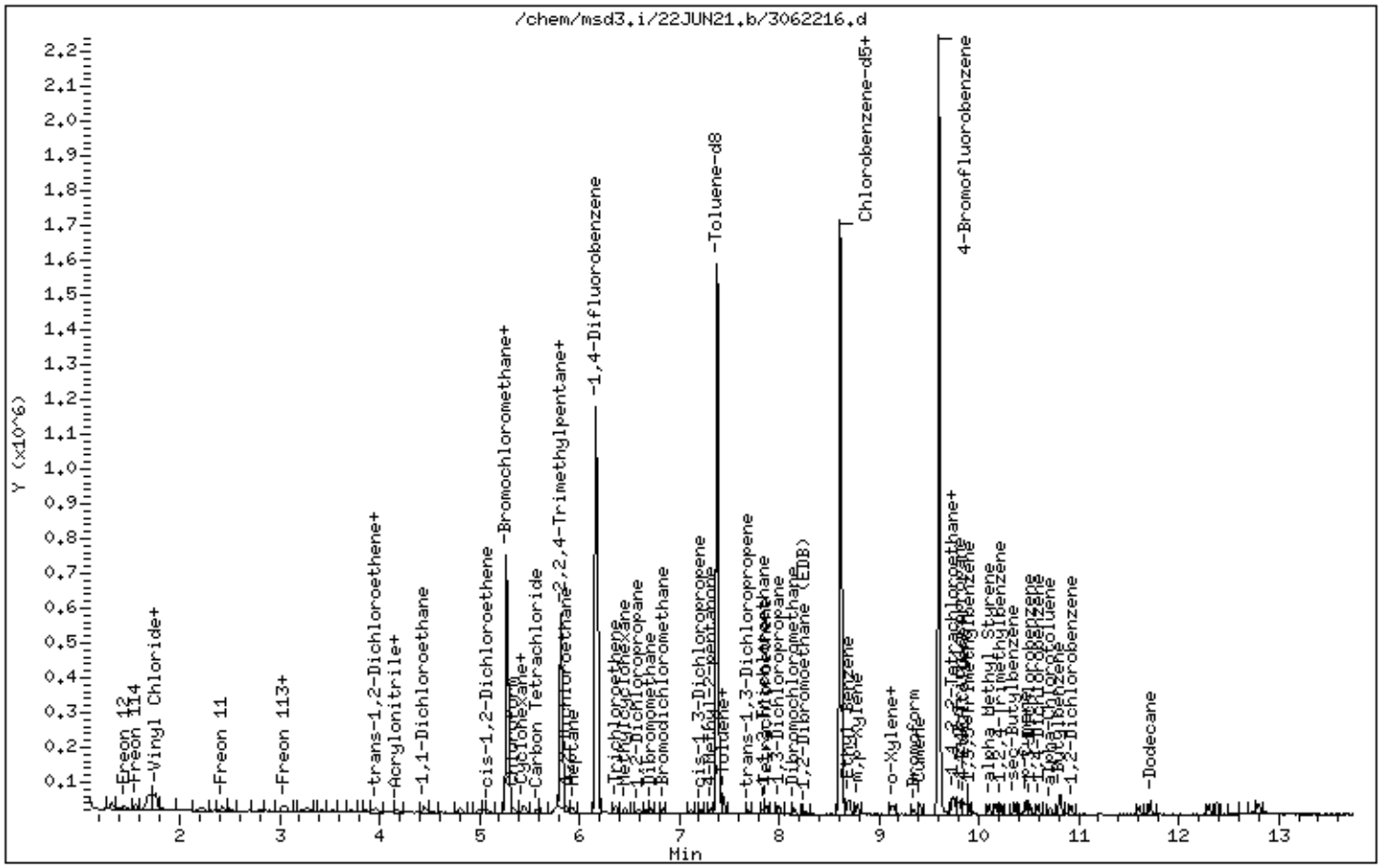
Instrument: msd3.i

Sample Info: 16mL 3018-2116

Operator: LD

Column phase: RTX-624

Column diameter: 0.25



US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msd3.i/22JUN21.b/3062206.d
Lab Smp Id: ICAL Level 5
Inj Date : 22-JUN-2021 16:17
Operator : LD Inst ID: msd3.i
Smp Info : 32mL 3018-2078
Misc Info : 0.8ppbv (5.0ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msd3.i/22JUN21.b/321q0622a.m
Meth Date : 23-Jun-2021 12:22 lk8g Quant Type: ISTD
Cal Date : 22-JUN-2021 21:22 Cal File: 3062217.d
Als bottle: 4 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT20spICAL_lv3.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 90 Bromochloromethane					CAS #: 74-97-5		
5.284	5.284 (1.000)	130	230876	25.0000		80.00- 120.00	100.00
5.284	5.284 (1.000)	128	179221			48.46- 108.46	77.63
5.270	5.270 (1.000)	49	343480			120.39- 180.39	148.77
* 108 1,4-Difluorobenzene					CAS #: 540-36-3		
6.180	6.180 (1.000)	114	839788	25.0000		80.00- 120.00	100.00
6.180	6.180 (1.000)	88	132912			0.00- 45.52	15.83
* 153 Chlorobenzene-d5					CAS #: 3114-55-4		
8.619	8.619 (1.000)	117	799921	25.0000		80.00- 120.00	100.00
8.619	8.619 (1.000)	82	441630			25.46- 85.46	55.21
157 1,1,1,2-Tetrachloroethane					CAS #: 630-20-6		
8.712	8.712 (1.011)	131	9555	0.80000	0.7941	80.00- 120.00	100.00(a)
8.712	8.712 (1.011)	117	10713			38.22- 98.22	112.12
8.712	8.712 (1.011)	95	4189			7.54- 67.54	43.84

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd3.i
Lab File ID: 3062206.d
Lab Smp Id: ICAL Level 5
Analysis Type: VOA
Quant Type: ISTD
Operator: LD
Method File: /chem/msd3.i/22JUN21.b/321q0622a.m
Misc Info: 0.8ppbv (5.0ppbv)

Calibration Date: 22-JUN-2021
Calibration Time: 23:12
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	243405	146043	340767	230876	-5.15
108 1,4-Difluorobenze	874076	524446	1223706	839788	-3.92
153 Chlorobenzene-d5	831223	498734	1163712	799921	-3.77

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.28	4.95	5.61	5.28	0.00
108 1,4-Difluorobenze	6.18	5.85	6.51	6.18	0.00
153 Chlorobenzene-d5	8.62	8.29	8.95	8.62	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msd3.i/22JUN21.b/3062206.d

Date : 22-JUN-2021 16:17

Client ID:

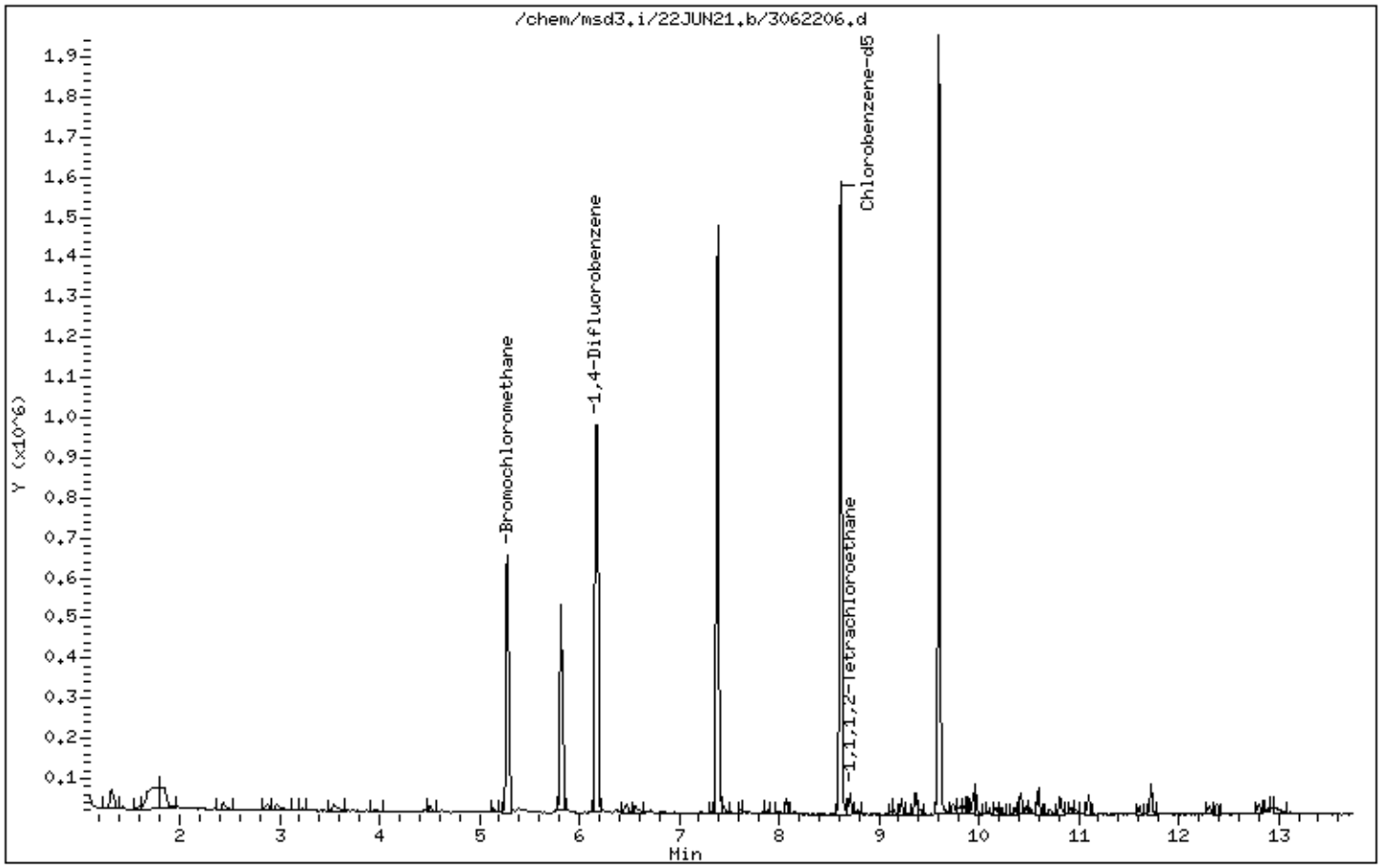
Instrument: msd3.i

Sample Info: 32mL 3018-2078

Operator: LD

Column phase: RTX-624

Column diameter: 0.25



US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msd3.i/22JUN21.b/3062217.d
Lab Smp Id: ICAL Level 5
Inj Date : 22-JUN-2021 21:22
Operator : LD Inst ID: msd3.i
Smp Info : 32mL 3018-2116
Misc Info : 0.8ppbv (5.0ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msd3.i/22JUN21.b/321q0622a.m
Meth Date : 23-Jun-2021 12:22 lk8g Quant Type: ISTD
Cal Date : 22-JUN-2021 21:22 Cal File: 3062217.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT20_Level5.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
4 Freon 134a					CAS #: 811-97-2		
1.395	1.395 (0.265)	83	5563	0.80000	0.8589	80.00- 120.00	100.00
1.395	1.395 (0.265)	69	4431			51.82- 111.82	79.65
1.479	1.479 (0.281)	51	14662			194.91- 254.91	263.56
8 Freon 12					CAS #: 75-71-8		
1.451	1.465 (0.275)	85	16534	0.80000	0.8719	80.00- 120.00	100.00
1.451	1.465 (0.275)	87	5762			2.63- 62.63	34.85
9 Chlorodifluoromethane					CAS #: 75-45-6		
1.479	1.479 (0.281)	67	2252	0.80000	1.081	80.00- 120.00	100.00
1.479	1.479 (0.281)	51	14662			719.76- 779.76	651.07
10 Freon 114					CAS #: 76-14-2		
1.563	1.562 (0.296)	135	11712	0.80000	0.8336	80.00- 120.00	100.00
1.563	1.562 (0.296)	137	3517			2.12- 62.12	30.03
12 Isobutane					CAS #: 75-28-5		
1.577	1.576 (0.299)	43	11751	0.80000	0.7952	80.00- 120.00	100.00(a)
1.577	1.576 (0.299)	42	4362			2.44- 62.44	37.12

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
12 Isobutane (continued)							
1.577	1.576 (0.299)	58	1502			0.00- 33.26	12.78
19 Vinyl Chloride					CAS #: 75-01-4		
1.745	1.744 (0.331)	62	7532	0.80000	0.8931	80.00- 120.00	100.00
1.731	1.744 (0.328)	64	3136			1.28- 61.28	41.64
20 1,3-Butadiene					CAS #: 106-99-0		
1.758	1.758 (0.334)	54	7337	0.80000	0.9492	80.00- 120.00	100.00
1.758	1.758 (0.334)	39	9535			69.23- 129.23	129.96
32 Vinyl Bromide					CAS #: 593-60-2		
2.388	2.388 (0.453)	106	6541	0.80000	0.9020	80.00- 120.00	100.00
2.388	2.388 (0.453)	108	5865			63.14- 123.14	89.67
33 Freon 11					CAS #: 75-69-4		
2.430	2.430 (0.461)	101	16446	0.80000	0.8197	80.00- 120.00	100.00
2.430	2.430 (0.461)	103	11426			35.12- 95.12	69.48
34 Dichlorofluoromethane					CAS #: 75-43-4		
2.444	2.444 (0.464)	67	13606	0.80000	0.8483	80.00- 120.00	100.00
2.444	2.444 (0.464)	69	4613			0.74- 60.74	33.90
35 Pentane					CAS #: 109-66-0		
2.500	2.500 (0.474)	43	13633	0.80000	0.8452	80.00- 120.00	100.00
2.500	2.500 (0.474)	57	2861			0.00- 45.97	20.99
2.500	2.500 (0.474)	72	1508			0.00- 38.10	11.06
38 Ethyl Ether					CAS #: 60-29-7		
2.794	2.780 (0.530)	74	3418	0.80000	0.9452	80.00- 120.00	100.00
2.794	2.780 (0.530)	59	5820			147.68- 207.68	170.28
2.794	2.780 (0.530)	45	8319			206.40- 266.40	243.39
43 Freon 113					CAS #: 76-13-1		
3.032	3.032 (0.575)	151	11491	0.80000	0.8378	80.00- 120.00	100.00
3.032	3.032 (0.575)	153	7583			33.72- 93.72	65.99
3.032	3.032 (0.575)	101	14089			89.67- 149.67	122.61
44 1,1-Dichloroethene					CAS #: 75-35-4		
3.060	3.074 (0.581)	96	7722	0.80000	0.9348	80.00- 120.00	100.00
3.074	3.074 (0.583)	98	4733			33.39- 93.39	61.29
3.060	3.074 (0.581)	61	12988			163.82- 223.82	168.19
54 3-Chloropropene					CAS #: 107-05-1		
3.535	3.535 (0.671)	76	3517	0.80000	0.9939	80.00- 120.00	100.00
3.535	3.535 (0.671)	41	10236			338.06- 398.06	291.04

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
63 Methyl tert-butyl ether					CAS #: 1634-04-4		
3.941	3.941 (0.748)	73	20361	0.80000	0.9156	80.00- 120.00	100.00
3.941	3.941 (0.748)	57	5537			0.00- 58.86	27.19
3.941	3.941 (0.748)	41	6338			0.00- 57.27	31.13
64 trans-1,2-Dichloroethene					CAS #: 156-60-5		
3.969	3.969 (0.753)	98	5379	0.80000	0.9676	80.00- 120.00	100.00
3.969	3.969 (0.753)	61	11688			244.59- 304.59	217.29
3.969	3.969 (0.753)	96	7294			129.84- 189.84	135.60
66 Acrylonitrile					CAS #: 107-13-1		
4.067	4.067 (0.772)	52	5956	0.80000	0.8927	80.00- 120.00	100.00
4.067	4.067 (0.772)	53	4861			88.50- 148.50	81.62
67 Hexane					CAS #: 110-54-3		
4.165	4.179 (0.790)	57	11890	0.80000	0.7888	80.00- 120.00	100.00(a)
4.165	4.179 (0.790)	43	9089			32.99- 92.99	76.44
4.179	4.179 (0.793)	86	1816			0.00- 42.56	15.27
71 1,1-Dichloroethane					CAS #: 75-34-3		
4.459	4.459 (0.846)	63	12612	0.80000	0.8136	80.00- 120.00	100.00
4.459	4.459 (0.846)	65	4509			0.76- 60.76	35.75
84 2,2-Dichloropropane					CAS #: 594-20-7		
5.005	5.004 (0.950)	77	12297	0.80000	0.8515	80.00- 120.00	100.00
5.005	5.004 (0.950)	79	5551			2.00- 62.00	45.14
5.005	5.004 (0.950)	97	3992			0.00- 53.36	32.46
85 cis-1,2-Dichloroethene					CAS #: 156-59-2		
5.047	5.046 (0.958)	98	4999	0.80000	0.9071	80.00- 120.00	100.00
5.047	5.046 (0.958)	96	7390			127.22- 187.22	147.83
5.047	5.046 (0.958)	61	10523			283.85- 343.85	210.50
* 90 Bromochloromethane					CAS #: 74-97-5		
5.270	5.284 (1.000)	130	272204	25.0000		80.00- 120.00	100.00
5.270	5.284 (1.000)	128	209444			48.46- 108.46	76.94
5.270	5.270 (1.000)	49	404014			120.39- 180.39	148.42
89 Tetrahydrofuran					CAS #: 109-99-9		
5.284	5.270 (1.003)	42	8736	0.80000	0.8048	80.00- 120.00	100.00
5.284	5.270 (1.003)	71	4820			2.92- 62.92	55.17
5.284	5.270 (1.003)	72	3472			3.54- 63.54	39.74
92 Chloroform					CAS #: 67-66-3		
5.340	5.340 (1.013)	83	13139	0.80000	0.7699	80.00- 120.00	100.00(a)
5.340	5.340 (1.013)	85	9115			34.71- 94.71	69.37

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
94 Cyclohexane					CAS #: 110-82-7		
5.438	5.438 (1.032)	84	9339	0.80000	0.8657	80.00- 120.00	100.00
5.438	5.438 (1.032)	56	13508			120.40- 180.40	144.64
5.438	5.438 (1.032)	41	7608			54.20- 114.20	81.46
96 1,1,1-Trichloroethane					CAS #: 71-55-6		
5.452	5.466 (1.034)	97	15774	0.80000	0.8223	80.00- 120.00	100.00
5.452	5.466 (1.034)	99	10080			33.76- 93.76	63.90
97 Carbon Tetrachloride					CAS #: 56-23-5		
5.578	5.578 (1.058)	119	13227	0.80000	0.7486	80.00- 120.00	100.00(a)
5.578	5.578 (1.058)	117	14856			73.68- 133.68	112.32
99 1,1-Dichloropropene					CAS #: 563-58-6		
5.606	5.606 (0.909)	110	3831	0.80000	0.8521	80.00- 120.00	100.00
5.606	5.606 (0.909)	75	9872			231.09- 291.09	257.69
101 2,2,4-Trimethylpentane					CAS #: 540-84-1		
5.760	5.774 (1.093)	57	38194	0.80000	0.8102	80.00- 120.00	100.00
5.760	5.774 (1.093)	56	12051			1.12- 61.12	31.55
5.774	5.774 (1.096)	41	11237			0.00- 57.49	29.42
102 Benzene					CAS #: 71-43-2		
5.788	5.788 (0.939)	78	18962	0.80000	0.8411	80.00- 120.00	100.00
5.788	5.788 (0.939)	77	5258			0.00- 53.80	27.73
$ 104 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
5.816	5.816 (1.104)	65	379972	25.0000	25.366	80.00- 120.00	100.00
5.816	5.816 (1.104)	67	185171			21.66- 81.66	48.73
106 1,2-Dichloroethane					CAS #: 107-06-2		
5.886	5.886 (0.955)	62	11003	0.80000	0.8478	80.00- 120.00	100.00
5.886	5.886 (0.955)	64	4135			1.20- 61.20	37.58
107 Heptane					CAS #: 142-82-5		
5.942	5.942 (0.964)	71	7082	0.80000	0.7976	80.00- 120.00	100.00(a)
5.942	5.942 (0.964)	43	15177			179.02- 239.02	214.30
5.942	5.942 (0.964)	57	8196			84.85- 144.85	115.73
* 108 1,4-Difluorobenzene					CAS #: 540-36-3		
6.166	6.180 (1.000)	114	987880	25.0000		80.00- 120.00	100.00
6.166	6.180 (1.000)	88	154426			0.00- 45.52	15.63
111 Trichloroethene					CAS #: 79-01-6		
6.362	6.362 (1.032)	95	10359	0.80000	0.9160	80.00- 120.00	100.00
6.362	6.362 (1.032)	130	9499			74.96- 134.96	91.70

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
111 Trichloroethene (continued)							
6.362	6.362 (1.032)	97	6374			34.80- 94.80	61.53
114 1,2-Dichloropropane					CAS #: 78-87-5		
6.586	6.586 (1.068)	63	5686	0.80000	1.088	80.00- 120.00	100.00
6.586	6.586 (1.068)	62	3461			52.03- 112.03	60.87
6.586	6.586 (1.068)	41	4388			79.97- 139.97	77.17
116 Methyl Methacrylate					CAS #: 80-62-6		
6.664	6.664 (0.774)	69	8883	0.80000	0.9911	80.00- 120.00	100.00
6.664	6.664 (0.774)	41	11902			134.02- 194.02	133.99
6.664	6.664 (0.774)	100	2690			9.54- 69.54	30.28
117 1,4-Dioxane					CAS #: 123-91-1		
6.700	6.699 (1.087)	88	4748	0.80000	0.8314	80.00- 120.00	100.00
6.700	6.699 (1.087)	58	4521			55.80- 115.80	95.22
6.700	6.699 (1.087)	57	1703			8.68- 68.68	35.87
118 Dibromomethane					CAS #: 74-95-3		
6.714	6.721 (0.780)	174	8375	0.80000	0.8390	80.00- 120.00	100.00
6.714	6.721 (0.780)	93	8226			67.27- 127.27	98.22
6.714	6.721 (0.780)	95	7202			50.92- 110.92	85.99
122 Bromodichloromethane					CAS #: 75-27-4		
6.836	6.836 (1.109)	83	15320	0.80000	0.8086	80.00- 120.00	100.00
6.836	6.836 (1.109)	85	9492			34.31- 94.31	61.96
126 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.208	7.208 (1.169)	75	11541	0.80000	0.8196	80.00- 120.00	100.00
7.215	7.208 (1.170)	77	4622			1.42- 61.42	40.05
7.208	7.208 (1.169)	39	7603			38.56- 98.56	65.88
127 Methylcyclohexane					CAS #: 108-87-2		
6.460	6.460 (1.048)	83	13305	0.80000	0.8798	80.00- 120.00	100.00
6.460	6.460 (1.048)	98	6080			15.60- 75.60	45.70
6.460	6.460 (1.048)	55	12160			78.53- 138.53	91.39
131 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.316	7.316 (1.186)	58	7965	0.80000	0.8318	80.00- 120.00	100.00
7.316	7.316 (1.186)	43	20271			231.30- 291.30	254.50
7.316	7.316 (1.186)	85	3326			8.94- 68.94	41.76
$ 134 Toluene-d8					CAS #: 2037-26-5		
7.380	7.387 (1.197)	98	1013202	25.0000	24.901	80.00- 120.00	100.00
7.380	7.387 (1.197)	70	116440			0.00- 41.47	11.49
7.380	7.387 (1.197)	100	669730			36.47- 96.47	66.10

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
137 Toluene						CAS #: 108-88-3	
7.437	7.437 (1.206)	91	24265	0.80000	0.8022	80.00- 120.00	100.00
7.437	7.437 (1.206)	92	14851			28.30- 88.30	61.20
136 Octane						CAS #: 111-65-9	
7.445	7.444 (1.207)	57	8300	0.80000	0.8247	80.00- 120.00	100.00
7.445	7.444 (1.207)	85	8637			67.11- 127.11	104.06
7.437	7.444 (1.206)	43	20072			214.21- 274.21	241.83
139 trans-1,3-Dichloropropene						CAS #: 10061-02-6	
7.688	7.688 (0.893)	75	11323	0.80000	0.8255	80.00- 120.00	100.00
7.688	7.688 (0.893)	77	4369			2.15- 62.15	38.59
7.688	7.688 (0.893)	39	7657			36.09- 96.09	67.62
141 1,1,2-Trichloroethane						CAS #: 79-00-5	
7.839	7.846 (0.910)	97	8646	0.80000	0.8196	80.00- 120.00	100.00
7.846	7.846 (0.911)	99	5360			31.62- 91.62	61.99
7.846	7.846 (0.911)	83	7766			56.35- 116.35	89.82
142 Tetrachloroethene						CAS #: 127-18-4	
7.882	7.881 (0.915)	166	12139	0.80000	0.8320	80.00- 120.00	100.00
7.874	7.881 (0.914)	129	9872			48.71- 108.71	81.32
7.874	7.881 (0.914)	131	8828			46.55- 106.55	72.72
144 1,3-Dichloropropane						CAS #: 142-28-9	
7.989	7.989 (1.296)	76	12215	0.80000	0.8464	80.00- 120.00	100.00
7.989	7.989 (1.296)	41	13111			82.96- 142.96	107.34
7.989	7.989 (1.296)	78	4266			2.55- 62.55	34.92
146 Dibromochloromethane						CAS #: 124-48-1	
8.154	8.154 (0.947)	129	16239	0.80000	0.8114	80.00- 120.00	100.00
8.154	8.154 (0.947)	127	12828			47.77- 107.77	79.00
148 1,2-Dibromoethane (EDB)						CAS #: 106-93-4	
8.261	8.268 (0.959)	107	13011	0.80000	0.7942	80.00- 120.00	100.00(a)
8.261	8.268 (0.959)	109	12882			64.60- 124.60	99.01
* 153 Chlorobenzene-d5						CAS #: 3114-55-4	
8.612	8.619 (1.000)	117	931335	25.0000		80.00- 120.00	100.00
8.612	8.619 (1.000)	82	518350			25.46- 85.46	55.66
154 Chlorobenzene						CAS #: 108-90-7	
8.641	8.641 (1.003)	112	21477	0.80000	0.8437	80.00- 120.00	100.00
8.641	8.641 (1.003)	114	6709			2.13- 62.13	31.24
8.634	8.641 (1.002)	77	14599			26.35- 86.35	67.98

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
155 Ethyl Benzene					CAS #: 100-41-4		
8.684	8.684 (1.008)	106	10291	0.80000	0.8085	80.00- 120.00	100.00
8.684	8.684 (1.008)	91	32077			282.48- 342.48	311.70
156 Nonane					CAS #: 111-84-2		
8.705	8.705 (1.011)	43	21434	0.80000	0.8688	80.00- 120.00	100.00
8.705	8.705 (1.011)	57	19389			59.52- 119.52	90.46
8.705	8.705 (1.011)	85	6369			0.00- 59.76	29.71
158 m,p-Xylene					CAS #: 108-38-3		
8.784	8.784 (1.020)	106	13307	0.80000	0.8404	80.00- 120.00	100.00
8.784	8.784 (1.020)	91	26472			171.36- 231.36	198.93
164 o-Xylene					CAS #: 95-47-6		
9.121	9.128 (1.059)	106	12162	0.80000	0.8090	80.00- 120.00	100.00
9.121	9.128 (1.059)	91	26734			179.99- 239.99	219.82
165 Styrene					CAS #: 100-42-5		
9.149	9.149 (1.062)	104	21835	0.80000	0.8384	80.00- 120.00	100.00
9.149	9.149 (1.062)	78	11448			19.09- 79.09	52.43
167 Bromoform					CAS #: 75-25-2		
9.350	9.350 (1.086)	173	14748	0.80000	0.7772	80.00- 120.00	100.00(a)
9.350	9.350 (1.086)	171	7835			21.45- 81.45	53.13
168 Cumene					CAS #: 98-82-8		
9.407	9.414 (1.092)	105	39345	0.80000	0.8278	80.00- 120.00	100.00
9.414	9.414 (1.093)	120	10793			0.00- 56.99	27.43
9.407	9.407 (1.092)	51	5195			0.00- 41.77	13.20
169 Cyclohexanone					CAS #: 108-94-1		
9.579	9.579 (1.112)	55	14868	0.80000	0.9940	80.00- 120.00	100.00
9.579	9.579 (1.112)	98	4953			9.22- 69.22	33.31
9.579	9.579 (1.112)	42	8629			42.60- 102.60	58.04
$ 170 4-Bromofluorobenzene					CAS #: 460-00-4		
9.601	9.601 (1.115)	174	618262	25.0000	25.098	80.00- 120.00	100.00
9.601	9.601 (1.115)	95	759997			93.06- 153.06	122.92
9.601	9.601 (1.115)	176	579650			62.87- 122.87	93.75
175 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
9.737	9.737 (1.131)	83	19806	0.80000	0.8405	80.00- 120.00	100.00
9.737	9.737 (1.131)	85	12524			34.35- 94.35	63.23
177 Bromobenzene					CAS #: 108-86-1		
9.737	9.729 (1.131)	156	12445	0.80000	0.8423	80.00- 120.00	100.00

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
177 Bromobenzene (continued)							
9.730	9.737 (1.130)	158	12195			67.29- 127.29	97.99
9.730	9.729 (1.130)	77	19823			132.41- 192.41	159.28
178 Propylbenzene					CAS #: 103-65-1		
9.758	9.758 (1.133)	91	45427	0.80000	0.8191	80.00- 120.00	100.00
9.758	9.758 (1.133)	120	10884			0.00- 53.77	23.96
9.758	9.758 (1.133)	105	2279			0.00- 33.81	5.02
179 1,2,3-Trichloropropane					CAS #: 96-18-4		
9.787	9.787 (1.136)	110	5740	0.80000	0.8086	80.00- 120.00	100.00
9.787	9.787 (1.136)	75	18016			285.00- 345.00	313.87
9.787	9.787 (1.136)	61	5058			54.06- 114.06	88.12
181 trans-1,4-Dichloro-2-butene					CAS #: 110-57-6		
9.787	9.787 (1.136)	53	5333	0.80000	0.9495	80.00- 120.00	100.00
9.787	9.787 (1.136)	89	2077			21.19- 81.19	38.95
9.787	9.787 (1.136)	75	18016			372.45- 432.45	337.82
182 Decane					CAS #: 124-18-5		
9.816	9.808 (1.140)	57	24476	0.80000	0.8536	80.00- 120.00	100.00
9.808	9.808 (1.139)	71	9202			4.13- 64.13	37.60
9.816	9.815 (1.140)	142	1267			0.00- 34.73	5.18
183 4-Ethyltoluene					CAS #: 622-96-8		
9.851	9.851 (1.144)	120	11430	0.80000	0.7951	80.00- 120.00	100.00(a)
9.851	9.851 (1.144)	105	38367			296.79- 356.79	335.67
184 2-Chlorotoluene					CAS #: 95-49-8		
9.873	9.873 (1.146)	126	9611	0.80000	0.8229	80.00- 120.00	100.00
9.873	9.873 (1.146)	91	36422			336.29- 396.29	378.96
9.873	9.873 (1.146)	65	3999			38.83- 98.83	41.61
185 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
9.902	9.901 (1.150)	120	16869	0.80000	0.8355	80.00- 120.00	100.00
9.902	9.901 (1.150)	105	35487			176.40- 236.40	210.37
188 alpha Methyl Styrene					CAS #: 98-83-9		
10.102	10.102 (1.173)	118	16440	0.80000	0.7950	80.00- 120.00	100.00(a)
10.109	10.102 (1.174)	103	9786			26.64- 86.64	59.53
189 tert-Butylbenzene					CAS #: 98-06-6		
10.167	10.174 (1.180)	119	31573	0.80000	0.8499	80.00- 120.00	100.00
10.174	10.174 (1.181)	134	7634			0.00- 54.82	24.18
10.167	10.174 (1.180)	91	21604			36.92- 96.92	68.43

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
190 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
10.224	10.224 (1.187)	105	32978	0.80000	0.8283	80.00- 120.00	100.00
10.224	10.224 (1.187)	120	15023			16.58- 76.58	45.55
192 sec-Butylbenzene					CAS #: 135-98-8		
10.353	10.360 (1.202)	134	10197	0.80000	0.8498	80.00- 120.00	100.00
10.353	10.360 (1.202)	105	48258			451.53- 511.53	473.26
10.353	10.353 (1.202)	91	8204			46.48- 106.48	80.46
194 p-Cymene					CAS #: 99-87-6		
10.467	10.467 (1.215)	119	40402	0.80000	0.8040	80.00- 120.00	100.00
10.467	10.467 (1.215)	134	11326			0.00- 56.79	28.03
10.467	10.467 (1.215)	91	9885			0.00- 54.04	24.47
195 1,3-Dichlorobenzene					CAS #: 541-73-1		
10.518	10.517 (1.221)	146	21976	0.80000	0.8125	80.00- 120.00	100.00
10.518	10.517 (1.221)	148	14046			33.53- 93.53	63.92
10.518	10.517 (1.221)	111	9550			11.05- 71.05	43.46
196 1,4-Dichlorobenzene					CAS #: 106-46-7		
10.596	10.596 (1.230)	146	22766	0.80000	0.8171	80.00- 120.00	100.00
10.596	10.596 (1.230)	148	15056			33.47- 93.47	66.13
10.596	10.596 (1.230)	111	9088			9.65- 69.65	39.92
199 alpha-Chlorotoluene					CAS #: 100-44-7		
10.711	10.711 (1.244)	91	29877	0.80000	0.7799	80.00- 120.00	100.00(a)
10.711	10.711 (1.244)	126	6621			0.00- 52.04	22.16
201 Undecane					CAS #: 1120-21-4		
10.804	10.804 (1.254)	57	29237	0.80000	0.8652	80.00- 120.00	100.00
10.804	10.804 (1.254)	43	25734			55.86- 115.86	88.02
202 Butylbenzene					CAS #: 104-51-8		
10.818	10.818 (1.256)	134	10284	0.80000	0.7893	80.00- 120.00	100.00(a)
10.818	10.818 (1.256)	91	38305			331.99- 391.99	372.47
10.818	10.818 (1.256)	92	20988			161.01- 221.01	204.08
204 1,2-Dichlorobenzene					CAS #: 95-50-1		
10.919	10.926 (1.268)	146	21022	0.80000	0.8043	80.00- 120.00	100.00
10.919	10.926 (1.268)	148	13579			33.23- 93.23	64.59
10.919	10.918 (1.268)	111	9180			12.36- 72.36	43.67
207 Dodecane					CAS #: 112-40-3		
11.714	11.714 (1.360)	57	28096	0.98880	0.9833	80.00- 120.00	100.00
11.714	11.714 (1.360)	43	23611			50.85- 110.85	84.04

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
213 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
12.301	12.301 (1.428)	180	19676	1.00720	1.060	80.00- 120.00	100.00
12.301	12.301 (1.428)	182	18474			65.40- 125.40	93.89
215 Hexachlorobutadiene					CAS #: 87-68-3		
12.387	12.387 (1.438)	225	15576	1.02960	1.111	80.00- 120.00	100.00
12.380	12.387 (1.437)	223	9805			33.70- 93.70	62.95
216 Naphthalene					CAS #: 91-20-3		
12.552	12.552 (1.457)	128	7246	0.10160	0.1278	80.00- 120.00	100.00(a)
12.559	12.552 (1.458)	127	730			0.00- 43.10	10.07
222 1,2,3-Trichlorobenzene					CAS #: 87-61-6		
12.803	12.802 (1.487)	180	19480	1.06480	1.147	80.00- 120.00	100.00
12.803	12.802 (1.487)	182	18041			65.67- 125.67	92.61
12.803	12.802 (1.487)	145	7042			6.02- 66.02	36.15

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd3.i
Lab File ID: 3062217.d
Lab Smp Id: ICAL Level 5
Analysis Type: VOA
Quant Type: ISTD
Operator: LD
Method File: /chem/msd3.i/22JUN21.b/321q0622a.m
Misc Info: 0.8ppbv (5.0ppbv)

Calibration Date: 22-JUN-2021
Calibration Time: 23:12
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	243405	146043	340767	272204	11.83
108 1,4-Difluorobenze	874076	524446	1223706	987880	13.02
153 Chlorobenzene-d5	831223	498734	1163712	931335	12.04

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.28	4.95	5.61	5.27	-0.26
108 1,4-Difluorobenze	6.18	5.85	6.51	6.17	-0.22
153 Chlorobenzene-d5	8.62	8.29	8.95	8.61	-0.08

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msd3.i/22JUN21.b/3062217.d

Date : 22-JUN-2021 21:22

Client ID:

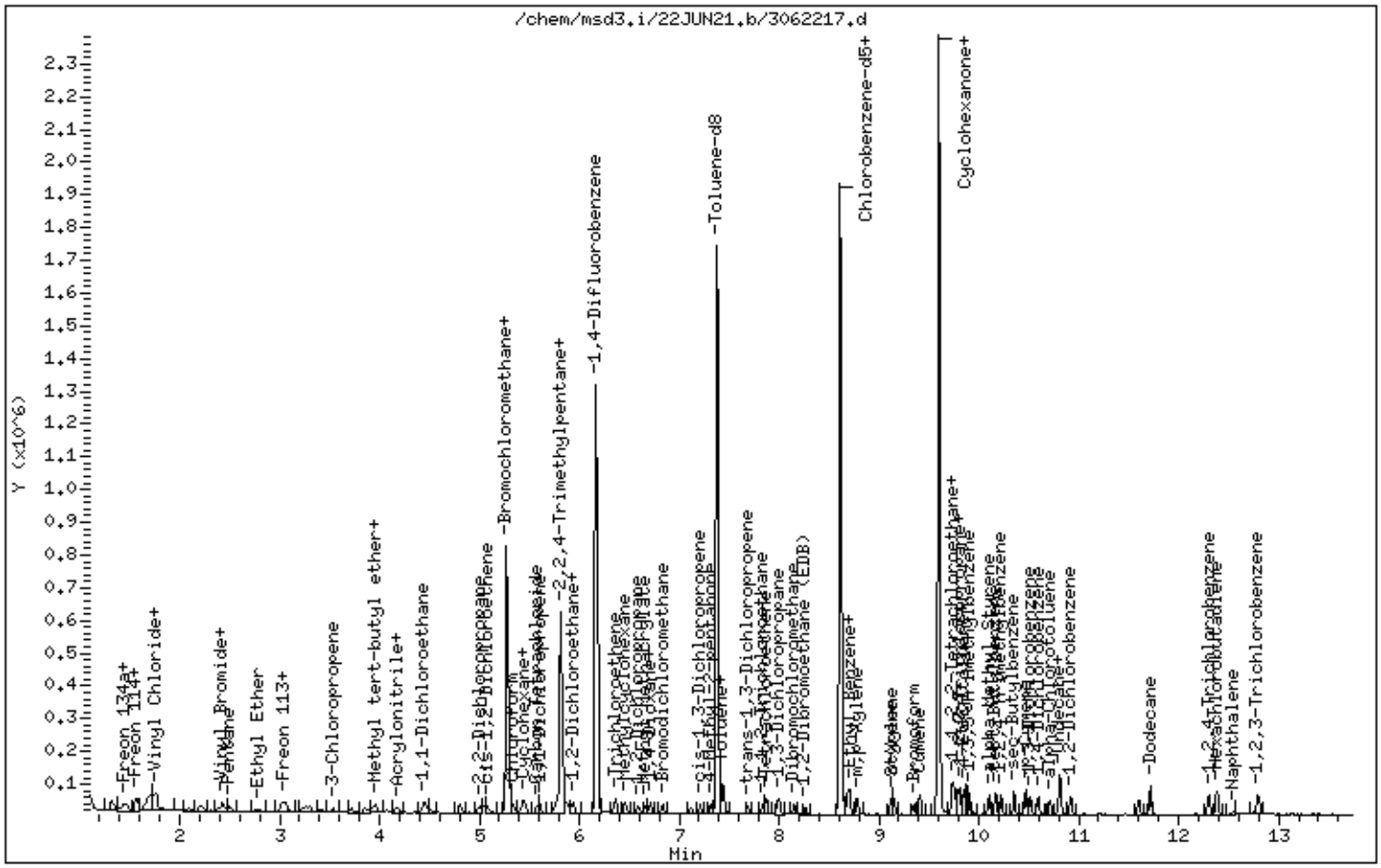
Instrument: msd3.i

Sample Info: 32mL 3018-2116

Operator: LD

Column phase: RTX-624

Column diameter: 0.25



US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msd3.i/22JUN21.b/3062207.d
Lab Smp Id: ICAL Level 6
Inj Date : 22-JUN-2021 16:44
Operator : LD Inst ID: msd3.i
Smp Info : 80mL 3018-2078
Misc Info : 2.0ppbv (5.0ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msd3.i/22JUN21.b/321q0622a.m
Meth Date : 23-Jun-2021 12:22 lk8g Quant Type: ISTD
Cal Date : 22-JUN-2021 21:49 Cal File: 3062218.d
Als bottle: 4 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT20spICAL.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 90 Bromochloromethane					CAS #: 74-97-5		
5.270	5.284 (1.000)	130	289885	25.0000		80.00- 120.00	100.00
5.270	5.284 (1.000)	128	226876			48.46- 108.46	78.26
5.270	5.270 (1.000)	49	433966			120.39- 180.39	149.70
* 108 1,4-Difluorobenzene					CAS #: 540-36-3		
6.166	6.180 (1.000)	114	1078094	25.0000		80.00- 120.00	100.00
6.166	6.180 (1.000)	88	166843			0.00- 45.52	15.48
* 153 Chlorobenzene-d5					CAS #: 3114-55-4		
8.612	8.619 (1.000)	117	1013628	25.0000		80.00- 120.00	100.00
8.612	8.619 (1.000)	82	556752			25.46- 85.46	54.93
3 Freon 143a					CAS #: 420-46-2		
1.353	1.353 (0.257)	65	9112	2.00000	1.879	80.00- 120.00	100.00(a)
1.353	1.353 (0.257)	69	25781			217.09- 277.09	282.93
1.353	1.353 (0.257)	64	3486			0.00- 55.87	38.26
6 Propane					CAS #: 74-98-6		
1.437	1.422 (0.273)	43	5991	2.00000	2.268	80.00- 120.00	100.00

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
6 Propane (continued)							
1.423	1.422 (0.270)	39	5192			41.62- 101.62	86.66
1.423	1.422 (0.270)	41	5108			22.97- 82.97	85.26
13 Freon 142b					CAS #: 75-68-3		
1.605	1.604 (0.304)	65	31251	2.00000	2.027	80.00- 120.00	100.00
1.605	1.604 (0.304)	45	8855			0.00- 58.17	28.34
36 1-Pentene					CAS #: 109-67-1		
2.444	2.444 (0.464)	55	19586	2.00000	2.000	80.00- 120.00	100.00(a)
2.444	2.444 (0.464)	42	30145			99.17- 159.17	153.91
40 Freon 123a					CAS #: 354-23-4		
2.878	2.878 (0.546)	117	22862	2.00000	2.005	80.00- 120.00	100.00(a)
2.878	2.878 (0.546)	67	30241			103.13- 163.13	132.28
41 Freon 123					CAS #: 306-83-2		
2.976	2.976 (0.565)	83	33539	2.00000	2.005	80.00- 120.00	100.00
2.976	2.976 (0.565)	133	8415			0.00- 51.81	25.09
2.976	2.976 (0.565)	85	25176			37.13- 97.13	75.06
55 Cyclopentene					CAS #: 142-29-0		
3.549	3.549 (0.673)	67	35921	2.00000	2.018	80.00- 120.00	100.00
3.549	3.549 (0.673)	68	15513			7.90- 67.90	43.19
3.549	3.549 (0.673)	53	8899			0.00- 54.87	24.77
56 Methyl Acetate					CAS #: 79-20-9		
3.591	3.577 (0.681)	43	38592	2.00000	2.104	80.00- 120.00	100.00(a)
3.591	3.577 (0.681)	74	7357			0.00- 47.15	19.06
74 Chloroprene					CAS #: 126-99-8		
4.501	4.515 (0.854)	53	30781	2.00000	1.981	80.00- 120.00	100.00(a)
4.501	4.515 (0.854)	88	13327			12.33- 72.33	43.30
4.501	4.515 (0.854)	50	10224			0.00- 57.62	33.22
75 1-Propanol					CAS #: 71-23-8		
4.627	4.613 (0.878)	59	6485	2.00000	2.700	80.00- 120.00	100.00
4.627	4.613 (0.878)	42	4281			53.89- 113.89	66.01
4.585	4.613 (0.870)	41	119			24.09- 84.09	1.84
88 Methyl Acrylate					CAS #: 96-33-3		
5.145	5.130 (0.976)	55	38691	2.00000	2.072	80.00- 120.00	100.00(a)
5.145	5.130 (0.976)	85	6532			0.00- 43.24	16.88
5.131	5.130 (0.973)	58	5015			0.00- 38.83	12.96
103 Isobutanol					CAS #: 78-83-1		
5.788	5.774 (1.098)	39	11582	2.00000	3.376	80.00- 120.00	100.00(a)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
103 Isobutanol (continued)							
5.788	5.774 (1.098)	43	23653			327.69- 387.69	204.22
5.788	5.774 (1.098)	41	18940			237.56- 297.56	163.53
113 Ethyl acrylate					CAS #: 140-88-5		
6.460	6.474 (0.750)	99	3656	2.00000	2.257	80.00- 120.00	100.00
6.460	6.460 (0.750)	45	5038			124.67- 184.67	137.80
6.460	6.460 (0.750)	55	60018			1601.30-1661.30	1641.63
115 2-Pentanone					CAS #: 107-87-9		
6.558	6.557 (0.761)	43	90325	2.00000	2.384	80.00- 120.00	100.00
6.558	6.557 (0.761)	58	7067			0.00- 37.25	7.82
6.558	6.557 (0.761)	86	12465			0.00- 45.08	13.80
145 Butyl Acetate					CAS #: 123-86-4		
8.068	8.068 (1.308)	56	32281	2.00000	2.271	80.00- 120.00	100.00(a)
8.068	8.068 (1.308)	73	11495			5.16- 65.16	35.61
8.068	8.068 (1.308)	43	75753			214.00- 274.00	234.67
157 1,1,1,2-Tetrachloroethane					CAS #: 630-20-6		
8.712	8.712 (1.012)	131	28819	2.00000	1.890	80.00- 120.00	100.00(a)
8.705	8.712 (1.011)	117	23948			38.22- 98.22	83.10
8.705	8.712 (1.011)	95	10938			7.54- 67.54	37.95
166 2-Heptanone					CAS #: 110-43-0		
9.221	9.221 (1.750)	58	48202	2.00000	2.265	80.00- 120.00	100.00
9.221	9.221 (1.750)	43	77902			133.36- 193.36	161.62
172 D-Limonene					CAS #: 5989-27-5		
10.417	10.417 (1.210)	68	33744	2.00000	1.832	80.00- 120.00	100.00(a)
10.417	10.424 (1.210)	93	24954			42.08- 102.08	73.95
186 4-Chlorotoluene					CAS #: 106-43-4		
9.966	9.973 (1.157)	126	26881	2.00000	2.025	80.00- 120.00	100.00
9.966	9.966 (1.157)	91	88725			305.94- 365.94	330.07
9.966	9.966 (1.157)	63	12715			15.44- 75.44	47.30
197 1,2,3-Trimethylbenzene					CAS #: 526-73-8		
10.596	10.596 (1.230)	120	35829	2.00000	1.969	80.00- 120.00	100.00(a)
10.589	10.596 (1.230)	105	84796			206.43- 266.43	236.67
10.589	10.596 (1.230)	77	11184			0.00- 58.29	31.21
205 Hexachloroethane					CAS #: 67-72-1		
11.098	11.098 (1.289)	201	20332	2.00000	1.831	80.00- 120.00	100.00(a)
11.098	11.098 (1.289)	117	28407			109.77- 169.77	139.72

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
208 1,3,5-Trichlorobenzene					CAS #: 108-70-3		
11.721	11.728 (1.361)	180	51309	2.00000	2.119	80.00- 120.00	100.00
11.721	11.728 (1.361)	182	47707			65.79- 125.79	92.98
210 alpha-Pinene					CAS #: 80-56-8		
9.364	9.371 (1.087)	93	62865	2.00000	2.006	80.00- 120.00	100.00
9.364	9.371 (1.087)	77	18260			0.13- 60.13	29.05
214 beta-Pinene					CAS #: 127-91-3		
9.945	9.944 (1.155)	93	48258	2.00000	1.960	80.00- 120.00	100.00(a)
9.966	9.966 (1.157)	91	88725			145.95- 205.95	183.86

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd3.i
Lab File ID: 3062207.d
Lab Smp Id: ICAL Level 6
Analysis Type: VOA
Quant Type: ISTD
Operator: LD
Method File: /chem/msd3.i/22JUN21.b/321q0622a.m
Misc Info: 2.0ppbv (5.0ppbv)

Calibration Date: 22-JUN-2021
Calibration Time: 23:12
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	243405	146043	340767	289885	19.10
108 1,4-Difluorobenze	874076	524446	1223706	1078094	23.34
153 Chlorobenzene-d5	831223	498734	1163712	1013628	21.94

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.28	4.95	5.61	5.27	-0.26
108 1,4-Difluorobenze	6.18	5.85	6.51	6.17	-0.22
153 Chlorobenzene-d5	8.62	8.29	8.95	8.61	-0.08

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msd3.i/22JUN21.b/3062207.d

Date : 22-JUN-2021 16:44

Client ID:

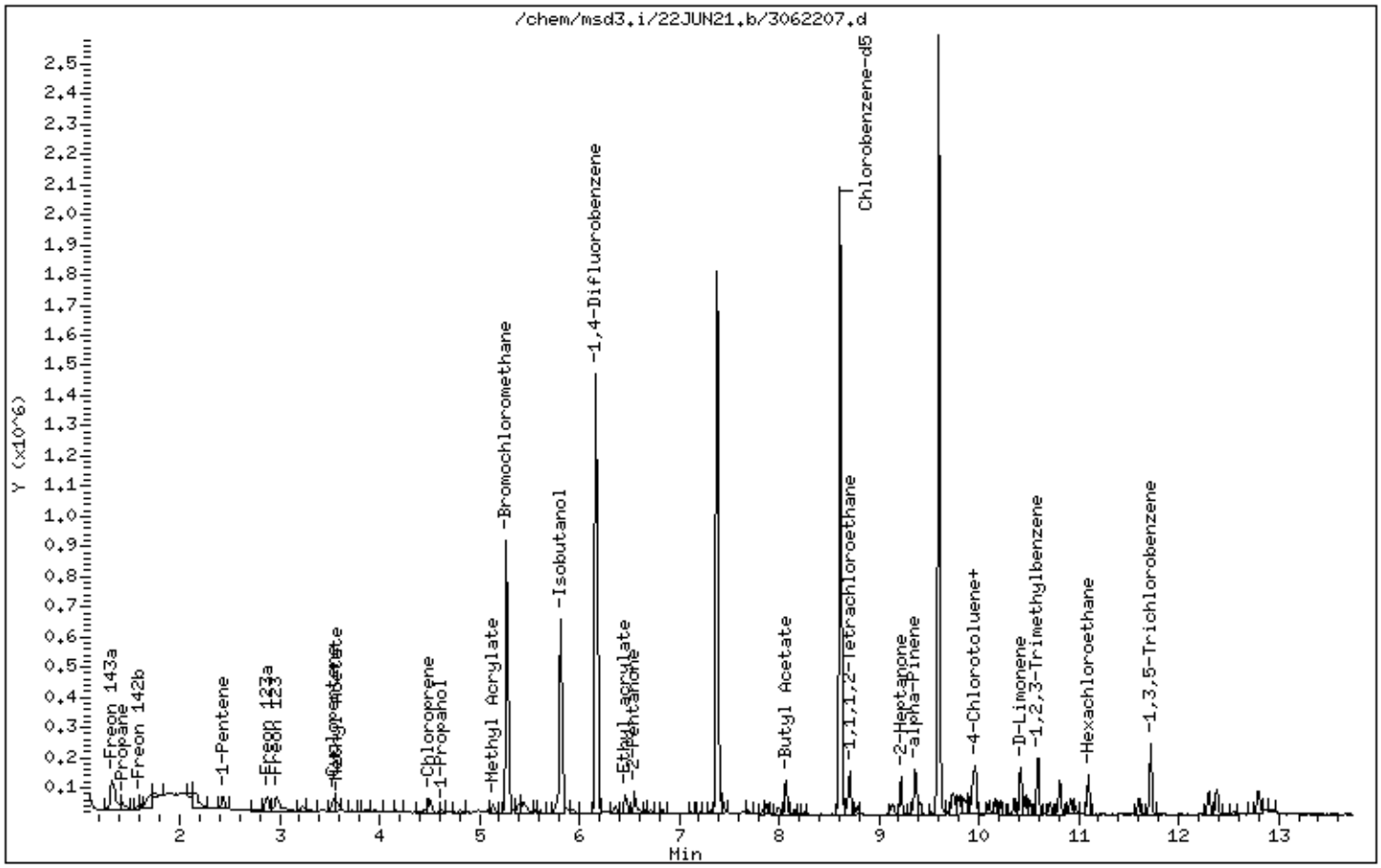
Instrument: msd3.i

Sample Info: 80mL 3018-2078

Operator: LD

Column phase: RTX-624

Column diameter: 0.25



US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msd3.i/22JUN21.b/3062218.d
Lab Smp Id: ICAL Level 6
Inj Date : 22-JUN-2021 21:49
Operator : LD Inst ID: msd3.i
Smp Info : 80mL 3018-2116
Misc Info : 2.0ppbv (5.0ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msd3.i/22JUN21.b/321q0622a.m
Meth Date : 23-Jun-2021 12:22 lk8g Quant Type: ISTD
Cal Date : 22-JUN-2021 21:49 Cal File: 3062218.d
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT20ICAL.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
4 Freon 134a					CAS #: 811-97-2		
1.395	1.395 (0.264)	83	12527	2.00000	2.033	80.00- 120.00	100.00
1.395	1.395 (0.264)	69	10184			51.82- 111.82	81.30
1.493	1.479 (0.282)	51	30849			194.91- 254.91	246.26
5 Propylene					CAS #: 115-07-1		
1.423	1.423 (0.269)	41	13499	2.00000	2.158	80.00- 120.00	100.00
1.437	1.423 (0.272)	42	8457			35.61- 95.61	62.65
1.437	1.423 (0.272)	39	10196			42.66- 102.66	75.53
7 1,1-Difluoroethane					CAS #: 75-37-6		
1.437	1.437 (0.272)	65	9568	2.00000	2.347	80.00- 120.00	100.00
1.493	1.479 (0.282)	51	30849			321.86- 381.86	322.42
1.451	1.437 (0.275)	47	7395			45.34- 105.34	77.29
8 Freon 12					CAS #: 75-71-8		
1.465	1.465 (0.277)	85	35619	2.00000	1.975	80.00- 120.00	100.00
1.465	1.465 (0.277)	87	12194			2.63- 62.63	34.23
9 Chlorodifluoromethane					CAS #: 75-45-6		
1.493	1.479 (0.282)	67	3999	2.00000	2.017	80.00- 120.00	100.00

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
9 Chlorodifluoromethane (continued)							
1.493	1.479 (0.282)	51	30849			719.76- 779.76	771.42
10 Freon 114					CAS #: 76-14-2		
1.563	1.562 (0.296)	135	27960	2.00000	2.092	80.00- 120.00	100.00
1.563	1.562 (0.296)	137	9352			2.12- 62.12	33.45
12 Isobutane					CAS #: 75-28-5		
1.577	1.576 (0.298)	43	29938	2.00000	2.130	80.00- 120.00	100.00
1.577	1.576 (0.298)	42	9552			2.44- 62.44	31.91
1.577	1.576 (0.298)	58	2044			0.00- 33.26	6.83
15 Chloromethane					CAS #: 74-87-3		
1.647	1.646 (0.312)	50	17143	2.00000	2.287	80.00- 120.00	100.00
1.647	1.646 (0.312)	52	5650			2.41- 62.41	32.96
18 Butane					CAS #: 106-97-8		
1.703	1.702 (0.322)	58	4166	2.00000	2.353	80.00- 120.00	100.00
1.703	1.702 (0.322)	43	35051			727.41- 787.41	841.36
19 Vinyl Chloride					CAS #: 75-01-4		
1.745	1.744 (0.330)	62	16334	2.00000	2.036	80.00- 120.00	100.00
1.745	1.744 (0.330)	64	5799			1.28- 61.28	35.50
20 1,3-Butadiene					CAS #: 106-99-0		
1.759	1.758 (0.333)	54	15099	2.00000	2.054	80.00- 120.00	100.00
1.759	1.758 (0.333)	39	18165			69.23- 129.23	120.31
24 Bromomethane					CAS #: 74-83-9		
2.094	2.094 (0.396)	94	13943	2.00000	2.198	80.00- 120.00	100.00
2.094	2.094 (0.396)	96	12872			62.78- 122.78	92.32
30 Chloroethane					CAS #: 75-00-3		
2.206	2.206 (0.417)	64	8314	2.00000	2.208	80.00- 120.00	100.00
2.206	2.206 (0.417)	66	3518			1.44- 61.44	42.31
2.192	2.206 (0.415)	49	3656			4.12- 64.12	43.97
31 Isopentane					CAS #: 78-78-4		
2.220	2.220 (0.420)	43	20620	2.00000	2.141	80.00- 120.00	100.00
2.220	2.220 (0.420)	57	14321			38.82- 98.82	69.45
32 Vinyl Bromide					CAS #: 593-60-2		
2.388	2.388 (0.452)	106	14365	2.00000	2.082	80.00- 120.00	100.00
2.388	2.388 (0.452)	108	13693			63.14- 123.14	95.32
33 Freon 11					CAS #: 75-69-4		
2.430	2.430 (0.460)	101	40281	2.00000	2.111	80.00- 120.00	100.00

				AMOUNTS				
					CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE		(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========		=======	=======	==========	=====
33 Freon 11 (continued)								
2.430	2.430 (0.460)	103	26149				35.12- 95.12	64.92
34 Dichlorofluoromethane						CAS #: 75-43-4		
2.444	2.444 (0.463)	67	32346	2.00000		2.120	80.00- 120.00	100.00
2.444	2.444 (0.463)	69	12285				0.74- 60.74	37.98
35 Pentane						CAS #: 109-66-0		
2.500	2.500 (0.473)	43	32710	2.00000		2.132	80.00- 120.00	100.00
2.500	2.500 (0.473)	57	5841				0.00- 45.97	17.86
2.500	2.500 (0.473)	72	3353				0.00- 38.10	10.25
38 Ethyl Ether						CAS #: 60-29-7		
2.794	2.780 (0.529)	74	7733	2.00000		2.248	80.00- 120.00	100.00
2.794	2.780 (0.529)	59	13463				147.68- 207.68	174.10
2.780	2.780 (0.526)	45	15377				206.40- 266.40	198.85
39 Ethanol						CAS #: 64-17-5		
2.780	2.766 (0.526)	46	4305	2.00000		2.788	80.00- 120.00	100.00
2.780	2.780 (0.526)	45	15543				523.01- 583.01	361.05
42 Acrolein						CAS #: 107-02-8		
3.032	3.032 (0.574)	55	5657	2.00000		2.208	80.00- 120.00	100.00
3.046	3.032 (0.576)	56	7738				110.33- 170.33	136.79
43 Freon 113						CAS #: 76-13-1		
3.032	3.032 (0.574)	151	26736	2.00000		2.049	80.00- 120.00	100.00
3.046	3.032 (0.576)	153	17279				33.72- 93.72	64.63
3.032	3.032 (0.574)	101	32869				89.67- 149.67	122.94
44 1,1-Dichloroethene						CAS #: 75-35-4		
3.074	3.074 (0.582)	96	16520	2.00000		2.102	80.00- 120.00	100.00
3.074	3.074 (0.582)	98	10176				33.39- 93.39	61.60
3.074	3.074 (0.582)	61	30134				163.82- 223.82	182.41
47 Acetone						CAS #: 67-64-1		
3.228	3.213 (0.611)	58	10661	2.00000		2.456	80.00- 120.00	100.00
3.228	3.213 (0.611)	43	29629				299.66- 359.66	277.92
48 Carbon Disulfide						CAS #: 75-15-0		
3.298	3.297 (0.624)	76	42623	2.00000		2.180	80.00- 120.00	100.00
49 Iodomethane						CAS #: 74-88-4		
3.270	3.269 (0.619)	142	34373	2.00000		2.033	80.00- 120.00	100.00
3.270	3.269 (0.619)	127	15306				14.58- 74.58	44.53

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
52 2-Propanol					CAS #: 67-63-0		
3.410	3.395 (0.645)	45	32159	2.00000	2.060	80.00- 120.00	100.00
3.410	3.395 (0.645)	43	7570			0.00- 48.61	23.54
54 3-Chloropropene					CAS #: 107-05-1		
3.535	3.535 (0.669)	76	7206	2.00000	2.141	80.00- 120.00	100.00
3.535	3.535 (0.669)	41	24505			338.06- 398.06	340.06
57 Acetonitrile					CAS #: 75-05-8		
3.647	3.633 (0.690)	41	14594	2.00000	2.135	80.00- 120.00	100.00
3.647	3.633 (0.690)	40	8254			21.81- 81.81	56.56
3.647	3.633 (0.690)	38	2096			0.00- 41.86	14.36
59 Methylene Chloride					CAS #: 75-09-2		
3.717	3.717 (0.703)	49	23256	2.00000	2.238	80.00- 120.00	100.00
3.717	3.717 (0.703)	84	14521			30.77- 90.77	62.44
3.717	3.717 (0.703)	51	8384			1.39- 61.39	36.05
62 tert-Butyl alcohol					CAS #: 75-65-0		
3.871	3.857 (0.733)	59	42838	2.00000	2.186	80.00- 120.00	100.00
3.857	3.857 (0.730)	41	7649			0.00- 51.05	17.86
3.857	3.857 (0.730)	57	4880			0.00- 41.68	11.39
63 Methyl tert-butyl ether					CAS #: 1634-04-4		
3.941	3.941 (0.746)	73	44430	2.00000	2.100	80.00- 120.00	100.00
3.941	3.941 (0.746)	57	12345			0.00- 58.86	27.79
3.941	3.941 (0.746)	41	13055			0.00- 57.27	29.38
64 trans-1,2-Dichloroethene					CAS #: 156-60-5		
3.969	3.969 (0.751)	98	10676	2.00000	2.019	80.00- 120.00	100.00
3.969	3.969 (0.751)	61	27646			244.59- 304.59	258.95
3.969	3.969 (0.751)	96	15803			129.84- 189.84	148.02
66 Acrylonitrile					CAS #: 107-13-1		
4.067	4.067 (0.770)	52	13614	2.00000	2.145	80.00- 120.00	100.00
4.067	4.067 (0.770)	53	12537			88.50- 148.50	92.09
67 Hexane					CAS #: 110-54-3		
4.179	4.179 (0.791)	57	28960	2.00000	2.020	80.00- 120.00	100.00
4.179	4.179 (0.791)	43	19813			32.99- 92.99	68.42
4.179	4.179 (0.791)	86	3928			0.00- 42.56	13.56
71 1,1-Dichloroethane					CAS #: 75-34-3		
4.459	4.459 (0.844)	63	30061	2.00000	2.039	80.00- 120.00	100.00
4.459	4.459 (0.844)	65	9575			0.76- 60.76	31.85

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
72 Isopropyl ether						CAS #: 108-20-3	
4.445	4.445 (0.841)	45	62946	2.00000	2.080	80.00- 120.00	100.00
4.445	4.445 (0.841)	87	13914			0.00- 51.37	22.10
4.445	4.445 (0.841)	59	8128			0.00- 41.09	12.91
73 Vinyl Acetate						CAS #: 108-05-4	
4.501	4.501 (0.852)	86	4157	2.00000	2.293	80.00- 120.00	100.00
4.501	4.501 (0.852)	43	51442			1391.63-1451.63	1237.48
79 Ethyl-tert-butyl ether						CAS #: 637-92-3	
4.809	4.809 (0.910)	59	62324	2.00000	2.133	80.00- 120.00	100.00
4.809	4.809 (0.910)	87	19376			3.22- 63.22	31.09
4.809	4.809 (0.910)	41	11767			0.00- 48.12	18.88
84 2,2-Dichloropropane						CAS #: 594-20-7	
5.005	5.004 (0.947)	77	28668	2.00000	2.087	80.00- 120.00	100.00
5.005	5.004 (0.947)	79	9974			2.00- 62.00	34.79
5.005	5.004 (0.947)	97	7911			0.00- 53.36	27.60
85 cis-1,2-Dichloroethene						CAS #: 156-59-2	
5.047	5.046 (0.955)	98	11370	2.00000	2.169	80.00- 120.00	100.00
5.047	5.046 (0.955)	96	15084			127.22- 187.22	132.66
5.047	5.046 (0.955)	61	25421			283.85- 343.85	223.58
86 2-Butanone						CAS #: 78-93-3	
5.075	5.074 (0.960)	72	7851	2.00000	2.144	80.00- 120.00	100.00
5.089	5.074 (0.963)	43	78294			1055.75-1115.75	997.25
5.075	5.074 (0.960)	57	3411			10.59- 70.59	43.45
87 Ethyl Acetate						CAS #: 141-78-6	
5.089	5.088 (0.963)	45	5709	2.00000	1.891	80.00- 120.00	100.00
5.047	5.046 (0.955)	61	25421			450.31- 510.31	445.28
5.089	5.088 (0.963)	70	4574			30.42- 90.42	80.12
89 Tetrahydrofuran						CAS #: 109-99-9	
5.284	5.270 (1.000)	42	21705	2.00000	2.102	80.00- 120.00	100.00
5.284	5.270 (1.000)	71	8067			2.92- 62.92	37.17
5.284	5.270 (1.000)	72	7888			3.54- 63.54	36.34
* 90 Bromochloromethane						CAS #: 74-97-5	
5.284	5.284 (1.000)	130	258917	25.0000		80.00- 120.00	100.00
5.284	5.284 (1.000)	128	201783			48.46- 108.46	77.93
5.270	5.270 (1.000)	49	385968			120.39- 180.39	149.07
92 Chloroform						CAS #: 67-66-3	
5.340	5.340 (1.011)	83	33357	2.00000	2.055	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
92 Chloroform (continued)							
5.340	5.340 (1.011)	85	21529			34.71- 94.71	64.54
94 Cyclohexane					CAS #: 110-82-7		
5.438	5.438 (1.029)	84	20996	2.00000	2.046	80.00- 120.00	100.00
5.438	5.438 (1.029)	56	29244			120.40- 180.40	139.28
5.438	5.438 (1.029)	41	17106			54.20- 114.20	81.47
96 1,1,1-Trichloroethane					CAS #: 71-55-6		
5.452	5.466 (1.032)	97	36438	2.00000	1.997	80.00- 120.00	100.00
5.466	5.466 (1.034)	99	22845			33.76- 93.76	62.70
97 Carbon Tetrachloride					CAS #: 56-23-5		
5.578	5.578 (1.056)	119	33059	2.00000	1.967	80.00- 120.00	100.00
5.578	5.578 (1.056)	117	33894			73.68- 133.68	102.53
99 1,1-Dichloropropene					CAS #: 563-58-6		
5.606	5.606 (0.909)	110	8789	2.00000	2.041	80.00- 120.00	100.00
5.606	5.606 (0.909)	75	23996			231.09- 291.09	273.02
101 2,2,4-Trimethylpentane					CAS #: 540-84-1		
5.774	5.774 (1.093)	57	89726	2.00000	2.001	80.00- 120.00	100.00
5.774	5.774 (1.093)	56	27046			1.12- 61.12	30.14
5.774	5.774 (1.093)	41	25210			0.00- 57.49	28.10
102 Benzene					CAS #: 71-43-2		
5.788	5.788 (0.939)	78	43228	2.00000	2.002	80.00- 120.00	100.00
5.788	5.788 (0.939)	77	11463			0.00- 53.80	26.52
$ 104 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
5.816	5.816 (1.101)	65	359531	25.0000	25.233	80.00- 120.00	100.00
5.816	5.816 (1.101)	67	173715			21.66- 81.66	48.32
105 tert-Amyl methyl ether					CAS #: 994-05-8		
5.858	5.858 (0.950)	87	12051	2.00000	2.094	80.00- 120.00	100.00
5.858	5.858 (0.950)	73	46557			365.20- 425.20	386.33
5.858	5.858 (0.950)	55	13263			91.31- 151.31	110.06
106 1,2-Dichloroethane					CAS #: 107-06-2		
5.886	5.886 (0.955)	62	25443	2.00000	2.047	80.00- 120.00	100.00
5.886	5.886 (0.955)	64	8919			1.20- 61.20	35.05
107 Heptane					CAS #: 142-82-5		
5.942	5.942 (0.964)	71	15716	2.00000	1.848	80.00- 120.00	100.00
5.942	5.942 (0.964)	43	33799			179.02- 239.02	215.06
5.942	5.942 (0.964)	57	17903			84.85- 144.85	113.92

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
* 108 1,4-Difluorobenzene					CAS #: 540-36-3		
6.166	6.180 (1.000)	114	946034	25.0000		80.00- 120.00	100.00
6.166	6.180 (1.000)	88	148259			0.00- 45.52	15.67
110 n-Butanol					CAS #: 71-36-3		
6.362	6.348 (1.032)	56	14330	2.00000	2.071	80.00- 120.00	100.00
6.362	6.348 (1.032)	41	10628			40.21- 100.21	74.17
6.348	6.348 (1.030)	43	7980			25.00- 85.00	55.69
111 Trichloroethene					CAS #: 79-01-6		
6.362	6.362 (1.032)	95	22037	2.00000	2.035	80.00- 120.00	100.00
6.362	6.362 (1.032)	130	22117			74.96- 134.96	100.36
6.362	6.362 (1.032)	97	14434			34.80- 94.80	65.50
114 1,2-Dichloropropane					CAS #: 78-87-5		
6.586	6.586 (1.068)	63	11804	2.00000	2.359	80.00- 120.00	100.00
6.586	6.586 (1.068)	62	7528			52.03- 112.03	63.77
6.586	6.586 (1.068)	41	8139			79.97- 139.97	68.95
116 Methyl Methacrylate					CAS #: 80-62-6		
6.664	6.664 (0.774)	69	16998	2.00000	1.970	80.00- 120.00	100.00
6.664	6.664 (0.774)	41	28082			134.02- 194.02	165.21
6.664	6.664 (0.774)	100	6257			9.54- 69.54	36.81
117 1,4-Dioxane					CAS #: 123-91-1		
6.700	6.699 (1.087)	88	11392	2.00000	2.083	80.00- 120.00	100.00
6.700	6.699 (1.087)	58	9905			55.80- 115.80	86.95
6.700	6.699 (1.087)	57	3944			8.68- 68.68	34.62
118 Dibromomethane					CAS #: 74-95-3		
6.714	6.721 (0.780)	174	18752	2.00000	1.952	80.00- 120.00	100.00
6.714	6.721 (0.780)	93	19344			67.27- 127.27	103.16
6.714	6.721 (0.780)	95	16647			50.92- 110.92	88.77
122 Bromodichloromethane					CAS #: 75-27-4		
6.836	6.836 (1.109)	83	35603	2.00000	1.962	80.00- 120.00	100.00
6.836	6.836 (1.109)	85	22516			34.31- 94.31	63.24
126 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.208	7.208 (1.169)	75	26840	2.00000	1.990	80.00- 120.00	100.00
7.208	7.208 (1.169)	77	9456			1.42- 61.42	35.23
7.208	7.208 (1.169)	39	18349			38.56- 98.56	68.36
127 Methylcyclohexane					CAS #: 108-87-2		
6.460	6.460 (1.048)	83	28700	2.00000	1.982	80.00- 120.00	100.00(a)
6.460	6.460 (1.048)	98	13249			15.60- 75.60	46.16

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
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127 Methylcyclohexane (continued)							
6.460	6.460 (1.048)	55	28200			78.53- 138.53	98.26
131 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.316	7.316 (1.186)	58	17181	2.00000	1.874	80.00- 120.00	100.00
7.316	7.316 (1.186)	43	45888			231.30- 291.30	267.09
7.316	7.316 (1.186)	85	7262			8.94- 68.94	42.27
$ 134 Toluene-d8					CAS #: 2037-26-5		
7.380	7.387 (1.197)	98	970823	25.0000	24.915	80.00- 120.00	100.00
7.380	7.387 (1.197)	70	111479			0.00- 41.47	11.48
7.387	7.387 (1.198)	100	636499			36.47- 96.47	65.56
137 Toluene					CAS #: 108-88-3		
7.437	7.437 (1.206)	91	57171	2.00000	1.974	80.00- 120.00	100.00
7.437	7.437 (1.206)	92	33030			28.30- 88.30	57.77
136 Octane					CAS #: 111-65-9		
7.445	7.444 (1.207)	57	18179	2.00000	1.886	80.00- 120.00	100.00
7.445	7.444 (1.207)	85	18740			67.11- 127.11	103.09
7.445	7.444 (1.207)	43	45414			214.21- 274.21	249.82
139 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
7.688	7.688 (0.893)	75	26352	2.00000	1.996	80.00- 120.00	100.00
7.688	7.688 (0.893)	77	9021			2.15- 62.15	34.23
7.688	7.688 (0.893)	39	17627			36.09- 96.09	66.89
141 1,1,2-Trichloroethane					CAS #: 79-00-5		
7.846	7.846 (0.911)	97	19996	2.00000	1.969	80.00- 120.00	100.00
7.846	7.846 (0.911)	99	12392			31.62- 91.62	61.97
7.839	7.846 (0.910)	83	17818			56.35- 116.35	89.11
142 Tetrachloroethene					CAS #: 127-18-4		
7.882	7.881 (0.915)	166	27680	2.00000	1.971	80.00- 120.00	100.00
7.874	7.881 (0.914)	129	22388			48.71- 108.71	80.88
7.882	7.881 (0.915)	131	21304			46.55- 106.55	76.97
143 2-Hexanone					CAS #: 591-78-6		
8.010	8.003 (0.930)	58	22942	2.00000	1.967	80.00- 120.00	100.00
8.003	8.003 (0.929)	43	45796			157.91- 217.91	199.62
8.010	8.003 (0.930)	100	4202			0.00- 47.86	18.32
144 1,3-Dichloropropane					CAS #: 142-28-9		
7.989	7.989 (1.296)	76	27424	2.00000	1.984	80.00- 120.00	100.00(a)
7.989	7.989 (1.296)	41	30899			82.96- 142.96	112.67
7.989	7.989 (1.296)	78	8899			2.55- 62.55	32.45

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
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146 Dibromochloromethane						CAS #: 124-48-1	
8.154	8.154 (0.947)	129	38430	2.00000	1.995	80.00- 120.00	100.00
8.154	8.154 (0.947)	127	29685			47.77- 107.77	77.24
148 1,2-Dibromoethane (EDB)						CAS #: 106-93-4	
8.268	8.268 (0.960)	107	31730	2.00000	2.012	80.00- 120.00	100.00
8.261	8.268 (0.959)	109	29448			64.60- 124.60	92.81
151 1-Bromo-2-Chloroethane						CAS #: 107-04-0	
7.115	7.115 (1.154)	63	36254	2.00000	2.070	80.00- 120.00	100.00
7.115	7.115 (1.154)	65	11738			0.95- 60.95	32.38
7.122	7.122 (1.155)	144	3735			0.00- 40.45	10.30
* 153 Chlorobenzene-d5						CAS #: 3114-55-4	
8.612	8.619 (1.000)	117	896463	25.0000		80.00- 120.00	100.00
8.612	8.619 (1.000)	82	496632			25.46- 85.46	55.40
154 Chlorobenzene						CAS #: 108-90-7	
8.641	8.641 (1.003)	112	47809	2.00000	1.951	80.00- 120.00	100.00
8.641	8.641 (1.003)	114	15417			2.13- 62.13	32.25
8.641	8.641 (1.003)	77	36657			26.35- 86.35	76.67
155 Ethyl Benzene						CAS #: 100-41-4	
8.684	8.684 (1.008)	106	24773	2.00000	2.022	80.00- 120.00	100.00
8.684	8.684 (1.008)	91	76793			282.48- 342.48	309.99
156 Nonane						CAS #: 111-84-2	
8.705	8.705 (1.011)	43	47836	2.00000	2.014	80.00- 120.00	100.00
8.705	8.705 (1.011)	57	41901			59.52- 119.52	87.59
8.705	8.705 (1.011)	85	14792			0.00- 59.76	30.92
158 m,p-Xylene						CAS #: 108-38-3	
8.784	8.784 (1.020)	106	29681	2.00000	1.947	80.00- 120.00	100.00
8.784	8.784 (1.020)	91	60240			171.36- 231.36	202.96
164 o-Xylene						CAS #: 95-47-6	
9.121	9.128 (1.059)	106	28420	2.00000	1.964	80.00- 120.00	100.00
9.121	9.128 (1.059)	91	58681			179.99- 239.99	206.48
165 Styrene						CAS #: 100-42-5	
9.149	9.149 (1.062)	104	47987	2.00000	1.914	80.00- 120.00	100.00
9.142	9.149 (1.062)	78	24297			19.09- 79.09	50.63
167 Bromoform						CAS #: 75-25-2	
9.350	9.350 (1.086)	173	35291	2.00000	1.932	80.00- 120.00	100.00
9.350	9.350 (1.086)	171	17840			21.45- 81.45	50.55

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
168 Cumene					CAS #: 98-82-8		
9.407	9.414 (1.092)	105	89737	2.00000	1.962	80.00- 120.00	100.00
9.414	9.414 (1.093)	120	24498			0.00- 56.99	27.30
9.407	9.407 (1.092)	51	11332			0.00- 41.77	12.63
169 Cyclohexanone					CAS #: 108-94-1		
9.579	9.579 (1.112)	55	31083	2.00000	2.159	80.00- 120.00	100.00(a)
9.579	9.579 (1.112)	98	11891			9.22- 69.22	38.26
9.579	9.579 (1.112)	42	20956			42.60- 102.60	67.42
$ 170 4-Bromofluorobenzene					CAS #: 460-00-4		
9.601	9.601 (1.115)	174	586034	25.0000	24.715	80.00- 120.00	100.00
9.601	9.601 (1.115)	95	730126			93.06- 153.06	124.59
9.601	9.601 (1.115)	176	549908			62.87- 122.87	93.84
175 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
9.737	9.737 (1.131)	83	45479	2.00000	2.005	80.00- 120.00	100.00
9.737	9.737 (1.131)	85	28003			34.35- 94.35	61.57
177 Bromobenzene					CAS #: 108-86-1		
9.737	9.729 (1.131)	156	28306	2.00000	1.990	80.00- 120.00	100.00(a)
9.737	9.737 (1.131)	158	27654			67.29- 127.29	97.70
9.730	9.729 (1.130)	77	45934			132.41- 192.41	162.28
178 Propylbenzene					CAS #: 103-65-1		
9.758	9.758 (1.133)	91	107489	2.00000	2.014	80.00- 120.00	100.00
9.758	9.758 (1.133)	120	25682			0.00- 53.77	23.89
9.758	9.758 (1.133)	105	4623			0.00- 33.81	4.30
179 1,2,3-Trichloropropane					CAS #: 96-18-4		
9.787	9.787 (1.136)	110	13498	2.00000	1.976	80.00- 120.00	100.00
9.787	9.787 (1.136)	75	40201			285.00- 345.00	297.83
9.787	9.787 (1.136)	61	11873			54.06- 114.06	87.96
181 trans-1,4-Dichloro-2-butene					CAS #: 110-57-6		
9.787	9.787 (1.136)	53	11078	2.00000	2.049	80.00- 120.00	100.00
9.787	9.787 (1.136)	89	5431			21.19- 81.19	49.03
9.787	9.787 (1.136)	75	40201			372.45- 432.45	362.89
182 Decane					CAS #: 124-18-5		
9.808	9.808 (1.139)	57	56155	2.00000	2.034	80.00- 120.00	100.00
9.808	9.808 (1.139)	71	19932			4.13- 64.13	35.49
9.816	9.815 (1.140)	142	2636			0.00- 34.73	4.69
183 4-Ethyltoluene					CAS #: 622-96-8		
9.851	9.851 (1.144)	120	27536	2.00000	1.990	80.00- 120.00	100.00

				AMOUNTS				
					CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE		(PPBV)	(PPBV)	TARGET RANGE	RATIO
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183 4-Ethyltoluene (continued)								
9.851	9.851 (1.144)	105	89192				296.79- 356.79	323.91
184 2-Chlorotoluene						CAS #: 95-49-8		
9.873	9.873 (1.146)	126	22038	2.00000		1.960	80.00- 120.00	100.00
9.873	9.873 (1.146)	91	82197				336.29- 396.29	372.98
9.866	9.873 (1.146)	65	13007				38.83- 98.83	59.02
185 1,3,5-Trimethylbenzene						CAS #: 108-67-8		
9.902	9.901 (1.150)	120	37752	2.00000		1.942	80.00- 120.00	100.00
9.902	9.901 (1.150)	105	80271				176.40- 236.40	212.63
188 alpha Methyl Styrene						CAS #: 98-83-9		
10.102	10.102 (1.173)	118	39056	2.00000		1.962	80.00- 120.00	100.00
10.102	10.102 (1.173)	103	22102				26.64- 86.64	56.59
189 tert-Butylbenzene						CAS #: 98-06-6		
10.174	10.174 (1.181)	119	72972	2.00000		2.041	80.00- 120.00	100.00
10.167	10.174 (1.180)	134	17377				0.00- 54.82	23.81
10.174	10.174 (1.181)	91	48613				36.92- 96.92	66.62
190 1,2,4-Trimethylbenzene						CAS #: 95-63-6		
10.224	10.224 (1.187)	105	74003	2.00000		1.931	80.00- 120.00	100.00
10.224	10.224 (1.187)	120	34304				16.58- 76.58	46.35
192 sec-Butylbenzene						CAS #: 135-98-8		
10.353	10.360 (1.202)	134	22626	2.00000		1.959	80.00- 120.00	100.00
10.353	10.360 (1.202)	105	109866				451.53- 511.53	485.57
10.353	10.353 (1.202)	91	18185				46.48- 106.48	80.37
194 p-Cymene						CAS #: 99-87-6		
10.467	10.467 (1.215)	119	94336	2.00000		1.950	80.00- 120.00	100.00
10.467	10.467 (1.215)	134	25449				0.00- 56.79	26.98
10.467	10.467 (1.215)	91	23235				0.00- 54.04	24.63
195 1,3-Dichlorobenzene						CAS #: 541-73-1		
10.518	10.517 (1.221)	146	51279	2.00000		1.970	80.00- 120.00	100.00
10.518	10.517 (1.221)	148	32439				33.53- 93.53	63.26
10.518	10.517 (1.221)	111	20660				11.05- 71.05	40.29
196 1,4-Dichlorobenzene						CAS #: 106-46-7		
10.596	10.596 (1.230)	146	54206	2.00000		2.021	80.00- 120.00	100.00
10.596	10.596 (1.230)	148	34266				33.47- 93.47	63.21
10.596	10.596 (1.230)	111	21091				9.65- 69.65	38.91
199 alpha-Chlorotoluene						CAS #: 100-44-7		
10.711	10.711 (1.244)	91	71847	2.00000		1.948	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
199 alpha-Chlorotoluene (continued)							
10.711	10.711 (1.244)	126	15914			0.00- 52.04	22.15
201 Undecane					CAS #: 1120-21-4		
10.804	10.804 (1.254)	57	66498	2.00000	2.044	80.00- 120.00	100.00
10.804	10.804 (1.254)	43	57381			55.86- 115.86	86.29
202 Butylbenzene					CAS #: 104-51-8		
10.818	10.818 (1.256)	134	25185	2.00000	2.008	80.00- 120.00	100.00
10.818	10.818 (1.256)	91	90951			331.99- 391.99	361.13
10.818	10.818 (1.256)	92	48740			161.01- 221.01	193.53
204 1,2-Dichlorobenzene					CAS #: 95-50-1		
10.926	10.926 (1.269)	146	50354	2.00000	2.001	80.00- 120.00	100.00
10.919	10.926 (1.268)	148	31905			33.23- 93.23	63.36
10.919	10.918 (1.268)	111	21630			12.36- 72.36	42.96
206 1,2-Dibromo-3-chloropropane					CAS #: 96-12-8		
11.606	11.606 (1.348)	157	29511	2.00000	2.023	80.00- 120.00	100.00
11.606	11.599 (1.348)	75	26419			58.96- 118.96	89.52
11.606	11.606 (1.348)	155	23036			47.82- 107.82	78.06
207 Dodecane					CAS #: 112-40-3		
11.714	11.714 (1.360)	57	68826	2.47200	2.502	80.00- 120.00	100.00
11.714	11.714 (1.360)	43	55006			50.85- 110.85	79.92
213 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
12.301	12.301 (1.428)	180	46259	2.51800	2.589	80.00- 120.00	100.00
12.301	12.301 (1.428)	182	44390			65.40- 125.40	95.96
215 Hexachlorobutadiene					CAS #: 87-68-3		
12.380	12.387 (1.437)	225	34636	2.57400	2.566	80.00- 120.00	100.00
12.387	12.387 (1.438)	223	22076			33.70- 93.70	63.74
216 Naphthalene					CAS #: 91-20-3		
12.559	12.552 (1.458)	128	16936	0.25400	0.3104	80.00- 120.00	100.00(a)
12.559	12.552 (1.458)	127	2207			0.00- 43.10	13.03
222 1,2,3-Trichlorobenzene					CAS #: 87-61-6		
12.803	12.802 (1.487)	180	45565	2.66200	2.786	80.00- 120.00	100.00
12.803	12.802 (1.487)	182	41761			65.67- 125.67	91.65
12.795	12.802 (1.486)	145	16507			6.02- 66.02	36.23

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd3.i
Lab File ID: 3062218.d
Lab Smp Id: ICAL Level 6
Analysis Type: VOA
Quant Type: ISTD
Operator: LD
Method File: /chem/msd3.i/22JUN21.b/321q0622a.m
Misc Info: 2.0ppbv (5.0ppbv)

Calibration Date: 22-JUN-2021
Calibration Time: 23:12
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	243405	146043	340767	258917	6.37
108 1,4-Difluorobenze	874076	524446	1223706	946034	8.23
153 Chlorobenzene-d5	831223	498734	1163712	896463	7.85

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.28	4.95	5.61	5.28	0.00
108 1,4-Difluorobenze	6.18	5.85	6.51	6.17	-0.22
153 Chlorobenzene-d5	8.62	8.29	8.95	8.61	-0.08

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msd3.i/22JUN21.b/3062218.d

Date : 22-JUN-2021 21:49

Client ID:

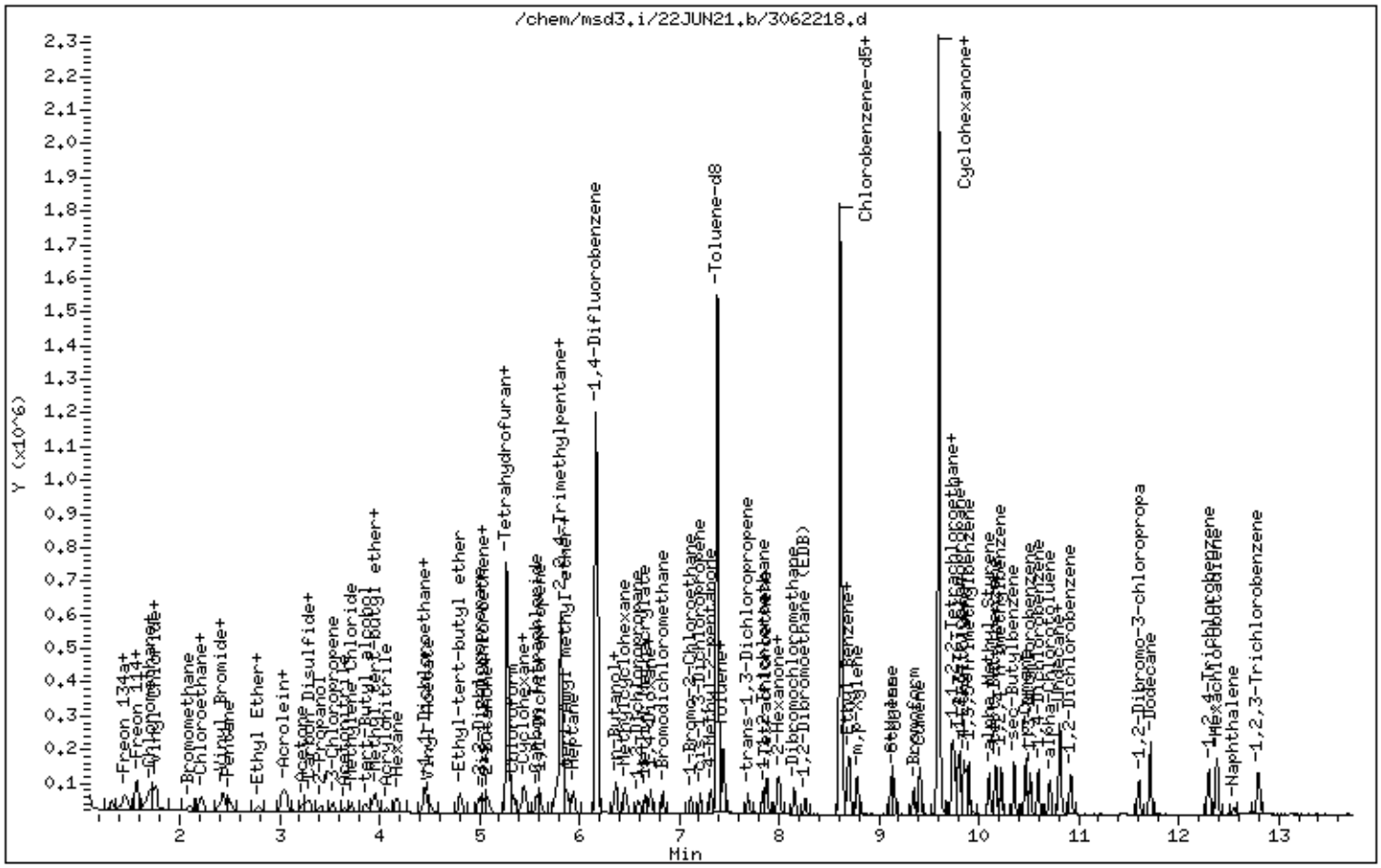
Instrument: msd3.i

Sample Info: 80mL 3018-2116

Operator: LD

Column phase: RTX-624

Column diameter: 0.25



US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msd3.i/22JUN21.b/3062208.d
Lab Smp Id: ICAL Level 7
Inj Date : 22-JUN-2021 17:13
Operator : LD Inst ID: msd3.i
Smp Info : 200mL 3018-2078
Misc Info : 5.0ppbv (5.0ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msd3.i/22JUN21.b/321q0622a.m
Meth Date : 23-Jun-2021 12:22 lk8g Quant Type: ISTD
Cal Date : 22-JUN-2021 22:18 Cal File: 3062219.d
Als bottle: 4 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT20spICAL.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 90 Bromochloromethane					CAS #: 74-97-5		
5.284	5.284 (1.000)	130	293494	25.0000		80.00- 120.00	100.00
5.284	5.284 (1.000)	128	228507			48.46- 108.46	77.86
5.270	5.270 (1.000)	49	438123			120.39- 180.39	149.28
* 108 1,4-Difluorobenzene					CAS #: 540-36-3		
6.166	6.180 (1.000)	114	1058029	25.0000		80.00- 120.00	100.00
6.166	6.180 (1.000)	88	166272			0.00- 45.52	15.72
* 153 Chlorobenzene-d5					CAS #: 3114-55-4		
8.612	8.619 (1.000)	117	1004400	25.0000		80.00- 120.00	100.00
8.612	8.619 (1.000)	82	564944			25.46- 85.46	56.25
3 Freon 143a					CAS #: 420-46-2		
1.353	1.353 (0.256)	65	25983	5.00000	5.292	80.00- 120.00	100.00
1.353	1.353 (0.256)	69	63841			217.09- 277.09	245.70
1.353	1.353 (0.256)	64	6250			0.00- 55.87	24.05
6 Propane					CAS #: 74-98-6		
1.437	1.422 (0.272)	43	13302	5.00000	4.973	80.00- 120.00	100.00

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
6 Propane (continued)							
1.437	1.422 (0.272)	39	11936			41.62- 101.62	89.73
1.437	1.422 (0.272)	41	11547			22.97- 82.97	86.81
13 Freon 142b					CAS #: 75-68-3		
1.605	1.604 (0.304)	65	76015	5.00000	4.869	80.00- 120.00	100.00
1.605	1.604 (0.304)	45	23649			0.00- 58.17	31.11
36 1-Pentene					CAS #: 109-67-1		
2.444	2.444 (0.463)	55	48431	5.00000	4.885	80.00- 120.00	100.00(a)
2.444	2.444 (0.463)	42	69052			99.17- 159.17	142.58
40 Freon 123a					CAS #: 354-23-4		
2.878	2.878 (0.545)	117	56054	5.00000	4.855	80.00- 120.00	100.00(a)
2.878	2.878 (0.545)	67	73224			103.13- 163.13	130.63
41 Freon 123					CAS #: 306-83-2		
2.976	2.976 (0.563)	83	83378	5.00000	4.924	80.00- 120.00	100.00
2.976	2.976 (0.563)	133	19265			0.00- 51.81	23.11
2.976	2.976 (0.563)	85	60487			37.13- 97.13	72.55
55 Cyclopentene					CAS #: 142-29-0		
3.549	3.549 (0.672)	67	86815	5.00000	4.817	80.00- 120.00	100.00
3.549	3.549 (0.672)	68	34754			7.90- 67.90	40.03
3.549	3.549 (0.672)	53	22334			0.00- 54.87	25.73
56 Methyl Acetate					CAS #: 79-20-9		
3.591	3.577 (0.680)	43	97338	5.00000	5.240	80.00- 120.00	100.00
3.591	3.577 (0.680)	74	16823			0.00- 47.15	17.28
74 Chloroprene					CAS #: 126-99-8		
4.501	4.515 (0.852)	53	77411	5.00000	4.921	80.00- 120.00	100.00
4.501	4.515 (0.852)	88	32483			12.33- 72.33	41.96
4.501	4.515 (0.852)	50	21250			0.00- 57.62	27.45
75 1-Propanol					CAS #: 71-23-8		
4.627	4.613 (0.876)	59	12617	5.00000	5.188	80.00- 120.00	100.00
4.627	4.613 (0.876)	42	10989			53.89- 113.89	87.10
4.627	4.613 (0.876)	41	7991			24.09- 84.09	63.34
88 Methyl Acrylate					CAS #: 96-33-3		
5.130	5.130 (0.971)	55	96706	5.00000	5.116	80.00- 120.00	100.00
5.130	5.130 (0.971)	85	14547			0.00- 43.24	15.04
5.130	5.130 (0.971)	58	8124			0.00- 38.83	8.40
103 Isobutanol					CAS #: 78-83-1		
5.788	5.774 (1.095)	39	22174	5.00000	6.383	80.00- 120.00	100.00

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
103 Isobutanol (continued)							
5.788	5.774 (1.095)	43	58502			327.69- 387.69	263.83
5.788	5.774 (1.095)	41	49233			237.56- 297.56	222.03
113 Ethyl acrylate					CAS #: 140-88-5		
6.460	6.474 (0.750)	99	9219	5.00000	5.744	80.00- 120.00	100.00
6.460	6.460 (0.750)	45	13614			124.67- 184.67	147.67
6.460	6.460 (0.750)	55	147002			1601.30-1661.30	1594.55
115 2-Pentanone					CAS #: 107-87-9		
6.558	6.557 (0.761)	43	208253	5.00000	5.547	80.00- 120.00	100.00
6.558	6.557 (0.761)	58	18363			0.00- 37.25	8.82
6.558	6.557 (0.761)	86	31845			0.00- 45.08	15.29
145 Butyl Acetate					CAS #: 123-86-4		
8.068	8.068 (1.308)	56	76654	5.00000	5.496	80.00- 120.00	100.00
8.068	8.068 (1.308)	73	28367			5.16- 65.16	37.01
8.068	8.068 (1.308)	43	192544			214.00- 274.00	251.19
157 1,1,1,2-Tetrachloroethane					CAS #: 630-20-6		
8.712	8.712 (1.012)	131	69799	5.00000	4.620	80.00- 120.00	100.00
8.705	8.712 (1.011)	117	53334			38.22- 98.22	76.41
8.705	8.712 (1.011)	95	27234			7.54- 67.54	39.02
166 2-Heptanone					CAS #: 110-43-0		
9.221	9.221 (1.745)	58	119072	5.00000	5.527	80.00- 120.00	100.00
9.221	9.221 (1.745)	43	194999			133.36- 193.36	163.77
172 D-Limonene					CAS #: 5989-27-5		
10.417	10.417 (1.210)	68	84575	5.00000	4.635	80.00- 120.00	100.00
10.417	10.424 (1.210)	93	60187			42.08- 102.08	71.16
186 4-Chlorotoluene					CAS #: 106-43-4		
9.966	9.973 (1.157)	126	66952	5.00000	5.091	80.00- 120.00	100.00
9.966	9.966 (1.157)	91	215822			305.94- 365.94	322.35
9.966	9.966 (1.157)	63	29938			15.44- 75.44	44.72
197 1,2,3-Trimethylbenzene					CAS #: 526-73-8		
10.589	10.596 (1.230)	120	89366	5.00000	4.957	80.00- 120.00	100.00(a)
10.589	10.596 (1.230)	105	206875			206.43- 266.43	231.49
10.589	10.596 (1.230)	77	25868			0.00- 58.29	28.95
205 Hexachloroethane					CAS #: 67-72-1		
11.098	11.098 (1.289)	201	45814	5.00000	4.163	80.00- 120.00	100.00
11.098	11.098 (1.289)	117	64441			109.77- 169.77	140.66

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
208 1,3,5-Trichlorobenzene					CAS #: 108-70-3		
11.721	11.728 (1.361)	180	130245	5.00000	5.428	80.00- 120.00	100.00
11.721	11.728 (1.361)	182	123901			65.79- 125.79	95.13
210 alpha-Pinene					CAS #: 80-56-8		
9.371	9.371 (1.088)	93	153783	5.00000	4.952	80.00- 120.00	100.00
9.371	9.371 (1.088)	77	45062			0.13- 60.13	29.30
214 beta-Pinene					CAS #: 127-91-3		
9.944	9.944 (1.155)	93	115699	5.00000	4.744	80.00- 120.00	100.00
9.966	9.966 (1.157)	91	215822			145.95- 205.95	186.54

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd3.i
Lab File ID: 3062208.d
Lab Smp Id: ICAL Level 7
Analysis Type: VOA
Quant Type: ISTD
Operator: LD
Method File: /chem/msd3.i/22JUN21.b/321q0622a.m
Misc Info: 5.0ppbv (5.0ppbv)

Calibration Date: 22-JUN-2021
Calibration Time: 23:12
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	243405	146043	340767	293494	20.58
108 1,4-Difluorobenze	874076	524446	1223706	1058029	21.05
153 Chlorobenzene-d5	831223	498734	1163712	1004400	20.83

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.28	4.95	5.61	5.28	0.00
108 1,4-Difluorobenze	6.18	5.85	6.51	6.17	-0.22
153 Chlorobenzene-d5	8.62	8.29	8.95	8.61	-0.08

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msd3.i/22JUN21.b/3062208.d

Date : 22-JUN-2021 17:13

Client ID:

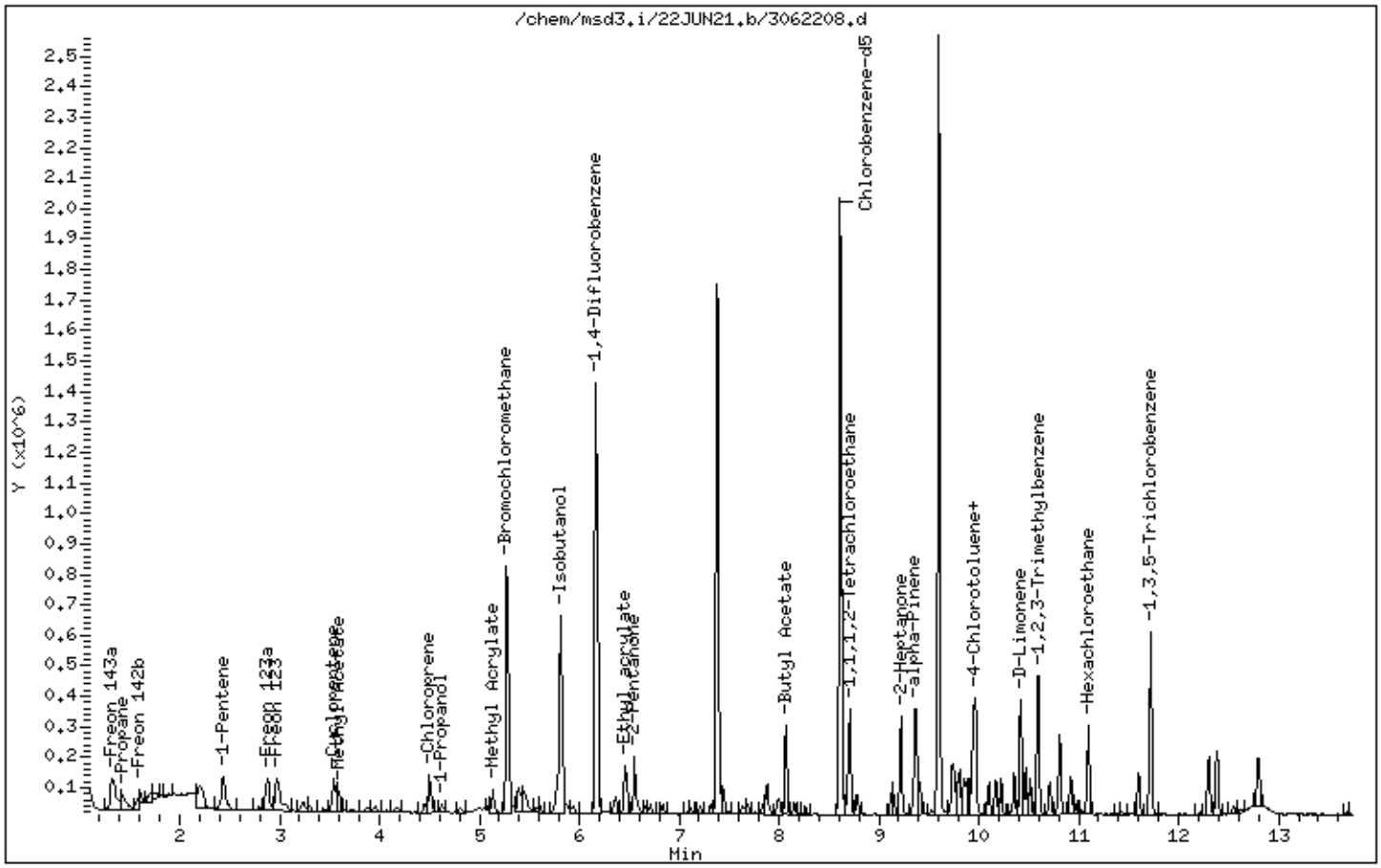
Instrument: msd3.i

Sample Info: 200mL 3018-2078

Operator: LD

Column phase: RTX-624

Column diameter: 0.25



US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msd3.i/22JUN21.b/3062219.d
Lab Smp Id: ICAL Level 7
Inj Date : 22-JUN-2021 22:18
Operator : LD Inst ID: msd3.i
Smp Info : 200mL 3018-2116
Misc Info : 5.0ppbv (5.0ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msd3.i/22JUN21.b/321q0622a.m
Meth Date : 23-Jun-2021 12:22 lk8g Quant Type: ISTD
Cal Date : 22-JUN-2021 22:18 Cal File: 3062219.d
Als bottle: 1 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT20ICAL.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
4 Freon 134a					CAS #: 811-97-2		
1.409	1.395 (0.267)	83	30870	5.00000	5.043	80.00- 120.00	100.00
1.409	1.395 (0.267)	69	27437			51.82- 111.82	88.88
1.493	1.479 (0.282)	51	115062			194.91- 254.91	372.73
5 Propylene					CAS #: 115-07-1		
1.437	1.423 (0.272)	41	30120	5.00000	4.847	80.00- 120.00	100.00
1.437	1.423 (0.272)	42	20252			35.61- 95.61	67.24
1.437	1.423 (0.272)	39	23134			42.66- 102.66	76.81
7 1,1-Difluoroethane					CAS #: 75-37-6		
1.451	1.437 (0.275)	65	20451	5.00000	5.049	80.00- 120.00	100.00
1.493	1.479 (0.282)	51	115062			321.86- 381.86	562.62
1.465	1.437 (0.277)	47	15872			45.34- 105.34	77.61
8 Freon 12					CAS #: 75-71-8		
1.465	1.465 (0.277)	85	87130	5.00000	4.862	80.00- 120.00	100.00
1.465	1.465 (0.277)	87	28738			2.63- 62.63	32.98
9 Chlorodifluoromethane					CAS #: 75-45-6		
1.493	1.479 (0.282)	67	9643	5.00000	4.896	80.00- 120.00	100.00

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
9 Chlorodifluoromethane (continued)							
1.493	1.479 (0.282)	51	115062			719.76- 779.76	1193.22
10 Freon 114					CAS #: 76-14-2		
1.576	1.562 (0.298)	135	66614	5.00000	5.016	80.00- 120.00	100.00
1.576	1.562 (0.298)	137	21590			2.12- 62.12	32.41
12 Isobutane					CAS #: 75-28-5		
1.576	1.576 (0.298)	43	70335	5.00000	5.036	80.00- 120.00	100.00
1.576	1.576 (0.298)	42	23270			2.44- 62.44	33.08
1.576	1.576 (0.298)	58	3709			0.00- 33.26	5.27
15 Chloromethane					CAS #: 74-87-3		
1.646	1.646 (0.312)	50	37423	5.00000	5.024	80.00- 120.00	100.00
1.646	1.646 (0.312)	52	14009			2.41- 62.41	37.43
18 Butane					CAS #: 106-97-8		
1.716	1.702 (0.325)	58	12018	5.00000	6.832	80.00- 120.00	100.00
1.716	1.702 (0.325)	43	73577			727.41- 787.41	612.22
19 Vinyl Chloride					CAS #: 75-01-4		
1.744	1.744 (0.330)	62	36880	5.00000	4.627	80.00- 120.00	100.00
1.744	1.744 (0.330)	64	13097			1.28- 61.28	35.51
20 1,3-Butadiene					CAS #: 106-99-0		
1.772	1.758 (0.335)	54	35506	5.00000	4.860	80.00- 120.00	100.00
1.772	1.758 (0.335)	39	35507			69.23- 129.23	100.00
24 Bromomethane					CAS #: 74-83-9		
2.108	2.094 (0.399)	94	38109	5.00000	6.045	80.00- 120.00	100.00
2.108	2.094 (0.399)	96	35133			62.78- 122.78	92.19
30 Chloroethane					CAS #: 75-00-3		
2.206	2.206 (0.417)	64	19206	5.00000	5.133	80.00- 120.00	100.00
2.206	2.206 (0.417)	66	6521			1.44- 61.44	33.95
2.206	2.206 (0.417)	49	6939			4.12- 64.12	36.13
31 Isopentane					CAS #: 78-78-4		
2.220	2.220 (0.420)	43	48636	5.00000	5.083	80.00- 120.00	100.00
2.220	2.220 (0.420)	57	33342			38.82- 98.82	68.55
32 Vinyl Bromide					CAS #: 593-60-2		
2.402	2.388 (0.455)	106	34690	5.00000	5.061	80.00- 120.00	100.00
2.402	2.388 (0.455)	108	32419			63.14- 123.14	93.45
33 Freon 11					CAS #: 75-69-4		
2.444	2.430 (0.462)	101	96206	5.00000	5.074	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
33 Freon 11 (continued)							
2.444	2.430 (0.462)	103	62473			35.12- 95.12	64.94
34 Dichlorofluoromethane					CAS #: 75-43-4		
2.458	2.444 (0.465)	67	74608	5.00000	4.922	80.00- 120.00	100.00
2.458	2.444 (0.465)	69	23139			0.74- 60.74	31.01
35 Pentane					CAS #: 109-66-0		
2.500	2.500 (0.473)	43	76248	5.00000	5.002	80.00- 120.00	100.00
2.500	2.500 (0.473)	57	12267			0.00- 45.97	16.09
2.500	2.500 (0.473)	72	6676			0.00- 38.10	8.76
38 Ethyl Ether					CAS #: 60-29-7		
2.794	2.780 (0.529)	74	17084	5.00000	4.998	80.00- 120.00	100.00
2.794	2.780 (0.529)	59	30253			147.68- 207.68	177.08
2.794	2.780 (0.529)	45	39009			206.40- 266.40	228.34
39 Ethanol					CAS #: 64-17-5		
2.780	2.766 (0.526)	46	8533	5.00000	5.563	80.00- 120.00	100.00
2.794	2.780 (0.529)	45	39144			523.01- 583.01	458.74
42 Acrolein					CAS #: 107-02-8		
3.046	3.032 (0.576)	55	12195	5.00000	4.791	80.00- 120.00	100.00
3.046	3.032 (0.576)	56	17604			110.33- 170.33	144.35
43 Freon 113					CAS #: 76-13-1		
3.046	3.032 (0.576)	151	62504	5.00000	4.822	80.00- 120.00	100.00
3.046	3.032 (0.576)	153	41155			33.72- 93.72	65.84
3.032	3.032 (0.574)	101	77780			89.67- 149.67	124.44
44 1,1-Dichloroethene					CAS #: 75-35-4		
3.074	3.074 (0.582)	96	36915	5.00000	4.728	80.00- 120.00	100.00
3.074	3.074 (0.582)	98	23464			33.39- 93.39	63.56
3.074	3.074 (0.582)	61	69877			163.82- 223.82	189.29
47 Acetone					CAS #: 67-64-1		
3.228	3.213 (0.611)	58	22858	5.00000	5.299	80.00- 120.00	100.00
3.228	3.213 (0.611)	43	68759			299.66- 359.66	300.81
48 Carbon Disulfide					CAS #: 75-15-0		
3.311	3.297 (0.627)	76	99748	5.00000	5.135	80.00- 120.00	100.00
49 Iodomethane					CAS #: 74-88-4		
3.283	3.269 (0.621)	142	65902	5.00000	3.923	80.00- 120.00	100.00
3.269	3.269 (0.619)	127	30617			14.58- 74.58	46.46

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
52 2-Propanol					CAS #: 67-63-0		
3.409	3.395 (0.645)	45	78652	5.00000	5.070	80.00- 120.00	100.00
3.409	3.395 (0.645)	43	15386			0.00- 48.61	19.56
54 3-Chloropropene					CAS #: 107-05-1		
3.549	3.535 (0.672)	76	16573	5.00000	4.955	80.00- 120.00	100.00
3.535	3.535 (0.669)	41	56964			338.06- 398.06	343.72
57 Acetonitrile					CAS #: 75-05-8		
3.647	3.633 (0.690)	41	34434	5.00000	5.069	80.00- 120.00	100.00
3.647	3.633 (0.690)	40	17283			21.81- 81.81	50.19
3.647	3.633 (0.690)	38	4545			0.00- 41.86	13.20
59 Methylene Chloride					CAS #: 75-09-2		
3.731	3.717 (0.706)	49	53373	5.00000	5.170	80.00- 120.00	100.00
3.731	3.717 (0.706)	84	31988			30.77- 90.77	59.93
3.731	3.717 (0.706)	51	16157			1.39- 61.39	30.27
62 tert-Butyl alcohol					CAS #: 75-65-0		
3.857	3.857 (0.730)	59	96951	5.00000	4.979	80.00- 120.00	100.00
3.857	3.857 (0.730)	41	19154			0.00- 51.05	19.76
3.857	3.857 (0.730)	57	10645			0.00- 41.68	10.98
63 Methyl tert-butyl ether					CAS #: 1634-04-4		
3.941	3.941 (0.746)	73	105485	5.00000	5.019	80.00- 120.00	100.00
3.941	3.941 (0.746)	57	29722			0.00- 58.86	28.18
3.941	3.941 (0.746)	41	29577			0.00- 57.27	28.04
64 trans-1,2-Dichloroethene					CAS #: 156-60-5		
3.969	3.969 (0.751)	98	24541	5.00000	4.671	80.00- 120.00	100.00
3.969	3.969 (0.751)	61	64474			244.59- 304.59	262.72
3.969	3.969 (0.751)	96	37973			129.84- 189.84	154.73
66 Acrylonitrile					CAS #: 107-13-1		
4.081	4.067 (0.772)	52	27763	5.00000	4.403	80.00- 120.00	100.00
4.081	4.067 (0.772)	53	31591			88.50- 148.50	113.79
67 Hexane					CAS #: 110-54-3		
4.179	4.179 (0.791)	57	69178	5.00000	4.856	80.00- 120.00	100.00
4.179	4.179 (0.791)	43	44269			32.99- 92.99	63.99
4.179	4.179 (0.791)	86	9063			0.00- 42.56	13.10
71 1,1-Dichloroethane					CAS #: 75-34-3		
4.459	4.459 (0.844)	63	72121	5.00000	4.922	80.00- 120.00	100.00
4.459	4.459 (0.844)	65	22325			0.76- 60.76	30.95

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
72 Isopropyl ether						CAS #: 108-20-3	
4.445	4.445 (0.841)	45	150519	5.00000	5.006	80.00- 120.00	100.00
4.445	4.445 (0.841)	87	33160			0.00- 51.37	22.03
4.445	4.445 (0.841)	59	17494			0.00- 41.09	11.62
73 Vinyl Acetate						CAS #: 108-05-4	
4.501	4.501 (0.852)	86	8959	5.00000	4.974	80.00- 120.00	100.00
4.501	4.501 (0.852)	43	127594			1391.63-1451.63	1424.20
79 Ethyl-tert-butyl ether						CAS #: 637-92-3	
4.809	4.809 (0.910)	59	146272	5.00000	5.039	80.00- 120.00	100.00
4.809	4.809 (0.910)	87	48988			3.22- 63.22	33.49
4.809	4.809 (0.910)	41	28007			0.00- 48.12	19.15
84 2,2-Dichloropropane						CAS #: 594-20-7	
5.004	5.004 (0.947)	77	68953	5.00000	5.052	80.00- 120.00	100.00
5.004	5.004 (0.947)	79	22612			2.00- 62.00	32.79
5.004	5.004 (0.947)	97	17231			0.00- 53.36	24.99
85 cis-1,2-Dichloroethene						CAS #: 156-59-2	
5.046	5.046 (0.955)	98	25031	5.00000	4.806	80.00- 120.00	100.00
5.046	5.046 (0.955)	96	37341			127.22- 187.22	149.18
5.046	5.046 (0.955)	61	61406			283.85- 343.85	245.32
86 2-Butanone						CAS #: 78-93-3	
5.074	5.074 (0.960)	72	19190	5.00000	5.275	80.00- 120.00	100.00
5.088	5.074 (0.963)	43	194878			1055.75-1115.75	1015.52
5.074	5.074 (0.960)	57	7584			10.59- 70.59	39.52
87 Ethyl Acetate						CAS #: 141-78-6	
5.088	5.088 (0.963)	45	15360	5.00000	5.121	80.00- 120.00	100.00
5.046	5.046 (0.955)	61	61406			450.31- 510.31	399.78
5.088	5.088 (0.963)	70	11074			30.42- 90.42	72.10
89 Tetrahydrofuran						CAS #: 109-99-9	
5.284	5.270 (1.000)	42	51780	5.00000	5.047	80.00- 120.00	100.00
5.284	5.270 (1.000)	71	17506			2.92- 62.92	33.81
5.284	5.270 (1.000)	72	17706			3.54- 63.54	34.19
* 90 Bromochloromethane						CAS #: 74-97-5	
5.284	5.284 (1.000)	130	257265	25.0000		80.00- 120.00	100.00
5.284	5.284 (1.000)	128	198868			48.46- 108.46	77.30
5.284	5.270 (1.000)	49	382161			120.39- 180.39	148.55
92 Chloroform						CAS #: 67-66-3	
5.340	5.340 (1.011)	83	76910	5.00000	4.768	80.00- 120.00	100.00

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
92 Chloroform (continued)							
5.340	5.340 (1.011)	85	51690			34.71- 94.71	67.21
94 Cyclohexane					CAS #: 110-82-7		
5.438	5.438 (1.029)	84	47869	5.00000	4.695	80.00- 120.00	100.00
5.438	5.438 (1.029)	56	71544			120.40- 180.40	149.46
5.438	5.438 (1.029)	41	39336			54.20- 114.20	82.17
96 1,1,1-Trichloroethane					CAS #: 71-55-6		
5.466	5.466 (1.034)	97	86059	5.00000	4.747	80.00- 120.00	100.00
5.466	5.466 (1.034)	99	53345			33.76- 93.76	61.99
97 Carbon Tetrachloride					CAS #: 56-23-5		
5.578	5.578 (1.056)	119	81713	5.00000	4.893	80.00- 120.00	100.00
5.578	5.578 (1.056)	117	85199			73.68- 133.68	104.27
99 1,1-Dichloropropene					CAS #: 563-58-6		
5.606	5.606 (0.907)	110	21667	5.00000	5.139	80.00- 120.00	100.00
5.606	5.606 (0.907)	75	54993			231.09- 291.09	253.81
101 2,2,4-Trimethylpentane					CAS #: 540-84-1		
5.774	5.774 (1.093)	57	216768	5.00000	4.866	80.00- 120.00	100.00
5.774	5.774 (1.093)	56	66699			1.12- 61.12	30.77
5.774	5.774 (1.093)	41	61380			0.00- 57.49	28.32
102 Benzene					CAS #: 71-43-2		
5.788	5.788 (0.937)	78	103158	5.00000	4.879	80.00- 120.00	100.00
5.788	5.788 (0.937)	77	24658			0.00- 53.80	23.90
$ 104 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
5.816	5.816 (1.101)	65	357108	25.0000	25.224	80.00- 120.00	100.00
5.816	5.816 (1.101)	67	173770			21.66- 81.66	48.66
105 tert-Amyl methyl ether					CAS #: 994-05-8		
5.858	5.858 (0.948)	87	28935	5.00000	5.133	80.00- 120.00	100.00
5.858	5.858 (0.948)	73	109587			365.20- 425.20	378.74
5.858	5.858 (0.948)	55	33901			91.31- 151.31	117.16
106 1,2-Dichloroethane					CAS #: 107-06-2		
5.886	5.886 (0.952)	62	61110	5.00000	5.021	80.00- 120.00	100.00
5.886	5.886 (0.952)	64	19136			1.20- 61.20	31.31
107 Heptane					CAS #: 142-82-5		
5.942	5.942 (0.962)	71	38185	5.00000	4.586	80.00- 120.00	100.00
5.942	5.942 (0.962)	43	80884			179.02- 239.02	211.82
5.942	5.942 (0.962)	57	43453			84.85- 144.85	113.80

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
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* 108 1,4-Difluorobenzene						CAS #: 540-36-3	
6.180	6.180 (1.000)	114	926448	25.0000		80.00- 120.00	100.00
6.166	6.180 (1.000)	88	143997			0.00- 45.52	15.54
110 n-Butanol						CAS #: 71-36-3	
6.348	6.348 (1.027)	56	35336	5.00000	5.214	80.00- 120.00	100.00
6.348	6.348 (1.027)	41	25658			40.21- 100.21	72.61
6.348	6.348 (1.027)	43	19921			25.00- 85.00	56.38
111 Trichloroethene						CAS #: 79-01-6	
6.362	6.362 (1.029)	95	51343	5.00000	4.841	80.00- 120.00	100.00
6.362	6.362 (1.029)	130	53310			74.96- 134.96	103.83
6.362	6.362 (1.029)	97	34367			34.80- 94.80	66.94
114 1,2-Dichloropropane						CAS #: 78-87-5	
6.586	6.586 (1.066)	63	22303	5.00000	4.551	80.00- 120.00	100.00
6.586	6.586 (1.066)	62	18119			52.03- 112.03	81.24
6.586	6.586 (1.066)	41	18449			79.97- 139.97	82.72
116 Methyl Methacrylate						CAS #: 80-62-6	
6.664	6.664 (0.773)	69	40620	5.00000	4.788	80.00- 120.00	100.00
6.664	6.664 (0.773)	41	63946			134.02- 194.02	157.42
6.664	6.664 (0.773)	100	16200			9.54- 69.54	39.88
117 1,4-Dioxane						CAS #: 123-91-1	
6.707	6.699 (1.085)	88	27610	5.00000	5.155	80.00- 120.00	100.00
6.699	6.699 (1.084)	58	24280			55.80- 115.80	87.94
6.699	6.699 (1.084)	57	8469			8.68- 68.68	30.67
118 Dibromomethane						CAS #: 74-95-3	
6.721	6.721 (0.780)	174	46476	5.00000	4.919	80.00- 120.00	100.00
6.714	6.721 (0.779)	93	46503			67.27- 127.27	100.06
6.714	6.721 (0.779)	95	38973			50.92- 110.92	83.86
122 Bromodichloromethane						CAS #: 75-27-4	
6.836	6.836 (1.106)	83	84118	5.00000	4.734	80.00- 120.00	100.00
6.836	6.836 (1.106)	85	54033			34.31- 94.31	64.23
126 cis-1,3-Dichloropropene						CAS #: 10061-01-5	
7.208	7.208 (1.166)	75	65073	5.00000	4.927	80.00- 120.00	100.00
7.208	7.208 (1.166)	77	20430			1.42- 61.42	31.40
7.215	7.208 (1.168)	39	45406			38.56- 98.56	69.78
127 Methylcyclohexane						CAS #: 108-87-2	
6.460	6.460 (1.045)	83	66098	5.00000	4.660	80.00- 120.00	100.00
6.460	6.460 (1.045)	98	31051			15.60- 75.60	46.98

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
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127 Methylcyclohexane (continued)							
6.460	6.460 (1.045)	55	67155			78.53- 138.53	101.60
131 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.316	7.316 (1.184)	58	41661	5.00000	4.639	80.00- 120.00	100.00
7.316	7.316 (1.184)	43	110219			231.30- 291.30	264.56
7.316	7.316 (1.184)	85	17067			8.94- 68.94	40.97
$ 134 Toluene-d8					CAS #: 2037-26-5		
7.387	7.387 (1.195)	98	956581	25.0000	25.068	80.00- 120.00	100.00
7.387	7.387 (1.195)	70	107663			0.00- 41.47	11.25
7.387	7.387 (1.195)	100	634365			36.47- 96.47	66.32
137 Toluene					CAS #: 108-88-3		
7.444	7.437 (1.205)	91	138408	5.00000	4.879	80.00- 120.00	100.00
7.437	7.437 (1.203)	92	78368			28.30- 88.30	56.62
136 Octane					CAS #: 111-65-9		
7.444	7.444 (1.205)	57	45941	5.00000	4.868	80.00- 120.00	100.00
7.444	7.444 (1.205)	85	44692			67.11- 127.11	97.28
7.444	7.444 (1.205)	43	108512			214.21- 274.21	236.20
139 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
7.688	7.688 (0.892)	75	63095	5.00000	4.860	80.00- 120.00	100.00
7.688	7.688 (0.892)	77	21719			2.15- 62.15	34.42
7.688	7.688 (0.892)	39	40536			36.09- 96.09	64.25
141 1,1,2-Trichloroethane					CAS #: 79-00-5		
7.846	7.846 (0.910)	97	48053	5.00000	4.812	80.00- 120.00	100.00
7.846	7.846 (0.910)	99	29801			31.62- 91.62	62.02
7.846	7.846 (0.910)	83	40996			56.35- 116.35	85.31
142 Tetrachloroethene					CAS #: 127-18-4		
7.881	7.881 (0.914)	166	67905	5.00000	4.917	80.00- 120.00	100.00
7.881	7.881 (0.914)	129	52325			48.71- 108.71	77.06
7.881	7.881 (0.914)	131	51507			46.55- 106.55	75.85
143 2-Hexanone					CAS #: 591-78-6		
8.003	8.003 (0.929)	58	57652	5.00000	5.026	80.00- 120.00	100.00
8.003	8.003 (0.929)	43	108442			157.91- 217.91	188.10
8.010	8.003 (0.929)	100	10390			0.00- 47.86	18.02
144 1,3-Dichloropropane					CAS #: 142-28-9		
7.989	7.989 (1.293)	76	66122	5.00000	4.885	80.00- 120.00	100.00
7.989	7.989 (1.293)	41	74797			82.96- 142.96	113.12
7.989	7.989 (1.293)	78	21067			2.55- 62.55	31.86

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
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146 Dibromochloromethane						CAS #: 124-48-1	
8.154	8.154 (0.946)	129	90433	5.00000	4.774	80.00- 120.00	100.00
8.154	8.154 (0.946)	127	72167			47.77- 107.77	79.80
148 1,2-Dibromoethane (EDB)						CAS #: 106-93-4	
8.268	8.268 (0.959)	107	76295	5.00000	4.920	80.00- 120.00	100.00
8.268	8.268 (0.959)	109	71622			64.60- 124.60	93.88
151 1-Bromo-2-Chloroethane						CAS #: 107-04-0	
7.115	7.115 (1.151)	63	87600	5.00000	5.109	80.00- 120.00	100.00
7.122	7.115 (1.152)	65	27142			0.95- 60.95	30.98
7.122	7.122 (1.152)	144	9349			0.00- 40.45	10.67
* 153 Chlorobenzene-d5						CAS #: 3114-55-4	
8.619	8.619 (1.000)	117	881547	25.0000		80.00- 120.00	100.00
8.612	8.619 (1.000)	82	488998			25.46- 85.46	55.47
154 Chlorobenzene						CAS #: 108-90-7	
8.641	8.641 (1.002)	112	114941	5.00000	4.771	80.00- 120.00	100.00
8.641	8.641 (1.002)	114	37258			2.13- 62.13	32.41
8.641	8.641 (1.002)	77	73881			26.35- 86.35	64.28
155 Ethyl Benzene						CAS #: 100-41-4	
8.684	8.684 (1.007)	106	60069	5.00000	4.986	80.00- 120.00	100.00
8.684	8.684 (1.007)	91	182813			282.48- 342.48	304.34
156 Nonane						CAS #: 111-84-2	
8.705	8.705 (1.010)	43	113446	5.00000	4.858	80.00- 120.00	100.00
8.705	8.705 (1.010)	57	102410			59.52- 119.52	90.27
8.705	8.705 (1.010)	85	34795			0.00- 59.76	30.67
158 m,p-Xylene						CAS #: 108-38-3	
8.784	8.784 (1.019)	106	71896	5.00000	4.797	80.00- 120.00	100.00
8.784	8.784 (1.019)	91	145208			171.36- 231.36	201.97
164 o-Xylene						CAS #: 95-47-6	
9.128	9.128 (1.059)	106	67685	5.00000	4.757	80.00- 120.00	100.00
9.121	9.128 (1.058)	91	144014			179.99- 239.99	212.77
165 Styrene						CAS #: 100-42-5	
9.149	9.149 (1.061)	104	117224	5.00000	4.755	80.00- 120.00	100.00
9.149	9.149 (1.061)	78	60052			19.09- 79.09	51.23
167 Bromoform						CAS #: 75-25-2	
9.350	9.350 (1.085)	173	85153	5.00000	4.741	80.00- 120.00	100.00
9.350	9.350 (1.085)	171	42688			21.45- 81.45	50.13

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
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168 Cumene						CAS #: 98-82-8	
9.407	9.414 (1.091)	105	219071	5.00000	4.870	80.00- 120.00	100.00
9.407	9.414 (1.091)	120	58840			0.00- 56.99	26.86
9.407	9.407 (1.091)	51	26142			0.00- 41.77	11.93
169 Cyclohexanone						CAS #: 108-94-1	
9.579	9.579 (1.111)	55	67736	5.00000	4.784	80.00- 120.00	100.00(a)
9.579	9.579 (1.111)	98	25727			9.22- 69.22	37.98
9.579	9.579 (1.111)	42	47657			42.60- 102.60	70.36
$ 170 4-Bromofluorobenzene						CAS #: 460-00-4	
9.601	9.601 (1.114)	174	576562	25.0000	24.727	80.00- 120.00	100.00
9.601	9.601 (1.114)	95	723420			93.06- 153.06	125.47
9.601	9.601 (1.114)	176	545541			62.87- 122.87	94.62
175 1,1,2,2-Tetrachloroethane						CAS #: 79-34-5	
9.737	9.737 (1.130)	83	107112	5.00000	4.802	80.00- 120.00	100.00
9.737	9.737 (1.130)	85	68773			34.35- 94.35	64.21
177 Bromobenzene						CAS #: 108-86-1	
9.737	9.729 (1.130)	156	68462	5.00000	4.895	80.00- 120.00	100.00
9.737	9.737 (1.130)	158	64845			67.29- 127.29	94.72
9.729	9.729 (1.129)	77	111900			132.41- 192.41	163.45
178 Propylbenzene						CAS #: 103-65-1	
9.758	9.758 (1.132)	91	254398	5.00000	4.846	80.00- 120.00	100.00
9.758	9.758 (1.132)	120	61239			0.00- 53.77	24.07
9.758	9.758 (1.132)	105	10150			0.00- 33.81	3.99
179 1,2,3-Trichloropropane						CAS #: 96-18-4	
9.787	9.787 (1.135)	110	32592	5.00000	4.851	80.00- 120.00	100.00
9.787	9.787 (1.135)	75	101946			285.00- 345.00	312.79
9.787	9.787 (1.135)	61	28367			54.06- 114.06	87.04
181 trans-1,4-Dichloro-2-butene						CAS #: 110-57-6	
9.787	9.787 (1.135)	53	24824	5.00000	4.669	80.00- 120.00	100.00
9.787	9.787 (1.135)	89	12613			21.19- 81.19	50.81
9.787	9.787 (1.135)	75	101946			372.45- 432.45	410.68
182 Decane						CAS #: 124-18-5	
9.808	9.808 (1.138)	57	134816	5.00000	4.967	80.00- 120.00	100.00
9.808	9.808 (1.138)	71	46047			4.13- 64.13	34.16
9.808	9.815 (1.138)	142	6372			0.00- 34.73	4.73
183 4-Ethyltoluene						CAS #: 622-96-8	
9.851	9.851 (1.143)	120	65376	5.00000	4.805	80.00- 120.00	100.00

				AMOUNTS				
					CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE		(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========		=======	=======	==========	=====
183 4-Ethyltoluene (continued)								
9.851	9.851 (1.143)	105	212999				296.79- 356.79	325.81
184 2-Chlorotoluene						CAS #: 95-49-8		
9.873	9.873 (1.145)	126	53933	5.00000		4.878	80.00- 120.00	100.00
9.873	9.873 (1.145)	91	196435				336.29- 396.29	364.22
9.873	9.873 (1.145)	65	14803				38.83- 98.83	27.45
185 1,3,5-Trimethylbenzene						CAS #: 108-67-8		
9.901	9.901 (1.149)	120	91229	5.00000		4.774	80.00- 120.00	100.00
9.901	9.901 (1.149)	105	188732				176.40- 236.40	206.88
188 alpha Methyl Styrene						CAS #: 98-83-9		
10.102	10.102 (1.172)	118	92281	5.00000		4.715	80.00- 120.00	100.00
10.102	10.102 (1.172)	103	52780				26.64- 86.64	57.19
189 tert-Butylbenzene						CAS #: 98-06-6		
10.174	10.174 (1.180)	119	169085	5.00000		4.809	80.00- 120.00	100.00
10.174	10.174 (1.180)	134	41511				0.00- 54.82	24.55
10.166	10.174 (1.179)	91	114268				36.92- 96.92	67.58
190 1,2,4-Trimethylbenzene						CAS #: 95-63-6		
10.224	10.224 (1.186)	105	180232	5.00000		4.783	80.00- 120.00	100.00
10.224	10.224 (1.186)	120	83645				16.58- 76.58	46.41
192 sec-Butylbenzene						CAS #: 135-98-8		
10.360	10.360 (1.202)	134	54234	5.00000		4.775	80.00- 120.00	100.00
10.353	10.360 (1.201)	105	264018				451.53- 511.53	486.81
10.360	10.353 (1.202)	91	42149				46.48- 106.48	77.72
194 p-Cymene						CAS #: 99-87-6		
10.467	10.467 (1.214)	119	230013	5.00000		4.836	80.00- 120.00	100.00
10.467	10.467 (1.214)	134	61361				0.00- 56.79	26.68
10.467	10.467 (1.214)	91	54876				0.00- 54.04	23.86
195 1,3-Dichlorobenzene						CAS #: 541-73-1		
10.517	10.517 (1.220)	146	123312	5.00000		4.816	80.00- 120.00	100.00
10.517	10.517 (1.220)	148	79006				33.53- 93.53	64.07
10.517	10.517 (1.220)	111	51949				11.05- 71.05	42.13
196 1,4-Dichlorobenzene						CAS #: 106-46-7		
10.596	10.596 (1.229)	146	126649	5.00000		4.802	80.00- 120.00	100.00
10.596	10.596 (1.229)	148	81497				33.47- 93.47	64.35
10.596	10.596 (1.229)	111	50009				9.65- 69.65	39.49
199 alpha-Chlorotoluene						CAS #: 100-44-7		
10.711	10.711 (1.243)	91	173610	5.00000		4.788	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
199 alpha-Chlorotoluene (continued)							
10.711	10.711 (1.243)	126	39012			0.00- 52.04	22.47
201 Undecane					CAS #: 1120-21-4		
10.804	10.804 (1.253)	57	153796	5.00000	4.808	80.00- 120.00	100.00
10.804	10.804 (1.253)	43	133916			55.86- 115.86	87.07
202 Butylbenzene					CAS #: 104-51-8		
10.818	10.818 (1.255)	134	60615	5.00000	4.915	80.00- 120.00	100.00
10.818	10.818 (1.255)	91	218931			331.99- 391.99	361.18
10.818	10.818 (1.255)	92	114155			161.01- 221.01	188.33
204 1,2-Dichlorobenzene					CAS #: 95-50-1		
10.926	10.926 (1.268)	146	119023	5.00000	4.811	80.00- 120.00	100.00
10.919	10.926 (1.267)	148	75395			33.23- 93.23	63.34
10.919	10.918 (1.267)	111	50749			12.36- 72.36	42.64
206 1,2-Dibromo-3-chloropropane					CAS #: 96-12-8		
11.606	11.606 (1.347)	157	71033	5.00000	4.952	80.00- 120.00	100.00
11.599	11.599 (1.346)	75	63095			58.96- 118.96	88.82
11.606	11.606 (1.347)	155	53742			47.82- 107.82	75.66
207 Dodecane					CAS #: 112-40-3		
11.714	11.714 (1.359)	57	165056	6.18000	6.103	80.00- 120.00	100.00
11.714	11.714 (1.359)	43	134248			50.85- 110.85	81.33
213 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
12.301	12.301 (1.427)	180	110148	6.29500	6.268	80.00- 120.00	100.00
12.301	12.301 (1.427)	182	106996			65.40- 125.40	97.14
215 Hexachlorobutadiene					CAS #: 87-68-3		
12.387	12.387 (1.437)	225	84822	6.43500	6.390	80.00- 120.00	100.00
12.387	12.387 (1.437)	223	53972			33.70- 93.70	63.63
216 Naphthalene					CAS #: 91-20-3		
12.552	12.552 (1.456)	128	38541	0.63500	0.7182	80.00- 120.00	100.00
12.552	12.552 (1.456)	127	5058			0.00- 43.10	13.12
222 1,2,3-Trichlorobenzene					CAS #: 87-61-6		
12.802	12.802 (1.485)	180	106940	6.65500	6.650	80.00- 120.00	100.00
12.802	12.802 (1.485)	182	103120			65.67- 125.67	96.43
12.795	12.802 (1.484)	145	37861			6.02- 66.02	35.40

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd3.i
Lab File ID: 3062219.d
Lab Smp Id: ICAL Level 7
Analysis Type: VOA
Quant Type: ISTD
Operator: LD
Method File: /chem/msd3.i/22JUN21.b/321q0622a.m
Misc Info: 5.0ppbv (5.0ppbv)

Calibration Date: 22-JUN-2021
Calibration Time: 23:12
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	243405	146043	340767	257265	5.69
108 1,4-Difluorobenze	874076	524446	1223706	926448	5.99
153 Chlorobenzene-d5	831223	498734	1163712	881547	6.05

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.28	4.95	5.61	5.28	0.00
108 1,4-Difluorobenze	6.18	5.85	6.51	6.18	0.00
153 Chlorobenzene-d5	8.62	8.29	8.95	8.62	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msd3.i/22JUN21.b/3062219.d

Date : 22-JUN-2021 22:18

Client ID:

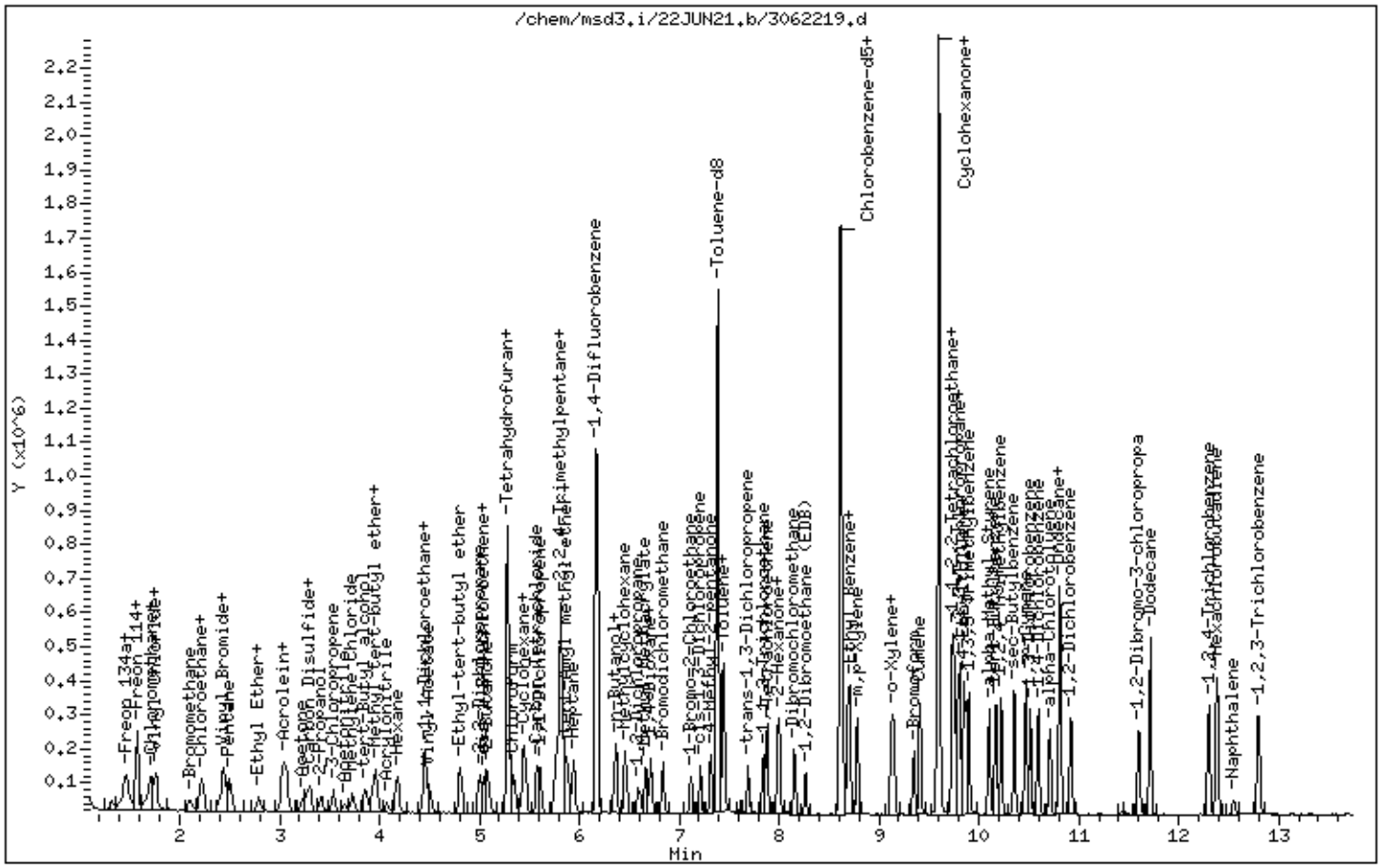
Instrument: msd3.i

Sample Info: 200mL 3018-2116

Operator: LD

Column phase: RTX-624

Column diameter: 0.25



US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msd3.i/22JUN21.b/3062209.d
Lab Smp Id: ICAL Level 8
Inj Date : 22-JUN-2021 17:39
Operator : LD Inst ID: msd3.i
Smp Info : 20mL 3018-2013
Misc Info : 20ppbv (200ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msd3.i/22JUN21.b/321q0622a.m
Meth Date : 23-Jun-2021 12:22 lk8g Quant Type: ISTD
Cal Date : 22-JUN-2021 22:44 Cal File: 3062220.d
Als bottle: 5 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT20spICAL.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 90 Bromochloromethane					CAS #: 74-97-5		
5.284	5.284 (1.000)	130	238218	25.0000		80.00- 120.00	100.00
5.284	5.284 (1.000)	128	185268			48.46- 108.46	77.77
5.270	5.270 (1.000)	49	355143			120.39- 180.39	149.08
* 108 1,4-Difluorobenzene					CAS #: 540-36-3		
6.180	6.180 (1.000)	114	858832	25.0000		80.00- 120.00	100.00
6.166	6.180 (1.000)	88	133184			0.00- 45.52	15.51
* 153 Chlorobenzene-d5					CAS #: 3114-55-4		
8.619	8.619 (1.000)	117	811449	25.0000		80.00- 120.00	100.00
8.619	8.619 (1.000)	82	449887			25.46- 85.46	55.44
3 Freon 143a					CAS #: 420-46-2		
1.339	1.353 (0.253)	65	85500	20.0000	21.456	80.00- 120.00	100.00
1.339	1.353 (0.253)	69	206588			217.09- 277.09	241.62
1.339	1.353 (0.253)	64	22705			0.00- 55.87	26.56
6 Propane					CAS #: 74-98-6		
1.423	1.422 (0.269)	43	42815	20.0000	19.722	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
6 Propane (continued)							
1.423	1.422 (0.269)	39	31090			41.62- 101.62	72.61
1.423	1.422 (0.269)	41	23906			22.97- 82.97	55.84
13 Freon 142b					CAS #: 75-68-3		
1.591	1.604 (0.301)	65	264156	20.0000	20.846	80.00- 120.00	100.00
1.591	1.604 (0.301)	45	74425			0.00- 58.17	28.17
36 1-Pentene					CAS #: 109-67-1		
2.444	2.444 (0.463)	55	165124	20.0000	20.519	80.00- 120.00	100.00
2.444	2.444 (0.463)	42	211095			99.17- 159.17	127.84
40 Freon 123a					CAS #: 354-23-4		
2.878	2.878 (0.545)	117	195571	20.0000	20.871	80.00- 120.00	100.00
2.878	2.878 (0.545)	67	262508			103.13- 163.13	134.23
41 Freon 123					CAS #: 306-83-2		
2.976	2.976 (0.563)	83	284633	20.0000	20.710	80.00- 120.00	100.00
2.976	2.976 (0.563)	133	62462			0.00- 51.81	21.94
2.976	2.976 (0.563)	85	190087			37.13- 97.13	66.78
55 Cyclopentene					CAS #: 142-29-0		
3.549	3.549 (0.672)	67	299705	20.0000	20.487	80.00- 120.00	100.00
3.549	3.549 (0.672)	68	113549			7.90- 67.90	37.89
3.549	3.549 (0.672)	53	75244			0.00- 54.87	25.11
56 Methyl Acetate					CAS #: 79-20-9		
3.577	3.577 (0.677)	43	298972	20.0000	19.830	80.00- 120.00	100.00
3.577	3.577 (0.677)	74	51281			0.00- 47.15	17.15
74 Chloroprene					CAS #: 126-99-8		
4.501	4.515 (0.852)	53	259538	20.0000	20.329	80.00- 120.00	100.00
4.515	4.515 (0.854)	88	110252			12.33- 72.33	42.48
4.501	4.515 (0.852)	50	71326			0.00- 57.62	27.48
75 1-Propanol					CAS #: 71-23-8		
4.613	4.613 (0.873)	59	36462	20.0000	18.474	80.00- 120.00	100.00
4.613	4.613 (0.873)	42	29989			53.89- 113.89	82.25
4.613	4.613 (0.873)	41	20012			24.09- 84.09	54.88
88 Methyl Acrylate					CAS #: 96-33-3		
5.130	5.130 (0.971)	55	301487	20.0000	19.650	80.00- 120.00	100.00
5.130	5.130 (0.971)	85	42054			0.00- 43.24	13.95
5.130	5.130 (0.971)	58	28731			0.00- 38.83	9.53
103 Isobutanol					CAS #: 78-83-1		
5.774	5.774 (1.093)	39	45022	20.0000	15.967	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
103 Isobutanol (continued)							
5.774	5.774 (1.093)	43	157318			327.69- 387.69	349.42
5.774	5.774 (1.093)	41	117147			237.56- 297.56	260.20
113 Ethyl acrylate					CAS #: 140-88-5		
6.474	6.474 (0.751)	99	25065	20.0000	19.329	80.00- 120.00	100.00
6.460	6.460 (0.749)	45	38581			124.67- 184.67	153.92
6.460	6.460 (0.749)	55	404461			1601.30-1661.30	1613.65
115 2-Pentanone					CAS #: 107-87-9		
6.558	6.557 (0.761)	43	535509	20.0000	17.656	80.00- 120.00	100.00
6.558	6.557 (0.761)	58	47669			0.00- 37.25	8.90
6.558	6.557 (0.761)	86	88921			0.00- 45.08	16.60
145 Butyl Acetate					CAS #: 123-86-4		
8.068	8.068 (1.305)	56	220160	20.0000	19.446	80.00- 120.00	100.00
8.068	8.068 (1.305)	73	79760			5.16- 65.16	36.23
8.068	8.068 (1.305)	43	546587			214.00- 274.00	248.27
157 1,1,1,2-Tetrachloroethane					CAS #: 630-20-6		
8.712	8.712 (1.011)	131	258075	20.0000	21.144	80.00- 120.00	100.00
8.712	8.712 (1.011)	117	177086			38.22- 98.22	68.62
8.712	8.712 (1.011)	95	95847			7.54- 67.54	37.14
166 2-Heptanone					CAS #: 110-43-0		
9.221	9.221 (1.745)	58	335936	20.0000	19.211	80.00- 120.00	100.00
9.221	9.221 (1.745)	43	545255			133.36- 193.36	162.31
172 D-Limonene					CAS #: 5989-27-5		
10.424	10.417 (1.209)	68	315767	20.0000	21.419	80.00- 120.00	100.00
10.424	10.424 (1.209)	93	228493			42.08- 102.08	72.36
186 4-Chlorotoluene					CAS #: 106-43-4		
9.973	9.973 (1.157)	126	219355	20.0000	20.645	80.00- 120.00	100.00
9.973	9.966 (1.157)	91	743925			305.94- 365.94	339.14
9.966	9.966 (1.156)	63	100352			15.44- 75.44	45.75
197 1,2,3-Trimethylbenzene					CAS #: 526-73-8		
10.596	10.596 (1.229)	120	299929	20.0000	20.594	80.00- 120.00	100.00
10.596	10.596 (1.229)	105	696099			206.43- 266.43	232.09
10.596	10.596 (1.229)	77	85107			0.00- 58.29	28.38
205 Hexachloroethane					CAS #: 67-72-1		
11.098	11.098 (1.288)	201	201656	20.0000	22.680	80.00- 120.00	100.00
11.098	11.098 (1.288)	117	276979			109.77- 169.77	137.35

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
208 1,3,5-Trichlorobenzene					CAS #: 108-70-3		
11.728	11.728 (1.361)	180	340241	20.0000	17.550	80.00- 120.00	100.00
11.728	11.728 (1.361)	182	325140			65.79- 125.79	95.56
210 alpha-Pinene					CAS #: 80-56-8		
9.371	9.371 (1.087)	93	526271	20.0000	20.974	80.00- 120.00	100.00
9.371	9.371 (1.087)	77	158800			0.13- 60.13	30.17
214 beta-Pinene					CAS #: 127-91-3		
9.944	9.944 (1.154)	93	426022	20.0000	21.620	80.00- 120.00	100.00
9.973	9.966 (1.157)	91	743925			145.95- 205.95	174.62

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd3.i
Lab File ID: 3062209.d
Lab Smp Id: ICAL Level 8
Analysis Type: VOA
Quant Type: ISTD
Operator: LD
Method File: /chem/msd3.i/22JUN21.b/321q0622a.m
Misc Info: 20ppbv (200ppbv)

Calibration Date: 22-JUN-2021
Calibration Time: 23:12
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	243405	146043	340767	238218	-2.13
108 1,4-Difluorobenze	874076	524446	1223706	858832	-1.74
153 Chlorobenzene-d5	831223	498734	1163712	811449	-2.38

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.28	4.95	5.61	5.28	0.00
108 1,4-Difluorobenze	6.18	5.85	6.51	6.18	0.00
153 Chlorobenzene-d5	8.62	8.29	8.95	8.62	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msd3.i/22JUN21.b/3062209.d

Date : 22-JUN-2021 17:39

Client ID:

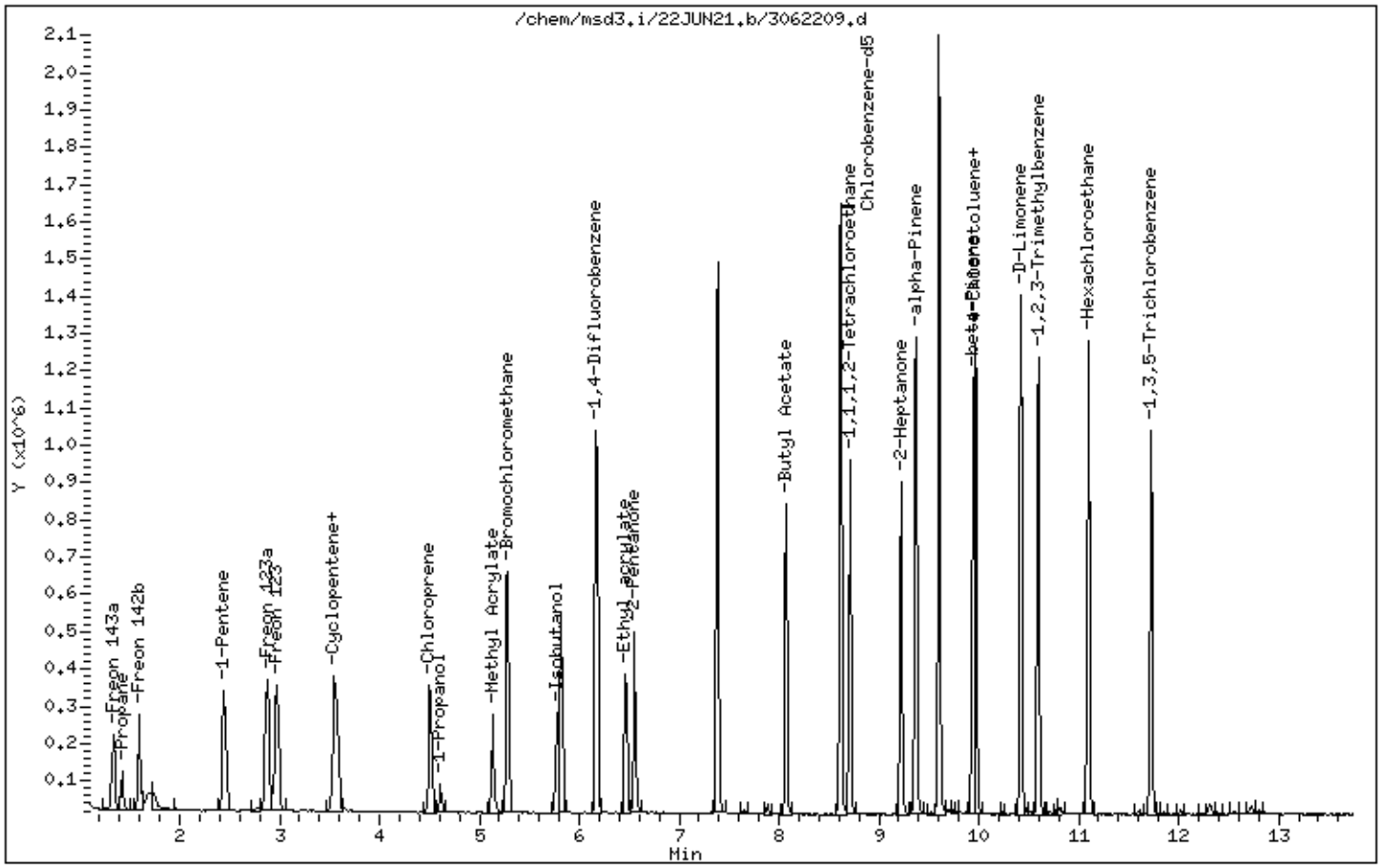
Instrument: msd3.i

Sample Info: 20mL 3018-2013

Operator: LD

Column phase: RTX-624

Column diameter: 0.25



US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msd3.i/22JUN21.b/3062220.d
Lab Smp Id: ICAL Level 8
Inj Date : 22-JUN-2021 22:44
Operator : LD Inst ID: msd3.i
Smp Info : 20mL 3018-2115
Misc Info : 20ppbv (200ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msd3.i/22JUN21.b/321q0622a.m
Meth Date : 23-Jun-2021 12:22 lk8g Quant Type: ISTD
Cal Date : 22-JUN-2021 22:44 Cal File: 3062220.d
Als bottle: 2 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT20ICAL.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
4 Freon 134a					CAS #: 811-97-2		
1.395	1.395 (0.265)	83	129641	20.0000	20.659	80.00- 120.00	100.00
1.395	1.395 (0.265)	69	106473			51.82- 111.82	82.13
1.478	1.479 (0.281)	51	337072			194.91- 254.91	260.00
5 Propylene					CAS #: 115-07-1		
1.423	1.423 (0.270)	41	129315	20.0000	20.300	80.00- 120.00	100.00
1.423	1.423 (0.270)	42	85896			35.61- 95.61	66.42
1.423	1.423 (0.270)	39	94582			42.66- 102.66	73.14
7 1,1-Difluoroethane					CAS #: 75-37-6		
1.437	1.437 (0.273)	65	83946	20.0000	20.216	80.00- 120.00	100.00
1.478	1.479 (0.281)	51	337072			321.86- 381.86	401.53
1.437	1.437 (0.273)	47	63389			45.34- 105.34	75.51
8 Freon 12					CAS #: 75-71-8		
1.450	1.465 (0.275)	85	358781	20.0000	19.529	80.00- 120.00	100.00
1.450	1.465 (0.275)	87	117251			2.63- 62.63	32.68
9 Chlorodifluoromethane					CAS #: 75-45-6		
1.478	1.479 (0.281)	67	39312	20.0000	19.470	80.00- 120.00	100.00

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
9 Chlorodifluoromethane (continued)							
1.478	1.479 (0.281)	51	337072			719.76- 779.76	857.43
10 Freon 114					CAS #: 76-14-2		
1.562	1.562 (0.296)	135	269564	20.0000	19.803	80.00- 120.00	100.00
1.562	1.562 (0.296)	137	86297			2.12- 62.12	32.01
12 Isobutane					CAS #: 75-28-5		
1.576	1.576 (0.299)	43	293920	20.0000	20.529	80.00- 120.00	100.00
1.576	1.576 (0.299)	42	95420			2.44- 62.44	32.46
1.576	1.576 (0.299)	58	11334			0.00- 33.26	3.86
15 Chloromethane					CAS #: 74-87-3		
1.646	1.646 (0.312)	50	156507	20.0000	20.497	80.00- 120.00	100.00
1.646	1.646 (0.312)	52	53916			2.41- 62.41	34.45
18 Butane					CAS #: 106-97-8		
1.702	1.702 (0.323)	58	33313	20.0000	18.474	80.00- 120.00	100.00
1.702	1.702 (0.323)	43	254263			727.41- 787.41	763.25
19 Vinyl Chloride					CAS #: 75-01-4		
1.730	1.744 (0.328)	62	149268	20.0000	18.268	80.00- 120.00	100.00
1.730	1.744 (0.328)	64	46821			1.28- 61.28	31.37
20 1,3-Butadiene					CAS #: 106-99-0		
1.758	1.758 (0.334)	54	137146	20.0000	18.314	80.00- 120.00	100.00
1.758	1.758 (0.334)	39	133734			69.23- 129.23	97.51
24 Bromomethane					CAS #: 74-83-9		
2.094	2.094 (0.397)	94	121745	20.0000	18.839	80.00- 120.00	100.00
2.094	2.094 (0.397)	96	114666			62.78- 122.78	94.19
30 Chloroethane					CAS #: 75-00-3		
2.192	2.206 (0.416)	64	77505	20.0000	20.207	80.00- 120.00	100.00
2.192	2.206 (0.416)	66	25715			1.44- 61.44	33.18
2.192	2.206 (0.416)	49	27043			4.12- 64.12	34.89
31 Isopentane					CAS #: 78-78-4		
2.220	2.220 (0.421)	43	206284	20.0000	21.031	80.00- 120.00	100.00
2.220	2.220 (0.421)	57	140968			38.82- 98.82	68.34
32 Vinyl Bromide					CAS #: 593-60-2		
2.388	2.388 (0.453)	106	140476	20.0000	19.994	80.00- 120.00	100.00
2.388	2.388 (0.453)	108	132323			63.14- 123.14	94.20
33 Freon 11					CAS #: 75-69-4		
2.430	2.430 (0.461)	101	393482	20.0000	20.243	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
33 Freon 11 (continued)							
2.430	2.430 (0.461)	103	253926			35.12- 95.12	64.53
34 Dichlorofluoromethane					CAS #: 75-43-4		
2.444	2.444 (0.464)	67	318380	20.0000	20.490	80.00- 120.00	100.00
2.444	2.444 (0.464)	69	97738			0.74- 60.74	30.70
35 Pentane					CAS #: 109-66-0		
2.500	2.500 (0.474)	43	317191	20.0000	20.298	80.00- 120.00	100.00
2.500	2.500 (0.474)	57	49339			0.00- 45.97	15.55
2.500	2.500 (0.474)	72	26407			0.00- 38.10	8.33
38 Ethyl Ether					CAS #: 60-29-7		
2.780	2.780 (0.527)	74	66932	20.0000	19.104	80.00- 120.00	100.00
2.780	2.780 (0.527)	59	119789			147.68- 207.68	178.97
2.780	2.780 (0.527)	45	159778			206.40- 266.40	238.72
39 Ethanol					CAS #: 64-17-5		
2.752	2.766 (0.522)	46	28807	20.0000	18.320	80.00- 120.00	100.00
2.780	2.780 (0.527)	45	159778			523.01- 583.01	554.65
42 Acrolein					CAS #: 107-02-8		
3.032	3.032 (0.575)	55	52494	20.0000	20.117	80.00- 120.00	100.00
3.032	3.032 (0.575)	56	75605			110.33- 170.33	144.03
43 Freon 113					CAS #: 76-13-1		
3.032	3.032 (0.575)	151	273535	20.0000	20.585	80.00- 120.00	100.00
3.032	3.032 (0.575)	153	173964			33.72- 93.72	63.60
3.032	3.032 (0.575)	101	323471			89.67- 149.67	118.26
44 1,1-Dichloroethene					CAS #: 75-35-4		
3.074	3.074 (0.583)	96	147536	20.0000	18.434	80.00- 120.00	100.00
3.074	3.074 (0.583)	98	94290			33.39- 93.39	63.91
3.060	3.074 (0.581)	61	282368			163.82- 223.82	191.39
47 Acetone					CAS #: 67-64-1		
3.213	3.213 (0.610)	58	84569	20.0000	19.124	80.00- 120.00	100.00
3.213	3.213 (0.610)	43	283524			299.66- 359.66	335.26
48 Carbon Disulfide					CAS #: 75-15-0		
3.297	3.297 (0.626)	76	402637	20.0000	20.220	80.00- 120.00	100.00
49 Iodomethane					CAS #: 74-88-4		
3.269	3.269 (0.620)	142	397755	20.0000	23.100	80.00- 120.00	100.00
3.269	3.269 (0.620)	127	177692			14.58- 74.58	44.67

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
52 2-Propanol					CAS #: 67-63-0		
3.395	3.395 (0.644)	45	327864	20.0000	20.616	80.00- 120.00	100.00
3.395	3.395 (0.644)	43	59812			0.00- 48.61	18.24
54 3-Chloropropene					CAS #: 107-05-1		
3.535	3.535 (0.671)	76	64840	20.0000	18.913	80.00- 120.00	100.00
3.535	3.535 (0.671)	41	237428			338.06- 398.06	366.18
57 Acetonitrile					CAS #: 75-05-8		
3.633	3.633 (0.689)	41	139359	20.0000	20.013	80.00- 120.00	100.00
3.633	3.633 (0.689)	40	74812			21.81- 81.81	53.68
3.633	3.633 (0.689)	38	16914			0.00- 41.86	12.14
59 Methylene Chloride					CAS #: 75-09-2		
3.717	3.717 (0.705)	49	214111	20.0000	20.231	80.00- 120.00	100.00
3.717	3.717 (0.705)	84	126022			30.77- 90.77	58.86
3.717	3.717 (0.705)	51	64303			1.39- 61.39	30.03
62 tert-Butyl alcohol					CAS #: 75-65-0		
3.857	3.857 (0.732)	59	415054	20.0000	20.793	80.00- 120.00	100.00
3.857	3.857 (0.732)	41	88359			0.00- 51.05	21.29
3.857	3.857 (0.732)	57	43467			0.00- 41.68	10.47
63 Methyl tert-butyl ether					CAS #: 1634-04-4		
3.941	3.941 (0.748)	73	439233	20.0000	20.386	80.00- 120.00	100.00
3.941	3.941 (0.748)	57	128756			0.00- 58.86	29.31
3.941	3.941 (0.748)	41	118579			0.00- 57.27	27.00
64 trans-1,2-Dichloroethene					CAS #: 156-60-5		
3.969	3.969 (0.753)	98	95585	20.0000	17.747	80.00- 120.00	100.00
3.969	3.969 (0.753)	61	259923			244.59- 304.59	271.93
3.969	3.969 (0.753)	96	151389			129.84- 189.84	158.38
66 Acrylonitrile					CAS #: 107-13-1		
4.067	4.067 (0.772)	52	109987	20.0000	17.015	80.00- 120.00	100.00
4.067	4.067 (0.772)	53	130352			88.50- 148.50	118.52
67 Hexane					CAS #: 110-54-3		
4.165	4.179 (0.790)	57	286776	20.0000	19.637	80.00- 120.00	100.00
4.165	4.179 (0.790)	43	179251			32.99- 92.99	62.51
4.165	4.179 (0.790)	86	36198			0.00- 42.56	12.62
71 1,1-Dichloroethane					CAS #: 75-34-3		
4.459	4.459 (0.846)	63	285967	20.0000	19.040	80.00- 120.00	100.00
4.459	4.459 (0.846)	65	87277			0.76- 60.76	30.52

					AMOUNTS			
					CAL-AMT	ON-COL		
	RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
	72 Isopropyl ether						CAS #: 108-20-3	
	4.445	4.445 (0.843)	45	649480	20.0000	21.073	80.00- 120.00	100.00
	4.445	4.445 (0.843)	87	138914			0.00- 51.37	21.39
	4.445	4.445 (0.843)	59	70481			0.00- 41.09	10.85
	73 Vinyl Acetate						CAS #: 108-05-4	
	4.501	4.501 (0.854)	86	35060	20.0000	18.987	80.00- 120.00	100.00
	4.501	4.501 (0.854)	43	511715			1391.63-1451.63	1459.54
	79 Ethyl-tert-butyl ether						CAS #: 637-92-3	
	4.809	4.809 (0.912)	59	612983	20.0000	20.601	80.00- 120.00	100.00
	4.809	4.809 (0.912)	87	208206			3.22- 63.22	33.97
	4.809	4.809 (0.912)	41	116192			0.00- 48.12	18.96
	84 2,2-Dichloropropane						CAS #: 594-20-7	
	5.004	5.004 (0.950)	77	285442	20.0000	20.401	80.00- 120.00	100.00
	5.004	5.004 (0.950)	79	93306			2.00- 62.00	32.69
	5.004	5.004 (0.950)	97	69169			0.00- 53.36	24.23
	85 cis-1,2-Dichloroethene						CAS #: 156-59-2	
	5.046	5.046 (0.958)	98	95859	20.0000	17.954	80.00- 120.00	100.00
	5.046	5.046 (0.958)	96	153492			127.22- 187.22	160.12
	5.046	5.046 (0.958)	61	319089			283.85- 343.85	332.87
	86 2-Butanone						CAS #: 78-93-3	
	5.060	5.074 (0.960)	72	74025	20.0000	19.849	80.00- 120.00	100.00
	5.074	5.074 (0.963)	43	790149			1055.75-1115.75	1067.41
	5.060	5.074 (0.960)	57	29507			10.59- 70.59	39.86
	87 Ethyl Acetate						CAS #: 141-78-6	
	5.088	5.088 (0.965)	45	62917	20.0000	20.464	80.00- 120.00	100.00
	5.046	5.046 (0.958)	61	319089			450.31- 510.31	507.16
	5.088	5.088 (0.965)	70	39555			30.42- 90.42	62.87
	89 Tetrahydrofuran						CAS #: 109-99-9	
	5.270	5.270 (1.000)	42	206335	20.0000	19.620	80.00- 120.00	100.00
	5.270	5.270 (1.000)	71	65936			2.92- 62.92	31.96
	5.270	5.270 (1.000)	72	70062			3.54- 63.54	33.96
*	90 Bromochloromethane						CAS #: 74-97-5	
	5.270	5.284 (1.000)	130	263723	25.0000		80.00- 120.00	100.00
	5.270	5.284 (1.000)	128	203258			48.46- 108.46	77.07
	5.270	5.270 (1.000)	49	398101			120.39- 180.39	150.95
	92 Chloroform						CAS #: 67-66-3	
	5.340	5.340 (1.013)	83	317723	20.0000	19.215	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
92 Chloroform (continued)							
5.340	5.340 (1.013)	85	208174			34.71- 94.71	65.52
94 Cyclohexane					CAS #: 110-82-7		
5.438	5.438 (1.032)	84	206465	20.0000	19.755	80.00- 120.00	100.00
5.438	5.438 (1.032)	56	305753			120.40- 180.40	148.09
5.438	5.438 (1.032)	41	173004			54.20- 114.20	83.79
96 1,1,1-Trichloroethane					CAS #: 71-55-6		
5.452	5.466 (1.034)	97	353780	20.0000	19.035	80.00- 120.00	100.00
5.452	5.466 (1.034)	99	226711			33.76- 93.76	64.08
97 Carbon Tetrachloride					CAS #: 56-23-5		
5.578	5.578 (1.058)	119	354645	20.0000	20.718	80.00- 120.00	100.00
5.578	5.578 (1.058)	117	369659			73.68- 133.68	104.23
99 1,1-Dichloropropene					CAS #: 563-58-6		
5.606	5.606 (0.909)	110	86731	20.0000	19.946	80.00- 120.00	100.00
5.606	5.606 (0.909)	75	225888			231.09- 291.09	260.45
101 2,2,4-Trimethylpentane					CAS #: 540-84-1		
5.774	5.774 (1.096)	57	933654	20.0000	20.443	80.00- 120.00	100.00
5.774	5.774 (1.096)	56	290883			1.12- 61.12	31.16
5.774	5.774 (1.096)	41	258502			0.00- 57.49	27.69
102 Benzene					CAS #: 71-43-2		
5.788	5.788 (0.939)	78	428096	20.0000	19.634	80.00- 120.00	100.00
5.788	5.788 (0.939)	77	100116			0.00- 53.80	23.39
$ 104 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
5.816	5.816 (1.104)	65	368537	25.0000	25.394	80.00- 120.00	100.00
5.816	5.816 (1.104)	67	184306			21.66- 81.66	50.01
105 tert-Amyl methyl ether					CAS #: 994-05-8		
5.858	5.858 (0.950)	87	120883	20.0000	20.792	80.00- 120.00	100.00
5.858	5.858 (0.950)	73	475761			365.20- 425.20	393.57
5.858	5.858 (0.950)	55	144092			91.31- 151.31	119.20
106 1,2-Dichloroethane					CAS #: 107-06-2		
5.886	5.886 (0.955)	62	242448	20.0000	19.314	80.00- 120.00	100.00
5.886	5.886 (0.955)	64	75740			1.20- 61.20	31.24
107 Heptane					CAS #: 142-82-5		
5.942	5.942 (0.964)	71	166097	20.0000	19.340	80.00- 120.00	100.00
5.942	5.942 (0.964)	43	348495			179.02- 239.02	209.81
5.942	5.942 (0.964)	57	189277			84.85- 144.85	113.96

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 108 1,4-Difluorobenzene						CAS #: 540-36-3	
6.166	6.180 (1.000)	114	955496	25.0000		80.00- 120.00	100.00
6.166	6.180 (1.000)	88	150786			0.00- 45.52	15.78
110 n-Butanol						CAS #: 71-36-3	
6.348	6.348 (1.030)	56	135772	20.0000	19.427	80.00- 120.00	100.00
6.348	6.348 (1.030)	41	97586			40.21- 100.21	71.87
6.348	6.348 (1.030)	43	75984			25.00- 85.00	55.96
111 Trichloroethene						CAS #: 79-01-6	
6.362	6.362 (1.032)	95	210526	20.0000	19.246	80.00- 120.00	100.00
6.362	6.362 (1.032)	130	220731			74.96- 134.96	104.85
6.362	6.362 (1.032)	97	136718			34.80- 94.80	64.94
114 1,2-Dichloropropane						CAS #: 78-87-5	
6.585	6.586 (1.068)	63	88762	20.0000	17.562	80.00- 120.00	100.00
6.585	6.586 (1.068)	62	71989			52.03- 112.03	81.10
6.585	6.586 (1.068)	41	85754			79.97- 139.97	96.61
116 Methyl Methacrylate						CAS #: 80-62-6	
6.664	6.664 (0.774)	69	173646	20.0000	19.932	80.00- 120.00	100.00
6.664	6.664 (0.774)	41	278436			134.02- 194.02	160.35
6.664	6.664 (0.774)	100	67667			9.54- 69.54	38.97
117 1,4-Dioxane						CAS #: 123-91-1	
6.699	6.699 (1.087)	88	111628	20.0000	20.210	80.00- 120.00	100.00
6.699	6.699 (1.087)	58	94250			55.80- 115.80	84.43
6.692	6.699 (1.085)	57	41965			8.68- 68.68	37.59
118 Dibromomethane						CAS #: 74-95-3	
6.714	6.721 (0.780)	174	191623	20.0000	19.750	80.00- 120.00	100.00
6.714	6.721 (0.780)	93	188128			67.27- 127.27	98.18
6.714	6.721 (0.780)	95	155218			50.92- 110.92	81.00
122 Bromodichloromethane						CAS #: 75-27-4	
6.836	6.836 (1.109)	83	348185	20.0000	19.000	80.00- 120.00	100.00
6.836	6.836 (1.109)	85	221251			34.31- 94.31	63.54
126 cis-1,3-Dichloropropene						CAS #: 10061-01-5	
7.208	7.208 (1.169)	75	273558	20.0000	20.084	80.00- 120.00	100.00
7.208	7.208 (1.169)	77	88939			1.42- 61.42	32.51
7.208	7.208 (1.169)	39	191840			38.56- 98.56	70.13
127 Methylcyclohexane						CAS #: 108-87-2	
6.460	6.460 (1.048)	83	285545	20.0000	19.521	80.00- 120.00	100.00
6.460	6.460 (1.048)	98	127891			15.60- 75.60	44.79

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
127 Methylcyclohexane (continued)							
6.460	6.460 (1.048)	55	287852			78.53- 138.53	100.81
131 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.315	7.316 (1.186)	58	182321	20.0000	19.686	80.00- 120.00	100.00
7.315	7.316 (1.186)	43	476447			231.30- 291.30	261.32
7.315	7.316 (1.186)	85	69771			8.94- 68.94	38.27
$ 134 Toluene-d8					CAS #: 2037-26-5		
7.380	7.387 (1.197)	98	986180	25.0000	25.058	80.00- 120.00	100.00
7.380	7.387 (1.197)	70	114166			0.00- 41.47	11.58
7.380	7.387 (1.197)	100	654564			36.47- 96.47	66.37
137 Toluene					CAS #: 108-88-3		
7.437	7.437 (1.206)	91	589912	20.0000	20.163	80.00- 120.00	100.00
7.437	7.437 (1.206)	92	342233			28.30- 88.30	58.01
136 Octane					CAS #: 111-65-9		
7.444	7.444 (1.207)	57	200106	20.0000	20.558	80.00- 120.00	100.00
7.444	7.444 (1.207)	85	198709			67.11- 127.11	99.30
7.444	7.444 (1.207)	43	493159			214.21- 274.21	246.45
139 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
7.688	7.688 (0.893)	75	269205	20.0000	20.191	80.00- 120.00	100.00
7.688	7.688 (0.893)	77	86100			2.15- 62.15	31.98
7.688	7.688 (0.893)	39	181147			36.09- 96.09	67.29
141 1,1,2-Trichloroethane					CAS #: 79-00-5		
7.838	7.846 (0.910)	97	204634	20.0000	19.957	80.00- 120.00	100.00
7.838	7.846 (0.910)	99	125849			31.62- 91.62	61.50
7.838	7.846 (0.910)	83	177971			56.35- 116.35	86.97
142 Tetrachloroethene					CAS #: 127-18-4		
7.874	7.881 (0.914)	166	286206	20.0000	20.181	80.00- 120.00	100.00
7.874	7.881 (0.914)	129	225244			48.71- 108.71	78.70
7.874	7.881 (0.914)	131	221908			46.55- 106.55	77.53
143 2-Hexanone					CAS #: 591-78-6		
8.003	8.003 (0.929)	58	249131	20.0000	21.152	80.00- 120.00	100.00
8.003	8.003 (0.929)	43	465953			157.91- 217.91	187.03
8.003	8.003 (0.929)	100	45265			0.00- 47.86	18.17
144 1,3-Dichloropropane					CAS #: 142-28-9		
7.989	7.989 (1.296)	76	281259	20.0000	20.149	80.00- 120.00	100.00
7.989	7.989 (1.296)	41	321798			82.96- 142.96	114.41
7.989	7.989 (1.296)	78	91933			2.55- 62.55	32.69

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
146 Dibromochloromethane						CAS #: 124-48-1	
8.154	8.154 (0.947)	129	400555	20.0000	20.591	80.00- 120.00	100.00
8.154	8.154 (0.947)	127	309809			47.77- 107.77	77.34
148 1,2-Dibromoethane (EDB)						CAS #: 106-93-4	
8.261	8.268 (0.959)	107	325483	20.0000	20.440	80.00- 120.00	100.00
8.261	8.268 (0.959)	109	308152			64.60- 124.60	94.68
151 1-Bromo-2-Chloroethane						CAS #: 107-04-0	
7.115	7.115 (1.154)	63	355559	20.0000	20.106	80.00- 120.00	100.00
7.115	7.115 (1.154)	65	109912			0.95- 60.95	30.91
7.115	7.122 (1.154)	144	36823			0.00- 40.45	10.36
* 153 Chlorobenzene-d5						CAS #: 3114-55-4	
8.612	8.619 (1.000)	117	905256	25.0000		80.00- 120.00	100.00
8.612	8.619 (1.000)	82	503885			25.46- 85.46	55.66
154 Chlorobenzene						CAS #: 108-90-7	
8.641	8.641 (1.003)	112	497423	20.0000	20.105	80.00- 120.00	100.00
8.641	8.641 (1.003)	114	163024			2.13- 62.13	32.77
8.641	8.641 (1.003)	77	283757			26.35- 86.35	57.05
155 Ethyl Benzene						CAS #: 100-41-4	
8.684	8.684 (1.008)	106	257953	20.0000	20.850	80.00- 120.00	100.00
8.684	8.684 (1.008)	91	805391			282.48- 342.48	312.22
156 Nonane						CAS #: 111-84-2	
8.705	8.705 (1.011)	43	511680	20.0000	21.338	80.00- 120.00	100.00
8.705	8.705 (1.011)	57	461512			59.52- 119.52	90.20
8.705	8.705 (1.011)	85	155284			0.00- 59.76	30.35
158 m,p-Xylene						CAS #: 108-38-3	
8.784	8.784 (1.020)	106	316131	20.0000	20.539	80.00- 120.00	100.00
8.784	8.784 (1.020)	91	644124			171.36- 231.36	203.75
164 o-Xylene						CAS #: 95-47-6	
9.121	9.128 (1.059)	106	306102	20.0000	20.949	80.00- 120.00	100.00
9.121	9.128 (1.059)	91	645277			179.99- 239.99	210.80
165 Styrene						CAS #: 100-42-5	
9.142	9.149 (1.062)	104	529383	20.0000	20.912	80.00- 120.00	100.00
9.142	9.149 (1.062)	78	262274			19.09- 79.09	49.54
167 Bromoform						CAS #: 75-25-2	
9.350	9.350 (1.086)	173	383414	20.0000	20.786	80.00- 120.00	100.00
9.350	9.350 (1.086)	171	199648			21.45- 81.45	52.07

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
168 Cumene					CAS #: 98-82-8		
9.407	9.414 (1.092)	105	965419	20.0000	20.898	80.00- 120.00	100.00
9.414	9.414 (1.093)	120	262721			0.00- 56.99	27.21
9.407	9.407 (1.092)	51	114165			0.00- 41.77	11.83
169 Cyclohexanone					CAS #: 108-94-1		
9.579	9.579 (1.112)	55	288233	20.0000	19.826	80.00- 120.00	100.00
9.579	9.579 (1.112)	98	111377			9.22- 69.22	38.64
9.579	9.579 (1.112)	42	205722			42.60- 102.60	71.37
$ 170 4-Bromofluorobenzene					CAS #: 460-00-4		
9.600	9.601 (1.115)	174	601735	25.0000	25.130	80.00- 120.00	100.00
9.600	9.601 (1.115)	95	749593			93.06- 153.06	124.57
9.600	9.601 (1.115)	176	564236			62.87- 122.87	93.77
175 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
9.737	9.737 (1.131)	83	471108	20.0000	20.568	80.00- 120.00	100.00
9.737	9.737 (1.131)	85	302417			34.35- 94.35	64.19
177 Bromobenzene					CAS #: 108-86-1		
9.729	9.729 (1.130)	156	305636	20.0000	21.282	80.00- 120.00	100.00
9.729	9.737 (1.130)	158	293703			67.29- 127.29	96.10
9.729	9.729 (1.130)	77	498110			132.41- 192.41	162.97
178 Propylbenzene					CAS #: 103-65-1		
9.758	9.758 (1.133)	91	1151787	20.0000	21.368	80.00- 120.00	100.00
9.758	9.758 (1.133)	120	273172			0.00- 53.77	23.72
9.758	9.758 (1.133)	105	43998			0.00- 33.81	3.82
179 1,2,3-Trichloropropane					CAS #: 96-18-4		
9.787	9.787 (1.136)	110	143818	20.0000	20.844	80.00- 120.00	100.00
9.787	9.787 (1.136)	75	453627			285.00- 345.00	315.42
9.787	9.787 (1.136)	61	122921			54.06- 114.06	85.47
181 trans-1,4-Dichloro-2-butene					CAS #: 110-57-6		
9.787	9.787 (1.136)	53	112999	20.0000	20.697	80.00- 120.00	100.00
9.787	9.787 (1.136)	89	48773			21.19- 81.19	43.16
9.787	9.787 (1.136)	75	453627			372.45- 432.45	401.44
182 Decane					CAS #: 124-18-5		
9.808	9.808 (1.139)	57	600354	20.0000	21.540	80.00- 120.00	100.00
9.808	9.808 (1.139)	71	205326			4.13- 64.13	34.20
9.808	9.815 (1.139)	142	27594			0.00- 34.73	4.60
183 4-Ethyltoluene					CAS #: 622-96-8		
9.851	9.851 (1.144)	120	293774	20.0000	21.026	80.00- 120.00	100.00

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
183 4-Ethyltoluene (continued)							
9.851	9.851 (1.144)	105	962719			296.79- 356.79	327.71
184 2-Chlorotoluene					CAS #: 95-49-8		
9.873	9.873 (1.146)	126	241975	20.0000	21.314	80.00- 120.00	100.00
9.873	9.873 (1.146)	91	875996			336.29- 396.29	362.02
9.873	9.873 (1.146)	65	119876			38.83- 98.83	49.54
185 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
9.901	9.901 (1.150)	120	406512	20.0000	20.714	80.00- 120.00	100.00
9.901	9.901 (1.150)	105	838492			176.40- 236.40	206.27
188 alpha Methyl Styrene					CAS #: 98-83-9		
10.102	10.102 (1.173)	118	429983	20.0000	21.393	80.00- 120.00	100.00
10.102	10.102 (1.173)	103	242282			26.64- 86.64	56.35
189 tert-Butylbenzene					CAS #: 98-06-6		
10.166	10.174 (1.180)	119	779597	20.0000	21.591	80.00- 120.00	100.00
10.166	10.174 (1.180)	134	188686			0.00- 54.82	24.20
10.166	10.174 (1.180)	91	525911			36.92- 96.92	67.46
190 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
10.224	10.224 (1.187)	105	810102	20.0000	20.934	80.00- 120.00	100.00
10.224	10.224 (1.187)	120	374725			16.58- 76.58	46.26
192 sec-Butylbenzene					CAS #: 135-98-8		
10.360	10.360 (1.203)	134	244206	20.0000	20.939	80.00- 120.00	100.00
10.353	10.360 (1.202)	105	1180941			451.53- 511.53	483.58
10.353	10.353 (1.202)	91	188846			46.48- 106.48	77.33
194 p-Cymene					CAS #: 99-87-6		
10.467	10.467 (1.215)	119	1040383	20.0000	21.301	80.00- 120.00	100.00
10.467	10.467 (1.215)	134	273377			0.00- 56.79	26.28
10.467	10.467 (1.215)	91	250444			0.00- 54.04	24.07
195 1,3-Dichlorobenzene					CAS #: 541-73-1		
10.517	10.517 (1.221)	146	555180	20.0000	21.117	80.00- 120.00	100.00
10.517	10.517 (1.221)	148	354339			33.53- 93.53	63.82
10.517	10.517 (1.221)	111	229208			11.05- 71.05	41.29
196 1,4-Dichlorobenzene					CAS #: 106-46-7		
10.596	10.596 (1.230)	146	564376	20.0000	20.841	80.00- 120.00	100.00
10.596	10.596 (1.230)	148	358009			33.47- 93.47	63.43
10.596	10.596 (1.230)	111	223496			9.65- 69.65	39.60
199 alpha-Chlorotoluene					CAS #: 100-44-7		
10.711	10.711 (1.244)	91	784223	20.0000	21.062	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
199 alpha-Chlorotoluene (continued)							
10.711	10.711 (1.244)	126	173331			0.00- 52.04	22.10
201 Undecane					CAS #: 1120-21-4		
10.804	10.804 (1.254)	57	693926	20.0000	21.128	80.00- 120.00	100.00
10.804	10.804 (1.254)	43	599450			55.86- 115.86	86.39
202 Butylbenzene					CAS #: 104-51-8		
10.818	10.818 (1.256)	134	264258	20.0000	20.867	80.00- 120.00	100.00
10.818	10.818 (1.256)	91	975496			331.99- 391.99	369.15
10.818	10.818 (1.256)	92	511283			161.01- 221.01	193.48
204 1,2-Dichlorobenzene					CAS #: 95-50-1		
10.918	10.926 (1.268)	146	537905	20.0000	21.173	80.00- 120.00	100.00
10.918	10.926 (1.268)	148	339671			33.23- 93.23	63.15
10.918	10.918 (1.268)	111	228348			12.36- 72.36	42.45
206 1,2-Dibromo-3-chloropropane					CAS #: 96-12-8		
11.606	11.606 (1.348)	157	312823	20.0000	21.235	80.00- 120.00	100.00
11.599	11.599 (1.347)	75	277182			58.96- 118.96	88.61
11.606	11.606 (1.348)	155	243263			47.82- 107.82	77.76
207 Dodecane					CAS #: 112-40-3		
11.714	11.714 (1.360)	57	692267	24.7200	24.926	80.00- 120.00	100.00
11.714	11.714 (1.360)	43	562156			50.85- 110.85	81.21
213 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
12.301	12.301 (1.428)	180	465565	25.1800	25.800	80.00- 120.00	100.00
12.301	12.301 (1.428)	182	448092			65.40- 125.40	96.25
215 Hexachlorobutadiene					CAS #: 87-68-3		
12.387	12.387 (1.438)	225	368056	25.7400	27.002	80.00- 120.00	100.00
12.387	12.387 (1.438)	223	232220			33.70- 93.70	63.09
216 Naphthalene					CAS #: 91-20-3		
12.552	12.552 (1.457)	128	122845	2.54000	2.229	80.00- 120.00	100.00
12.552	12.552 (1.457)	127	15728			0.00- 43.10	12.80
222 1,2,3-Trichlorobenzene					CAS #: 87-61-6		
12.802	12.802 (1.487)	180	443444	26.6200	26.855	80.00- 120.00	100.00
12.802	12.802 (1.487)	182	422798			65.67- 125.67	95.34
12.802	12.802 (1.487)	145	159126			6.02- 66.02	35.88

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd3.i
Lab File ID: 3062220.d
Lab Smp Id: ICAL Level 8
Analysis Type: VOA
Quant Type: ISTD
Operator: LD
Method File: /chem/msd3.i/22JUN21.b/321q0622a.m
Misc Info: 20ppbv (200ppbv)

Calibration Date: 22-JUN-2021
Calibration Time: 23:12
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	243405	146043	340767	263723	8.35
108 1,4-Difluorobenze	874076	524446	1223706	955496	9.31
153 Chlorobenzene-d5	831223	498734	1163712	905256	8.91

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.28	4.95	5.61	5.27	-0.27
108 1,4-Difluorobenze	6.18	5.85	6.51	6.17	-0.23
153 Chlorobenzene-d5	8.62	8.29	8.95	8.61	-0.08

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msd3.i/22JUN21.b/3062220.d

Date : 22-JUN-2021 22:44

Client ID:

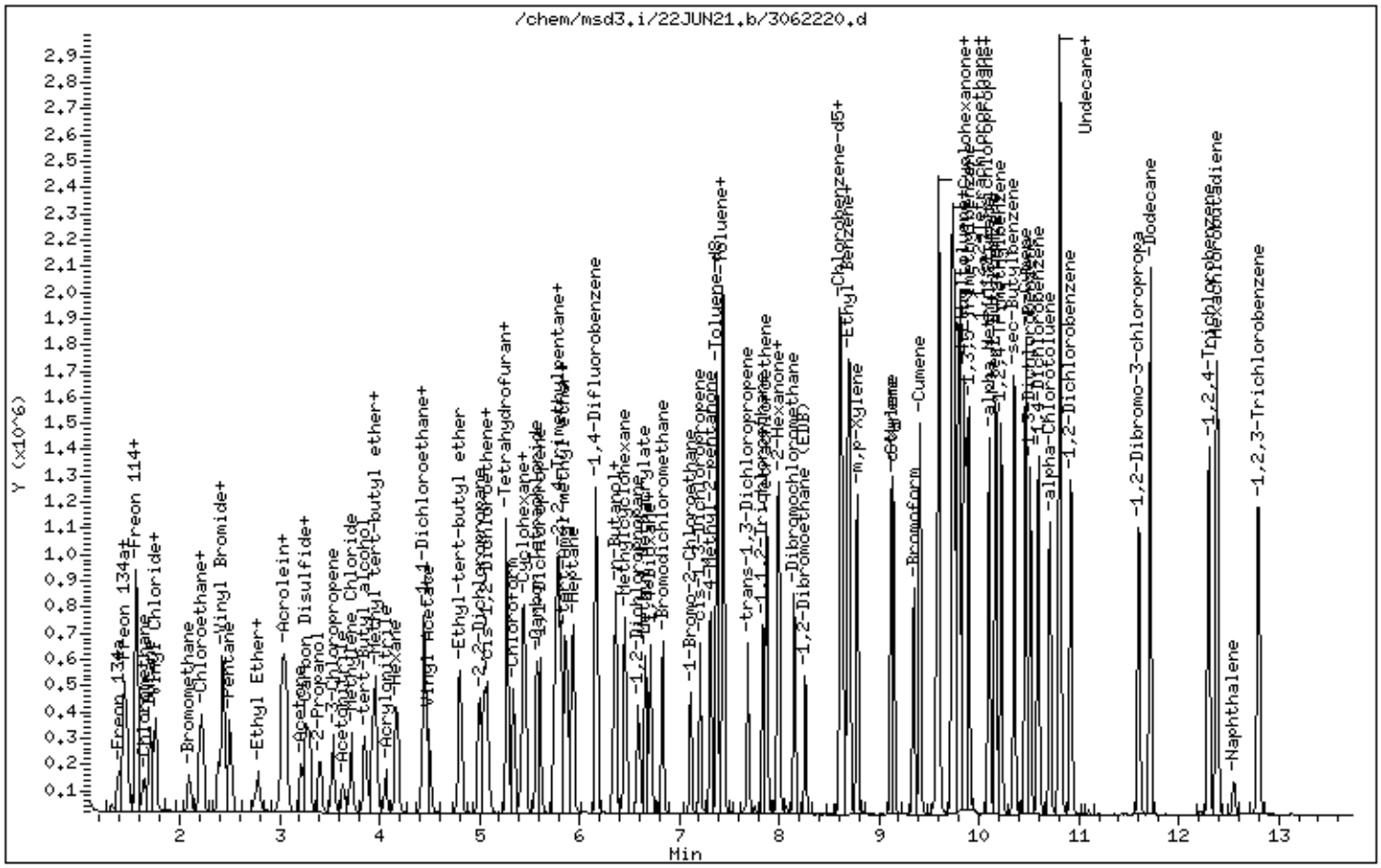
Instrument: msd3.i

Sample Info: 20mL 3018-2115

Operator: LD

Column phase: RTX-624

Column diameter: 0.25



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EPA TO-15/MODIFIED TO14A

Data file : /chem/msd3.i/22JUN21.b/3062210.d
Lab Smp Id: ICAL Level 9
Inj Date : 22-JUN-2021 18:07
Operator : LD Inst ID: msd3.i
Smp Info : 50mL 3018-2013
Misc Info : 50ppbv (200ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msd3.i/22JUN21.b/321q0622a.m
Meth Date : 23-Jun-2021 11:20 lk8g Quant Type: ISTD
Cal Date : 22-JUN-2021 23:12 Cal File: 3062221.d
Als bottle: 5 Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT20spICAL.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 90 Bromochloromethane					CAS #: 74-97-5		
5.284	5.284 (1.000)	130	240505	25.0000		80.00- 120.00	100.00
5.284	5.284 (1.000)	128	188690			48.46- 108.46	78.46
5.284	5.284 (1.000)	49	361684			120.39- 180.39	150.39
* 108 1,4-Difluorobenzene					CAS #: 540-36-3		
6.180	6.180 (1.000)	114	875857	25.0000		80.00- 120.00	100.00
6.180	6.180 (1.000)	88	135961			0.00- 45.52	15.52
* 153 Chlorobenzene-d5					CAS #: 3114-55-4		
8.619	8.619 (1.000)	117	827590	25.0000		80.00- 120.00	100.00
8.619	8.619 (1.000)	82	458953			25.46- 85.46	55.46
3 Freon 143a					CAS #: 420-46-2		
1.353	1.353 (0.256)	65	203130	50.0000	50.491	80.00- 120.00	100.00
1.353	1.353 (0.256)	69	501917			217.09- 277.09	247.09
1.353	1.353 (0.256)	64	52555			0.00- 55.87	25.87
6 Propane					CAS #: 74-98-6		
1.422	1.422 (0.269)	43	108458	50.0000	49.485	80.00- 120.00	100.00

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
6 Propane (continued)							
1.422	1.422 (0.269)	39	77673			41.62- 101.62	71.62
1.422	1.422 (0.269)	41	57452			22.97- 82.97	52.97
13 Freon 142b					CAS #: 75-68-3		
1.604	1.604 (0.304)	65	649549	50.0000	50.772	80.00- 120.00	100.00
1.604	1.604 (0.304)	45	182976			0.00- 58.17	28.17
36 1-Pentene					CAS #: 109-67-1		
2.444	2.444 (0.462)	55	411503	50.0000	50.649	80.00- 120.00	100.00
2.444	2.444 (0.462)	42	531533			99.17- 159.17	129.17
40 Freon 123a					CAS #: 354-23-4		
2.878	2.878 (0.545)	117	479957	50.0000	50.732	80.00- 120.00	100.00
2.878	2.878 (0.545)	67	638983			103.13- 163.13	133.13
41 Freon 123					CAS #: 306-83-2		
2.976	2.976 (0.563)	83	698523	50.0000	50.342	80.00- 120.00	100.00
2.976	2.976 (0.563)	133	152375			0.00- 51.81	21.81
2.976	2.976 (0.563)	85	468904			37.13- 97.13	67.13
55 Cyclopentene					CAS #: 142-29-0		
3.549	3.549 (0.672)	67	747040	50.0000	50.579	80.00- 120.00	100.00
3.549	3.549 (0.672)	68	283092			7.90- 67.90	37.90
3.549	3.549 (0.672)	53	185808			0.00- 54.87	24.87
56 Methyl Acetate					CAS #: 79-20-9		
3.577	3.577 (0.677)	43	753266	50.0000	49.488	80.00- 120.00	100.00
3.577	3.577 (0.677)	74	129155			0.00- 47.15	17.15
74 Chloroprene					CAS #: 126-99-8		
4.515	4.515 (0.854)	53	659922	50.0000	51.199	80.00- 120.00	100.00
4.515	4.515 (0.854)	88	279320			12.33- 72.33	42.33
4.515	4.515 (0.854)	50	182245			0.00- 57.62	27.62
75 1-Propanol					CAS #: 71-23-8		
4.613	4.613 (0.873)	59	90362	50.0000	45.347	80.00- 120.00	100.00
4.613	4.613 (0.873)	42	75804			53.89- 113.89	83.89
4.613	4.613 (0.873)	41	48874			24.09- 84.09	54.09
88 Methyl Acrylate					CAS #: 96-33-3		
5.130	5.130 (0.971)	55	775548	50.0000	50.066	80.00- 120.00	100.00
5.130	5.130 (0.971)	85	102700			0.00- 43.24	13.24
5.130	5.130 (0.971)	58	68476			0.00- 38.83	8.83
103 Isobutanol					CAS #: 78-83-1		
5.774	5.774 (1.093)	39	109438	50.0000	38.444	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
103 Isobutanol (continued)							
5.774	5.774 (1.093)	43	391444			327.69- 387.69	357.69
5.774	5.774 (1.093)	41	292812			237.56- 297.56	267.56
113 Ethyl acrylate					CAS #: 140-88-5		
6.474	6.474 (0.751)	99	61569	50.0000	46.554	80.00- 120.00	100.00
6.460	6.460 (0.749)	45	95230			124.67- 184.67	154.67
6.460	6.460 (0.749)	55	1004376			1601.30-1661.30	1631.30
115 2-Pentanone					CAS #: 107-87-9		
6.557	6.557 (0.761)	43	1482803	50.0000	47.934	80.00- 120.00	100.00
6.557	6.557 (0.761)	58	107563			0.00- 37.25	7.25
6.557	6.557 (0.761)	86	223633			0.00- 45.08	15.08
145 Butyl Acetate					CAS #: 123-86-4		
8.068	8.068 (1.305)	56	539276	50.0000	46.707	80.00- 120.00	100.00
8.068	8.068 (1.305)	73	189604			5.16- 65.16	35.16
8.068	8.068 (1.305)	43	1315845			214.00- 274.00	244.00
157 1,1,1,2-Tetrachloroethane					CAS #: 630-20-6		
8.712	8.712 (1.011)	131	614036	50.0000	49.326	80.00- 120.00	100.00
8.712	8.712 (1.011)	117	418914			38.22- 98.22	68.22
8.712	8.712 (1.011)	95	230491			7.54- 67.54	37.54
166 2-Heptanone					CAS #: 110-43-0		
9.221	9.221 (1.745)	58	831136	50.0000	47.079	80.00- 120.00	100.00
9.221	9.221 (1.745)	43	1357775			133.36- 193.36	163.36
172 D-Limonene					CAS #: 5989-27-5		
10.417	10.417 (1.209)	68	785422	50.0000	52.236	80.00- 120.00	100.00
10.424	10.424 (1.209)	93	566139			42.08- 102.08	72.08
186 4-Chlorotoluene					CAS #: 106-43-4		
9.973	9.973 (1.157)	126	539265	50.0000	49.765	80.00- 120.00	100.00
9.966	9.966 (1.156)	91	1811592			305.94- 365.94	335.94
9.966	9.966 (1.156)	63	245019			15.44- 75.44	45.44
197 1,2,3-Trimethylbenzene					CAS #: 526-73-8		
10.596	10.596 (1.229)	120	740798	50.0000	49.872	80.00- 120.00	100.00
10.596	10.596 (1.229)	105	1751480			206.43- 266.43	236.43
10.596	10.596 (1.229)	77	209551			0.00- 58.29	28.29
205 Hexachloroethane					CAS #: 67-72-1		
11.098	11.098 (1.288)	201	475431	50.0000	52.429	80.00- 120.00	100.00
11.098	11.098 (1.288)	117	664512			109.77- 169.77	139.77

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
208 1,3,5-Trichlorobenzene					CAS #: 108-70-3		
11.728	11.728 (1.361)	180	962027	50.0000	48.656	80.00- 120.00	100.00
11.728	11.728 (1.361)	182	921537			65.79- 125.79	95.79
210 alpha-Pinene					CAS #: 80-56-8		
9.371	9.371 (1.087)	93	1284627	50.0000	50.199	80.00- 120.00	100.00
9.371	9.371 (1.087)	77	387101			0.13- 60.13	30.13
214 beta-Pinene					CAS #: 127-91-3		
9.944	9.944 (1.154)	93	1029595	50.0000	51.233	80.00- 120.00	100.00
9.966	9.966 (1.156)	91	1811592			145.95- 205.95	175.95

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd3.i
Lab File ID: 3062210.d
Lab Smp Id: ICAL Level 9
Analysis Type: VOA
Quant Type: ISTD
Operator: LD
Method File: /chem/msd3.i/22JUN21.b/321q0622a.m
Misc Info: 50ppbv (200ppbv)

Calibration Date: 22-JUN-2021
Calibration Time: 18:07
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	240505	144303	336707	240505	0.00
108 1,4-Difluorobenze	875857	525514	1226200	875857	0.00
153 Chlorobenzene-d5	827590	496554	1158626	827590	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.28	4.95	5.61	5.28	0.00
108 1,4-Difluorobenze	6.18	5.85	6.51	6.18	0.00
153 Chlorobenzene-d5	8.62	8.29	8.95	8.62	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msd3.i/22JUN21.b/3062210.d

Date : 22-JUN-2021 18:07

Client ID:

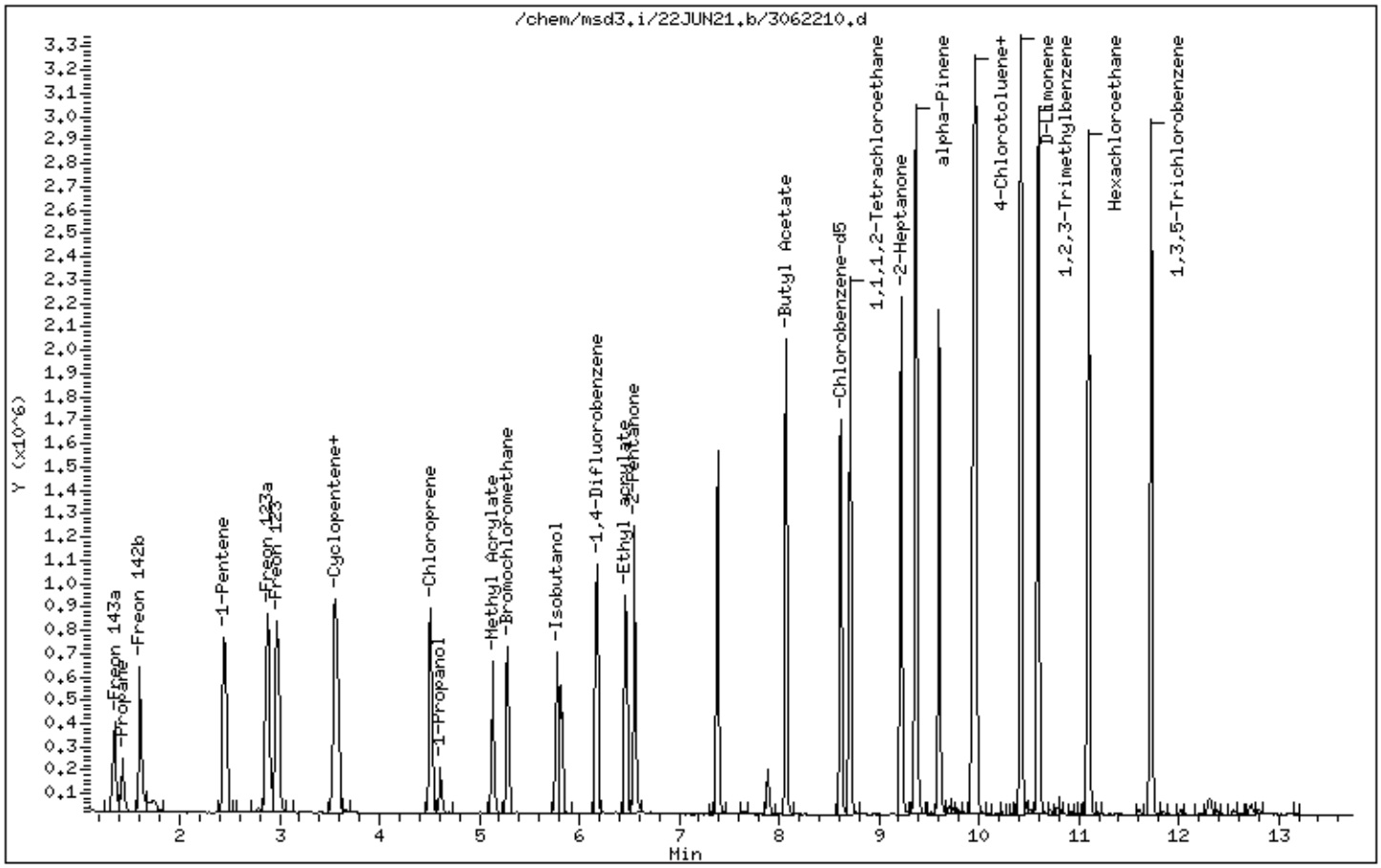
Instrument: msd3.i

Sample Info: 50mL 3018-2013

Operator: LD

Column phase: RTX-624

Column diameter: 0.25



US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msd3.i/22JUN21.b/3062221.d
Lab Smp Id: ICAL Level 9
Inj Date : 22-JUN-2021 23:12
Operator : LD Inst ID: msd3.i
Smp Info : 50mL 3018-2115
Misc Info : 50ppbv (200ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msd3.i/22JUN21.b/321q0622a.m
Meth Date : 23-Jun-2021 12:22 lk8g Quant Type: ISTD
Cal Date : 22-JUN-2021 23:12 Cal File: 3062221.d
Als bottle: 2 Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT20ICAL.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
4 Freon 134a					CAS #: 811-97-2		
1.395	1.395 (0.264)	83	284157	50.0000	49.062	80.00- 120.00	100.00
1.395	1.395 (0.264)	69	232500			51.82- 111.82	81.82
1.479	1.479 (0.280)	51	639099			194.91- 254.91	224.91
5 Propylene					CAS #: 115-07-1		
1.423	1.423 (0.269)	41	294407	50.0000	50.075	80.00- 120.00	100.00
1.423	1.423 (0.269)	42	193171			35.61- 95.61	65.61
1.423	1.423 (0.269)	39	213929			42.66- 102.66	72.66
7 1,1-Difluoroethane					CAS #: 75-37-6		
1.437	1.437 (0.272)	65	181633	50.0000	47.393	80.00- 120.00	100.00
1.479	1.479 (0.280)	51	639099			321.86- 381.86	351.86
1.437	1.437 (0.272)	47	136835			45.34- 105.34	75.34
8 Freon 12					CAS #: 75-71-8		
1.465	1.465 (0.277)	85	797137	50.0000	47.012	80.00- 120.00	100.00
1.465	1.465 (0.277)	87	260143			2.63- 62.63	32.63
9 Chlorodifluoromethane					CAS #: 75-45-6		
1.479	1.479 (0.280)	67	85241	50.0000	45.742	80.00- 120.00	100.00

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
9 Chlorodifluoromethane (continued)							
1.479	1.479 (0.280)	51	639099			719.76- 779.76	749.76
10 Freon 114					CAS #: 76-14-2		
1.562	1.562 (0.296)	135	606702	50.0000	48.290	80.00- 120.00	100.00
1.562	1.562 (0.296)	137	194861			2.12- 62.12	32.12
12 Isobutane					CAS #: 75-28-5		
1.576	1.576 (0.298)	43	657014	50.0000	49.719	80.00- 120.00	100.00
1.576	1.576 (0.298)	42	213159			2.44- 62.44	32.44
1.576	1.576 (0.298)	58	21428			0.00- 33.26	3.26
15 Chloromethane					CAS #: 74-87-3		
1.646	1.646 (0.312)	50	352835	50.0000	50.066	80.00- 120.00	100.00
1.646	1.646 (0.312)	52	114369			2.41- 62.41	32.41
18 Butane					CAS #: 106-97-8		
1.702	1.702 (0.322)	58	74284	50.0000	44.633	80.00- 120.00	100.00
1.702	1.702 (0.322)	43	562632			727.41- 787.41	757.41
19 Vinyl Chloride					CAS #: 75-01-4		
1.744	1.744 (0.330)	62	335767	50.0000	44.523	80.00- 120.00	100.00
1.744	1.744 (0.330)	64	105035			1.28- 61.28	31.28
20 1,3-Butadiene					CAS #: 106-99-0		
1.758	1.758 (0.333)	54	294521	50.0000	42.614	80.00- 120.00	100.00
1.758	1.758 (0.333)	39	292262			69.23- 129.23	99.23
24 Bromomethane					CAS #: 74-83-9		
2.094	2.094 (0.396)	94	277582	50.0000	46.540	80.00- 120.00	100.00
2.094	2.094 (0.396)	96	257551			62.78- 122.78	92.78
30 Chloroethane					CAS #: 75-00-3		
2.206	2.206 (0.417)	64	173670	50.0000	49.058	80.00- 120.00	100.00
2.206	2.206 (0.417)	66	54600			1.44- 61.44	31.44
2.206	2.206 (0.417)	49	59249			4.12- 64.12	34.12
31 Isopentane					CAS #: 78-78-4		
2.220	2.220 (0.420)	43	441673	50.0000	48.789	80.00- 120.00	100.00
2.220	2.220 (0.420)	57	303981			38.82- 98.82	68.82
32 Vinyl Bromide					CAS #: 593-60-2		
2.388	2.388 (0.452)	106	316129	50.0000	48.750	80.00- 120.00	100.00
2.388	2.388 (0.452)	108	294456			63.14- 123.14	93.14
33 Freon 11					CAS #: 75-69-4		
2.430	2.430 (0.460)	101	860106	50.0000	47.943	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
33 Freon 11 (continued)							
2.430	2.430 (0.460)	103	560066			35.12- 95.12	65.12
34 Dichlorofluoromethane					CAS #: 75-43-4		
2.444	2.444 (0.462)	67	711822	50.0000	49.634	80.00- 120.00	100.00
2.444	2.444 (0.462)	69	218791			0.74- 60.74	30.74
35 Pentane					CAS #: 109-66-0		
2.500	2.500 (0.473)	43	708333	50.0000	49.112	80.00- 120.00	100.00
2.500	2.500 (0.473)	57	113101			0.00- 45.97	15.97
2.500	2.500 (0.473)	72	57350			0.00- 38.10	8.10
38 Ethyl Ether					CAS #: 60-29-7		
2.780	2.780 (0.526)	74	150840	50.0000	46.646	80.00- 120.00	100.00
2.780	2.780 (0.526)	59	268008			147.68- 207.68	177.68
2.780	2.780 (0.526)	45	356586			206.40- 266.40	236.40
39 Ethanol					CAS #: 64-17-5		
2.766	2.766 (0.523)	46	64405	50.0000	44.377	80.00- 120.00	100.00
2.780	2.780 (0.526)	45	356168			523.01- 583.01	553.01
42 Acrolein					CAS #: 107-02-8		
3.032	3.032 (0.574)	55	120208	50.0000	49.911	80.00- 120.00	100.00
3.032	3.032 (0.574)	56	168682			110.33- 170.33	140.33
43 Freon 113					CAS #: 76-13-1		
3.032	3.032 (0.574)	151	580955	50.0000	47.370	80.00- 120.00	100.00
3.032	3.032 (0.574)	153	370172			33.72- 93.72	63.72
3.032	3.032 (0.574)	101	695257			89.67- 149.67	119.67
44 1,1-Dichloroethene					CAS #: 75-35-4		
3.074	3.074 (0.582)	96	328546	50.0000	44.476	80.00- 120.00	100.00
3.074	3.074 (0.582)	98	208255			33.39- 93.39	63.39
3.074	3.074 (0.582)	61	636783			163.82- 223.82	193.82
47 Acetone					CAS #: 67-64-1		
3.213	3.213 (0.608)	58	192966	50.0000	47.280	80.00- 120.00	100.00
3.213	3.213 (0.608)	43	636127			299.66- 359.66	329.66
48 Carbon Disulfide					CAS #: 75-15-0		
3.297	3.297 (0.624)	76	899750	50.0000	48.956	80.00- 120.00	100.00
49 Iodomethane					CAS #: 74-88-4		
3.269	3.269 (0.619)	142	873195	50.0000	54.944	80.00- 120.00	100.00
3.269	3.269 (0.619)	127	389245			14.58- 74.58	44.58

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
52 2-Propanol					CAS #: 67-63-0		
3.395	3.395 (0.643)	45	741880	50.0000	50.543	80.00- 120.00	100.00
3.395	3.395 (0.643)	43	138075			0.00- 48.61	18.61
54 3-Chloropropene					CAS #: 107-05-1		
3.535	3.535 (0.669)	76	145295	50.0000	45.918	80.00- 120.00	100.00
3.535	3.535 (0.669)	41	534774			338.06- 398.06	368.06
57 Acetonitrile					CAS #: 75-05-8		
3.633	3.633 (0.688)	41	319360	50.0000	49.691	80.00- 120.00	100.00
3.633	3.633 (0.688)	40	165465			21.81- 81.81	51.81
3.633	3.633 (0.688)	38	37890			0.00- 41.86	11.86
59 Methylene Chloride					CAS #: 75-09-2		
3.717	3.717 (0.703)	49	472054	50.0000	48.327	80.00- 120.00	100.00
3.717	3.717 (0.703)	84	286866			30.77- 90.77	60.77
3.717	3.717 (0.703)	51	148173			1.39- 61.39	31.39
62 tert-Butyl alcohol					CAS #: 75-65-0		
3.857	3.857 (0.730)	59	904991	50.0000	49.121	80.00- 120.00	100.00
3.857	3.857 (0.730)	41	190462			0.00- 51.05	21.05
3.857	3.857 (0.730)	57	105718			0.00- 41.68	11.68
63 Methyl tert-butyl ether					CAS #: 1634-04-4		
3.941	3.941 (0.746)	73	952511	50.0000	47.900	80.00- 120.00	100.00
3.941	3.941 (0.746)	57	274918			0.00- 58.86	28.86
3.941	3.941 (0.746)	41	259771			0.00- 57.27	27.27
64 trans-1,2-Dichloroethene					CAS #: 156-60-5		
3.969	3.969 (0.751)	98	214998	50.0000	43.249	80.00- 120.00	100.00
3.969	3.969 (0.751)	61	590364			244.59- 304.59	274.59
3.969	3.969 (0.751)	96	343649			129.84- 189.84	159.84
66 Acrylonitrile					CAS #: 107-13-1		
4.067	4.067 (0.770)	52	256275	50.0000	42.956	80.00- 120.00	100.00
4.067	4.067 (0.770)	53	303684			88.50- 148.50	118.50
67 Hexane					CAS #: 110-54-3		
4.179	4.179 (0.791)	57	648110	50.0000	48.083	80.00- 120.00	100.00
4.179	4.179 (0.791)	43	408223			32.99- 92.99	62.99
4.179	4.179 (0.791)	86	81408			0.00- 42.56	12.56
71 1,1-Dichloroethane					CAS #: 75-34-3		
4.459	4.459 (0.844)	63	655941	50.0000	47.320	80.00- 120.00	100.00
4.459	4.459 (0.844)	65	201779			0.76- 60.76	30.76

				AMOUNTS				
					CAL-AMT	ON-COL		
	RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
	72 Isopropyl ether					CAS #: 108-20-3		
	4.445	4.445 (0.841)	45	1410302	50.0000	49.578	80.00- 120.00	100.00
	4.445	4.445 (0.841)	87	301331			0.00- 51.37	21.37
	4.445	4.445 (0.841)	59	156455			0.00- 41.09	11.09
	73 Vinyl Acetate					CAS #: 108-05-4		
	4.501	4.501 (0.852)	86	84268	50.0000	49.446	80.00- 120.00	100.00
	4.501	4.501 (0.852)	43	1197978			1391.63-1451.63	1421.63
	79 Ethyl-tert-butyl ether					CAS #: 637-92-3		
	4.809	4.809 (0.910)	59	1352357	50.0000	49.244	80.00- 120.00	100.00
	4.809	4.809 (0.910)	87	449268			3.22- 63.22	33.22
	4.809	4.809 (0.910)	41	245055			0.00- 48.12	18.12
	84 2,2-Dichloropropane					CAS #: 594-20-7		
	5.004	5.004 (0.947)	77	634214	50.0000	49.112	80.00- 120.00	100.00
	5.004	5.004 (0.947)	79	202924			2.00- 62.00	32.00
	5.004	5.004 (0.947)	97	148175			0.00- 53.36	23.36
	85 cis-1,2-Dichloroethene					CAS #: 156-59-2		
	5.046	5.046 (0.955)	98	220341	50.0000	44.714	80.00- 120.00	100.00
	5.046	5.046 (0.955)	96	346411			127.22- 187.22	157.22
	5.046	5.046 (0.955)	61	691531			283.85- 343.85	313.85
	86 2-Butanone					CAS #: 78-93-3		
	5.074	5.074 (0.960)	72	166176	50.0000	48.279	80.00- 120.00	100.00
	5.074	5.074 (0.960)	43	1804252			1055.75-1115.75	1085.75
	5.074	5.074 (0.960)	57	67453			10.59- 70.59	40.59
	87 Ethyl Acetate					CAS #: 141-78-6		
	5.088	5.088 (0.963)	45	143976	50.0000	50.739	80.00- 120.00	100.00
	5.046	5.046 (0.955)	61	691531			450.31- 510.31	480.31
	5.088	5.088 (0.963)	70	86986			30.42- 90.42	60.42
	89 Tetrahydrofuran					CAS #: 109-99-9		
	5.270	5.270 (0.997)	42	468847	50.0000	48.304	80.00- 120.00	100.00
	5.270	5.270 (0.997)	71	154354			2.92- 62.92	32.92
	5.270	5.270 (0.997)	72	157262			3.54- 63.54	33.54
*	90 Bromochloromethane					CAS #: 74-97-5		
	5.284	5.284 (1.000)	130	243405	25.0000		80.00- 120.00	100.00
	5.284	5.284 (1.000)	128	187819			48.46- 108.46	77.16
	5.270	5.270 (1.000)	49	366478			120.39- 180.39	150.56
	92 Chloroform					CAS #: 67-66-3		
	5.340	5.340 (1.011)	83	722872	50.0000	47.368	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
92 Chloroform (continued)							
5.340	5.340 (1.011)	85	467764			34.71- 94.71	64.71
94 Cyclohexane					CAS #: 110-82-7		
5.438	5.438 (1.029)	84	446703	50.0000	46.309	80.00- 120.00	100.00
5.438	5.438 (1.029)	56	671853			120.40- 180.40	150.40
5.438	5.438 (1.029)	41	376139			54.20- 114.20	84.20
96 1,1,1-Trichloroethane					CAS #: 71-55-6		
5.466	5.466 (1.034)	97	775232	50.0000	45.194	80.00- 120.00	100.00
5.466	5.466 (1.034)	99	494293			33.76- 93.76	63.76
97 Carbon Tetrachloride					CAS #: 56-23-5		
5.578	5.578 (1.056)	119	786825	50.0000	49.803	80.00- 120.00	100.00
5.578	5.578 (1.056)	117	815784			73.68- 133.68	103.68
99 1,1-Dichloropropene					CAS #: 563-58-6		
5.606	5.606 (0.907)	110	196065	50.0000	49.289	80.00- 120.00	100.00
5.606	5.606 (0.907)	75	511915			231.09- 291.09	261.09
101 2,2,4-Trimethylpentane					CAS #: 540-84-1		
5.774	5.774 (1.093)	57	2070229	50.0000	49.114	80.00- 120.00	100.00
5.774	5.774 (1.093)	56	644269			1.12- 61.12	31.12
5.774	5.774 (1.093)	41	569117			0.00- 57.49	27.49
102 Benzene					CAS #: 71-43-2		
5.788	5.788 (0.937)	78	968752	50.0000	48.568	80.00- 120.00	100.00
5.788	5.788 (0.937)	77	230565			0.00- 53.80	23.80
$ 104 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
5.816	5.816 (1.101)	65	332625	25.0000	24.832	80.00- 120.00	100.00
5.816	5.816 (1.101)	67	171829			21.66- 81.66	51.66
105 tert-Amyl methyl ether					CAS #: 994-05-8		
5.858	5.858 (0.948)	87	263298	50.0000	49.507	80.00- 120.00	100.00
5.858	5.858 (0.948)	73	1040562			365.20- 425.20	395.20
5.858	5.858 (0.948)	55	319398			91.31- 151.31	121.31
106 1,2-Dichloroethane					CAS #: 107-06-2		
5.886	5.886 (0.952)	62	550376	50.0000	47.927	80.00- 120.00	100.00
5.886	5.886 (0.952)	64	171716			1.20- 61.20	31.20
107 Heptane					CAS #: 142-82-5		
5.942	5.942 (0.962)	71	363489	50.0000	46.267	80.00- 120.00	100.00
5.942	5.942 (0.962)	43	759758			179.02- 239.02	209.02
5.942	5.942 (0.962)	57	417473			84.85- 144.85	114.85

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
* 108 1,4-Difluorobenzene					CAS #: 540-36-3		
6.180	6.180 (1.000)	114	874076	25.0000		80.00- 120.00	100.00
6.180	6.180 (1.000)	88	137446			0.00- 45.52	15.72
110 n-Butanol					CAS #: 71-36-3		
6.348	6.348 (1.027)	56	318843	50.0000	49.871	80.00- 120.00	100.00
6.348	6.348 (1.027)	41	223844			40.21- 100.21	70.21
6.348	6.348 (1.027)	43	175356			25.00- 85.00	55.00
111 Trichloroethene					CAS #: 79-01-6		
6.362	6.362 (1.029)	95	480894	50.0000	48.058	80.00- 120.00	100.00
6.362	6.362 (1.029)	130	504760			74.96- 134.96	104.96
6.362	6.362 (1.029)	97	311621			34.80- 94.80	64.80
114 1,2-Dichloropropane					CAS #: 78-87-5		
6.586	6.586 (1.066)	63	160946	50.0000	34.810	80.00- 120.00	100.00
6.586	6.586 (1.066)	62	132017			52.03- 112.03	82.03
6.586	6.586 (1.066)	41	176994			79.97- 139.97	109.97
116 Methyl Methacrylate					CAS #: 80-62-6		
6.664	6.664 (0.773)	69	380639	50.0000	47.582	80.00- 120.00	100.00
6.664	6.664 (0.773)	41	624336			134.02- 194.02	164.02
6.664	6.664 (0.773)	100	150491			9.54- 69.54	39.54
117 1,4-Dioxane					CAS #: 123-91-1		
6.699	6.699 (1.084)	88	246677	50.0000	48.820	80.00- 120.00	100.00
6.699	6.699 (1.084)	58	211647			55.80- 115.80	85.80
6.699	6.699 (1.084)	57	95411			8.68- 68.68	38.68
118 Dibromomethane					CAS #: 74-95-3		
6.721	6.721 (0.780)	174	437437	50.0000	49.100	80.00- 120.00	100.00
6.721	6.721 (0.780)	93	425485			67.27- 127.27	97.27
6.721	6.721 (0.780)	95	353956			50.92- 110.92	80.92
122 Bromodichloromethane					CAS #: 75-27-4		
6.836	6.836 (1.106)	83	785560	50.0000	46.861	80.00- 120.00	100.00
6.836	6.836 (1.106)	85	505163			34.31- 94.31	64.31
126 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.208	7.208 (1.166)	75	622612	50.0000	49.970	80.00- 120.00	100.00
7.208	7.208 (1.166)	77	195644			1.42- 61.42	31.42
7.208	7.208 (1.166)	39	426887			38.56- 98.56	68.56
127 Methylcyclohexane					CAS #: 108-87-2		
6.460	6.460 (1.045)	83	621789	50.0000	46.468	80.00- 120.00	100.00
6.460	6.460 (1.045)	98	283551			15.60- 75.60	45.60

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
127 Methylcyclohexane (continued)							
6.460	6.460 (1.045)	55	674811			78.53- 138.53	108.53
131 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.316	7.316 (1.184)	58	397607	50.0000	46.931	80.00- 120.00	100.00
7.316	7.316 (1.184)	43	1038955			231.30- 291.30	261.30
7.316	7.316 (1.184)	85	154832			8.94- 68.94	38.94
$ 134 Toluene-d8					CAS #: 2037-26-5		
7.387	7.387 (1.195)	98	904005	25.0000	25.110	80.00- 120.00	100.00
7.387	7.387 (1.195)	70	103668			0.00- 41.47	11.47
7.387	7.387 (1.195)	100	600870			36.47- 96.47	66.47
137 Toluene					CAS #: 108-88-3		
7.437	7.437 (1.203)	91	1301803	50.0000	48.641	80.00- 120.00	100.00
7.437	7.437 (1.203)	92	758903			28.30- 88.30	58.30
136 Octane					CAS #: 111-65-9		
7.444	7.444 (1.205)	57	435525	50.0000	48.911	80.00- 120.00	100.00
7.444	7.444 (1.205)	85	422920			67.11- 127.11	97.11
7.444	7.444 (1.205)	43	1063600			214.21- 274.21	244.21
139 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
7.688	7.688 (0.892)	75	595888	50.0000	48.674	80.00- 120.00	100.00
7.688	7.688 (0.892)	77	191552			2.15- 62.15	32.15
7.688	7.688 (0.892)	39	393842			36.09- 96.09	66.09
141 1,1,2-Trichloroethane					CAS #: 79-00-5		
7.846	7.846 (0.910)	97	448705	50.0000	47.657	80.00- 120.00	100.00
7.846	7.846 (0.910)	99	276484			31.62- 91.62	61.62
7.846	7.846 (0.910)	83	387448			56.35- 116.35	86.35
142 Tetrachloroethene					CAS #: 127-18-4		
7.881	7.881 (0.914)	166	631135	50.0000	48.467	80.00- 120.00	100.00
7.881	7.881 (0.914)	129	496786			48.71- 108.71	78.71
7.881	7.881 (0.914)	131	483117			46.55- 106.55	76.55
143 2-Hexanone					CAS #: 591-78-6		
8.003	8.003 (0.929)	58	544103	50.0000	50.311	80.00- 120.00	100.00
8.003	8.003 (0.929)	43	1022398			157.91- 217.91	187.91
8.003	8.003 (0.929)	100	97172			0.00- 47.86	17.86
144 1,3-Dichloropropane					CAS #: 142-28-9		
7.989	7.989 (1.293)	76	617417	50.0000	48.352	80.00- 120.00	100.00
7.989	7.989 (1.293)	41	697427			82.96- 142.96	112.96
7.989	7.989 (1.293)	78	200948			2.55- 62.55	32.55

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
146 Dibromochloromethane						CAS #: 124-48-1	
8.154	8.154 (0.946)	129	891015	50.0000	49.884	80.00- 120.00	100.00
8.154	8.154 (0.946)	127	692953			47.77- 107.77	77.77
148 1,2-Dibromoethane (EDB)						CAS #: 106-93-4	
8.268	8.268 (0.959)	107	719507	50.0000	49.209	80.00- 120.00	100.00
8.268	8.268 (0.959)	109	680686			64.60- 124.60	94.60
151 1-Bromo-2-Chloroethane						CAS #: 107-04-0	
7.115	7.115 (1.151)	63	808634	50.0000	49.985	80.00- 120.00	100.00
7.115	7.115 (1.151)	65	250233			0.95- 60.95	30.95
7.122	7.122 (1.152)	144	84530			0.00- 40.45	10.45
* 153 Chlorobenzene-d5						CAS #: 3114-55-4	
8.619	8.619 (1.000)	117	831223	25.0000		80.00- 120.00	100.00
8.619	8.619 (1.000)	82	457929			25.46- 85.46	55.09
154 Chlorobenzene						CAS #: 108-90-7	
8.641	8.641 (1.002)	112	1085035	50.0000	47.761	80.00- 120.00	100.00
8.641	8.641 (1.002)	114	348609			2.13- 62.13	32.13
8.641	8.641 (1.002)	77	611405			26.35- 86.35	56.35
155 Ethyl Benzene						CAS #: 100-41-4	
8.684	8.684 (1.007)	106	556944	50.0000	49.027	80.00- 120.00	100.00
8.684	8.684 (1.007)	91	1740322			282.48- 342.48	312.48
156 Nonane						CAS #: 111-84-2	
8.705	8.705 (1.010)	43	1099456	50.0000	49.933	80.00- 120.00	100.00
8.705	8.705 (1.010)	57	984285			59.52- 119.52	89.52
8.705	8.705 (1.010)	85	327172			0.00- 59.76	29.76
158 m,p-Xylene						CAS #: 108-38-3	
8.784	8.784 (1.019)	106	692050	50.0000	48.968	80.00- 120.00	100.00
8.784	8.784 (1.019)	91	1393518			171.36- 231.36	201.36
164 o-Xylene						CAS #: 95-47-6	
9.128	9.128 (1.059)	106	659123	50.0000	49.127	80.00- 120.00	100.00
9.128	9.128 (1.059)	91	1384085			179.99- 239.99	209.99
165 Styrene						CAS #: 100-42-5	
9.149	9.149 (1.061)	104	1152063	50.0000	49.562	80.00- 120.00	100.00
9.149	9.149 (1.061)	78	565543			19.09- 79.09	49.09
167 Bromoform						CAS #: 75-25-2	
9.350	9.350 (1.085)	173	850814	50.0000	50.234	80.00- 120.00	100.00
9.350	9.350 (1.085)	171	437768			21.45- 81.45	51.45

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
168 Cumene					CAS #: 98-82-8		
9.414	9.414 (1.092)	105	2075717	50.0000	48.933	80.00- 120.00	100.00
9.414	9.414 (1.092)	120	560258			0.00- 56.99	26.99
9.407	9.407 (1.091)	51	244414			0.00- 41.77	11.77
169 Cyclohexanone					CAS #: 108-94-1		
9.579	9.579 (1.111)	55	617741	50.0000	46.276	80.00- 120.00	100.00
9.579	9.579 (1.111)	98	242258			9.22- 69.22	39.22
9.579	9.579 (1.111)	42	448465			42.60- 102.60	72.60
$ 170 4-Bromofluorobenzene					CAS #: 460-00-4		
9.601	9.601 (1.114)	174	555796	25.0000	25.279	80.00- 120.00	100.00
9.601	9.601 (1.114)	95	683945			93.06- 153.06	123.06
9.601	9.601 (1.114)	176	516176			62.87- 122.87	92.87
175 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
9.737	9.737 (1.130)	83	1003904	50.0000	47.734	80.00- 120.00	100.00
9.737	9.737 (1.130)	85	646042			34.35- 94.35	64.35
177 Bromobenzene					CAS #: 108-86-1		
9.729	9.729 (1.129)	156	652747	50.0000	49.500	80.00- 120.00	100.00
9.737	9.737 (1.130)	158	635065			67.29- 127.29	97.29
9.729	9.729 (1.129)	77	1060120			132.41- 192.41	162.41
178 Propylbenzene					CAS #: 103-65-1		
9.758	9.758 (1.132)	91	2451939	50.0000	49.539	80.00- 120.00	100.00
9.758	9.758 (1.132)	120	582723			0.00- 53.77	23.77
9.758	9.758 (1.132)	105	93517			0.00- 33.81	3.81
179 1,2,3-Trichloropropane					CAS #: 96-18-4		
9.787	9.787 (1.135)	110	309574	50.0000	48.865	80.00- 120.00	100.00
9.787	9.787 (1.135)	75	975160			285.00- 345.00	315.00
9.787	9.787 (1.135)	61	260223			54.06- 114.06	84.06
181 trans-1,4-Dichloro-2-butene					CAS #: 110-57-6		
9.787	9.787 (1.135)	53	242305	50.0000	48.334	80.00- 120.00	100.00
9.787	9.787 (1.135)	89	124031			21.19- 81.19	51.19
9.787	9.787 (1.135)	75	975160			372.45- 432.45	402.45
182 Decane					CAS #: 124-18-5		
9.808	9.808 (1.138)	57	1264280	50.0000	49.400	80.00- 120.00	100.00
9.808	9.808 (1.138)	71	431474			4.13- 64.13	34.13
9.815	9.815 (1.139)	142	59836			0.00- 34.73	4.73
183 4-Ethyltoluene					CAS #: 622-96-8		
9.851	9.851 (1.143)	120	625823	50.0000	48.780	80.00- 120.00	100.00

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
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183 4-Ethyltoluene (continued)							
9.851	9.851 (1.143)	105	2045098			296.79- 356.79	326.79
184 2-Chlorotoluene					CAS #: 95-49-8		
9.873	9.873 (1.145)	126	511437	50.0000	49.061	80.00- 120.00	100.00
9.873	9.873 (1.145)	91	1873358			336.29- 396.29	366.29
9.873	9.873 (1.145)	65	352019			38.83- 98.83	68.83
185 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
9.901	9.901 (1.149)	120	875517	50.0000	48.587	80.00- 120.00	100.00
9.901	9.901 (1.149)	105	1807106			176.40- 236.40	206.40
188 alpha Methyl Styrene					CAS #: 98-83-9		
10.102	10.102 (1.172)	118	929249	50.0000	50.352	80.00- 120.00	100.00
10.102	10.102 (1.172)	103	526312			26.64- 86.64	56.64
189 tert-Butylbenzene					CAS #: 98-06-6		
10.174	10.174 (1.180)	119	1661718	50.0000	50.120	80.00- 120.00	100.00
10.174	10.174 (1.180)	134	412478			0.00- 54.82	24.82
10.174	10.174 (1.180)	91	1112004			36.92- 96.92	66.92
190 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
10.224	10.224 (1.186)	105	1735479	50.0000	48.842	80.00- 120.00	100.00
10.224	10.224 (1.186)	120	808333			16.58- 76.58	46.58
192 sec-Butylbenzene					CAS #: 135-98-8		
10.360	10.360 (1.202)	134	528908	50.0000	49.389	80.00- 120.00	100.00
10.360	10.360 (1.202)	105	2546830			451.53- 511.53	481.53
10.353	10.353 (1.201)	91	404509			46.48- 106.48	76.48
194 p-Cymene					CAS #: 99-87-6		
10.467	10.467 (1.214)	119	2233043	50.0000	49.792	80.00- 120.00	100.00
10.467	10.467 (1.214)	134	598181			0.00- 56.79	26.79
10.467	10.467 (1.214)	91	536886			0.00- 54.04	24.04
195 1,3-Dichlorobenzene					CAS #: 541-73-1		
10.517	10.517 (1.220)	146	1210970	50.0000	50.163	80.00- 120.00	100.00
10.517	10.517 (1.220)	148	769344			33.53- 93.53	63.53
10.517	10.517 (1.220)	111	497099			11.05- 71.05	41.05
196 1,4-Dichlorobenzene					CAS #: 106-46-7		
10.596	10.596 (1.229)	146	1221365	50.0000	49.118	80.00- 120.00	100.00
10.596	10.596 (1.229)	148	775158			33.47- 93.47	63.47
10.596	10.596 (1.229)	111	484328			9.65- 69.65	39.65
199 alpha-Chlorotoluene					CAS #: 100-44-7		
10.711	10.711 (1.243)	91	1711464	50.0000	50.059	80.00- 120.00	100.00

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
199 alpha-Chlorotoluene (continued)							
10.711	10.711 (1.243)	126	377222			0.00- 52.04	22.04
201 Undecane					CAS #: 1120-21-4		
10.804	10.804 (1.253)	57	1502052	50.0000	49.806	80.00- 120.00	100.00
10.804	10.804 (1.253)	43	1289714			55.86- 115.86	85.86
202 Butylbenzene					CAS #: 104-51-8		
10.818	10.818 (1.255)	134	573948	50.0000	49.358	80.00- 120.00	100.00
10.818	10.818 (1.255)	91	2077626			331.99- 391.99	361.99
10.818	10.818 (1.255)	92	1096298			161.01- 221.01	191.01
204 1,2-Dichlorobenzene					CAS #: 95-50-1		
10.926	10.926 (1.268)	146	1161793	50.0000	49.802	80.00- 120.00	100.00
10.926	10.926 (1.268)	148	734569			33.23- 93.23	63.23
10.918	10.918 (1.267)	111	492079			12.36- 72.36	42.36
206 1,2-Dibromo-3-chloropropane					CAS #: 96-12-8		
11.606	11.606 (1.347)	157	677550	50.0000	50.091	80.00- 120.00	100.00
11.599	11.599 (1.346)	75	602730			58.96- 118.96	88.96
11.606	11.606 (1.347)	155	527267			47.82- 107.82	77.82
207 Dodecane					CAS #: 112-40-3		
11.714	11.714 (1.359)	57	1591448	61.8000	62.406	80.00- 120.00	100.00
11.714	11.714 (1.359)	43	1286745			50.85- 110.85	80.85
213 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
12.301	12.301 (1.427)	180	1043013	62.9500	62.948	80.00- 120.00	100.00
12.301	12.301 (1.427)	182	995018			65.40- 125.40	95.40
215 Hexachlorobutadiene					CAS #: 87-68-3		
12.387	12.387 (1.437)	225	804329	64.3500	64.263	80.00- 120.00	100.00
12.387	12.387 (1.437)	223	512377			33.70- 93.70	63.70
216 Naphthalene					CAS #: 91-20-3		
12.552	12.552 (1.456)	128	276806	6.35000	5.471	80.00- 120.00	100.00
12.552	12.552 (1.456)	127	36248			0.00- 43.10	13.10
222 1,2,3-Trichlorobenzene					CAS #: 87-61-6		
12.802	12.802 (1.485)	180	997150	66.5500	65.766	80.00- 120.00	100.00
12.802	12.802 (1.485)	182	953973			65.67- 125.67	95.67
12.802	12.802 (1.485)	145	359141			6.02- 66.02	36.02

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd3.i
Lab File ID: 3062221.d
Lab Smp Id: ICAL Level 9
Analysis Type: VOA
Quant Type: ISTD
Operator: LD
Method File: /chem/msd3.i/22JUN21.b/321q0622a.m
Misc Info: 50ppbv (200ppbv)

Calibration Date: 22-JUN-2021
Calibration Time: 23:12
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	243405	146043	340767	243405	0.00
108 1,4-Difluorobenze	874076	524446	1223706	874076	0.00
153 Chlorobenzene-d5	831223	498734	1163712	831223	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.28	4.95	5.61	5.28	0.00
108 1,4-Difluorobenze	6.18	5.85	6.51	6.18	0.00
153 Chlorobenzene-d5	8.62	8.29	8.95	8.62	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msd3.i/22JUN21.b/3062221.d

Date : 22-JUN-2021 23:12

Client ID:

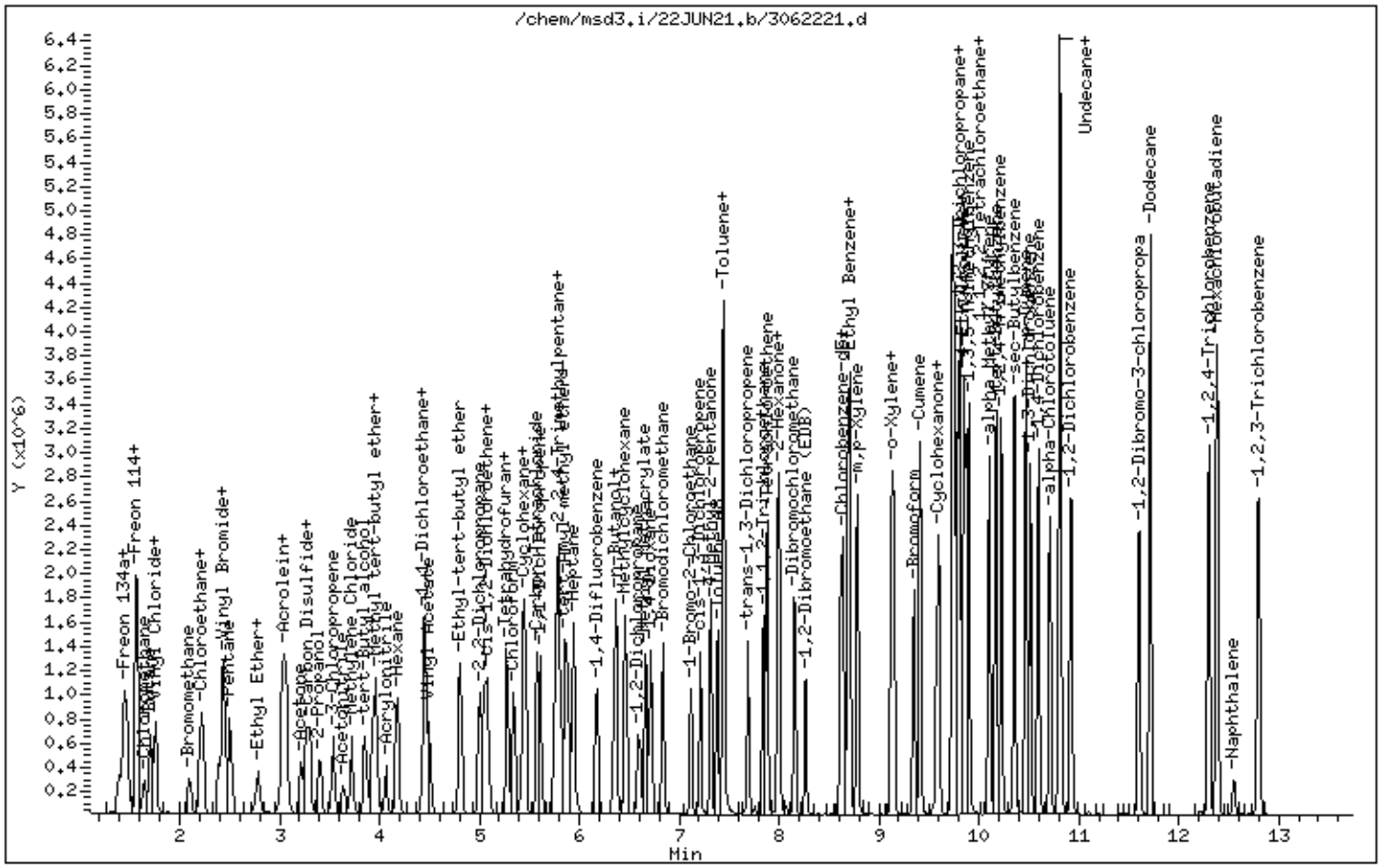
Instrument: msd3.i

Sample Info: 50mL 3018-2115

Operator: LD

Column phase: RTX-624

Column diameter: 0.25



US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msd3.i/22JUN21.b/3062211.d
Lab Smp Id: ICAL Level 10
Inj Date : 22-JUN-2021 18:34
Operator : LD Inst ID: msd3.i
Smp Info : 100mL 3018-2013
Misc Info : 100ppbv (200ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msd3.i/22JUN21.b/321q0622a.m
Meth Date : 23-Jun-2021 12:22 lk8g Quant Type: ISTD
Cal Date : 22-JUN-2021 23:39 Cal File: 3062222.d
Als bottle: 5 Calibration Sample, Level: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT20spICAL.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 90 Bromochloromethane					CAS #: 74-97-5		
5.284	5.284 (1.000)	130	253083	25.0000		80.00- 120.00	100.00
5.284	5.284 (1.000)	128	197908			48.46- 108.46	78.20
5.284	5.270 (1.000)	49	379733			120.39- 180.39	150.04
* 108 1,4-Difluorobenzene					CAS #: 540-36-3		
6.180	6.180 (1.000)	114	922710	25.0000		80.00- 120.00	100.00
6.180	6.180 (1.000)	88	143994			0.00- 45.52	15.61
* 153 Chlorobenzene-d5					CAS #: 3114-55-4		
8.612	8.619 (1.000)	117	877543	25.0000		80.00- 120.00	100.00
8.612	8.619 (1.000)	82	481707			25.46- 85.46	54.89
3 Freon 143a					CAS #: 420-46-2		
1.353	1.353 (0.256)	65	422301	100.000	99.752	80.00- 120.00	100.00
1.353	1.353 (0.256)	69	1045065			217.09- 277.09	247.47
1.353	1.353 (0.256)	64	103510			0.00- 55.87	24.51
6 Propane					CAS #: 74-98-6		
1.437	1.422 (0.272)	43	220396	100.000	95.560	80.00- 120.00	100.00

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE		RATIO
6 Propane (continued)								
1.437	1.422 (0.272)	39	154993			41.62- 101.62		70.32
1.437	1.422 (0.272)	41	124136			22.97- 82.97		56.32
13 Freon 142b					CAS #: 75-68-3			
1.605	1.604 (0.304)	65	1339634	100.000	99.508	80.00- 120.00		100.00
1.605	1.604 (0.304)	45	375942			0.00- 58.17		28.06
36 1-Pentene					CAS #: 109-67-1			
2.458	2.444 (0.465)	55	858577	100.000	100.42	80.00- 120.00		100.00
2.444	2.444 (0.463)	42	1104782			99.17- 159.17		128.68
40 Freon 123a					CAS #: 354-23-4			
2.878	2.878 (0.545)	117	995577	100.000	100.00	80.00- 120.00		100.00
2.878	2.878 (0.545)	67	1327677			103.13- 163.13		133.36
41 Freon 123					CAS #: 306-83-2			
2.976	2.976 (0.563)	83	1459229	100.000	99.939	80.00- 120.00		100.00
2.976	2.976 (0.563)	133	313282			0.00- 51.81		21.47
2.976	2.976 (0.563)	85	961907			37.13- 97.13		65.92
55 Cyclopentene					CAS #: 142-29-0			
3.549	3.549 (0.672)	67	1570286	100.000	101.03	80.00- 120.00		100.00
3.549	3.549 (0.672)	68	593419			7.90- 67.90		37.79
3.549	3.549 (0.672)	53	385199			0.00- 54.87		24.53
56 Methyl Acetate					CAS #: 79-20-9			
3.577	3.577 (0.677)	43	1560707	100.000	97.439	80.00- 120.00		100.00
3.577	3.577 (0.677)	74	264599			0.00- 47.15		16.95
74 Chloroprene					CAS #: 126-99-8			
4.515	4.515 (0.854)	53	1367166	100.000	100.80	80.00- 120.00		100.00
4.515	4.515 (0.854)	88	580254			12.33- 72.33		42.44
4.515	4.515 (0.854)	50	373283			0.00- 57.62		27.30
75 1-Propanol					CAS #: 71-23-8			
4.613	4.613 (0.873)	59	189442	100.000	90.344	80.00- 120.00		100.00
4.613	4.613 (0.873)	42	160675			53.89- 113.89		84.81
4.613	4.613 (0.873)	41	100475			24.09- 84.09		53.04
88 Methyl Acrylate					CAS #: 96-33-3			
5.131	5.130 (0.971)	55	1620095	100.000	99.388	80.00- 120.00		100.00
5.131	5.130 (0.971)	85	212661			0.00- 43.24		13.13
5.131	5.130 (0.971)	58	139809			0.00- 38.83		8.63
103 Isobutanol					CAS #: 78-83-1			
5.774	5.774 (1.093)	39	225396	100.000	75.243	80.00- 120.00		100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
103 Isobutanol (continued)							
5.774	5.774 (1.093)	43	831274			327.69- 387.69	368.81
5.774	5.774 (1.093)	41	612193			237.56- 297.56	271.61
113 Ethyl acrylate					CAS #: 140-88-5		
6.460	6.474 (0.750)	99	128213	100.000	91.427	80.00- 120.00	100.00
6.460	6.460 (0.750)	45	194063			124.67- 184.67	151.36
6.460	6.460 (0.750)	55	2114618			1601.30-1661.30	1649.30
115 2-Pentanone					CAS #: 107-87-9		
6.558	6.557 (0.761)	43	3065851	100.000	93.467	80.00- 120.00	100.00
6.558	6.557 (0.761)	58	246156			0.00- 37.25	8.03
6.558	6.557 (0.761)	86	468245			0.00- 45.08	15.27
145 Butyl Acetate					CAS #: 123-86-4		
8.068	8.068 (1.305)	56	1130017	100.000	92.901	80.00- 120.00	100.00
8.068	8.068 (1.305)	73	396522			5.16- 65.16	35.09
8.068	8.068 (1.305)	43	2753919			214.00- 274.00	243.71
157 1,1,1,2-Tetrachloroethane					CAS #: 630-20-6		
8.712	8.712 (1.012)	131	1276488	100.000	96.705	80.00- 120.00	100.00
8.712	8.712 (1.012)	117	862064			38.22- 98.22	67.53
8.712	8.712 (1.012)	95	481397			7.54- 67.54	37.71
166 2-Heptanone					CAS #: 110-43-0		
9.221	9.221 (1.745)	58	1737838	100.000	93.545	80.00- 120.00	100.00
9.221	9.221 (1.745)	43	2814385			133.36- 193.36	161.95
172 D-Limonene					CAS #: 5989-27-5		
10.417	10.417 (1.210)	68	1639621	100.000	102.84	80.00- 120.00	100.00
10.417	10.424 (1.210)	93	1183759			42.08- 102.08	72.20
186 4-Chlorotoluene					CAS #: 106-43-4		
9.966	9.973 (1.157)	126	1122466	100.000	97.688	80.00- 120.00	100.00
9.966	9.966 (1.157)	91	3789856			305.94- 365.94	337.64
9.966	9.966 (1.157)	63	502773			15.44- 75.44	44.79
197 1,2,3-Trimethylbenzene					CAS #: 526-73-8		
10.596	10.596 (1.230)	120	1576820	100.000	100.11	80.00- 120.00	100.00
10.596	10.596 (1.230)	105	3678486			206.43- 266.43	233.29
10.596	10.596 (1.230)	77	434629			0.00- 58.29	27.56
205 Hexachloroethane					CAS #: 67-72-1		
11.098	11.098 (1.289)	201	994424	100.000	103.42	80.00- 120.00	100.00
11.098	11.098 (1.289)	117	1375706			109.77- 169.77	138.34

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
208 1,3,5-Trichlorobenzene					CAS #: 108-70-3		
11.721	11.728 (1.361)	180	2099856	100.000	100.16	80.00- 120.00	100.00
11.728	11.728 (1.362)	182	1998399			65.79- 125.79	95.17
210 alpha-Pinene					CAS #: 80-56-8		
9.371	9.371 (1.088)	93	2674923	100.000	98.578	80.00- 120.00	100.00
9.371	9.371 (1.088)	77	798194			0.13- 60.13	29.84
214 beta-Pinene					CAS #: 127-91-3		
9.944	9.944 (1.155)	93	2112661	100.000	99.142	80.00- 120.00	100.00
9.966	9.966 (1.157)	91	3789856			145.95- 205.95	179.39

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd3.i
Lab File ID: 3062211.d
Lab Smp Id: ICAL Level 10
Analysis Type: VOA
Quant Type: ISTD
Operator: LD
Method File: /chem/msd3.i/22JUN21.b/321q0622a.m
Misc Info: 100ppbv (200ppbv)

Calibration Date: 22-JUN-2021
Calibration Time: 23:12
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	243405	146043	340767	253083	3.98
108 1,4-Difluorobenze	874076	524446	1223706	922710	5.56
153 Chlorobenzene-d5	831223	498734	1163712	877543	5.57

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.28	4.95	5.61	5.28	0.00
108 1,4-Difluorobenze	6.18	5.85	6.51	6.18	0.00
153 Chlorobenzene-d5	8.62	8.29	8.95	8.61	-0.08

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msd3.i/22JUN21.b/3062211.d

Date : 22-JUN-2021 18:34

Client ID:

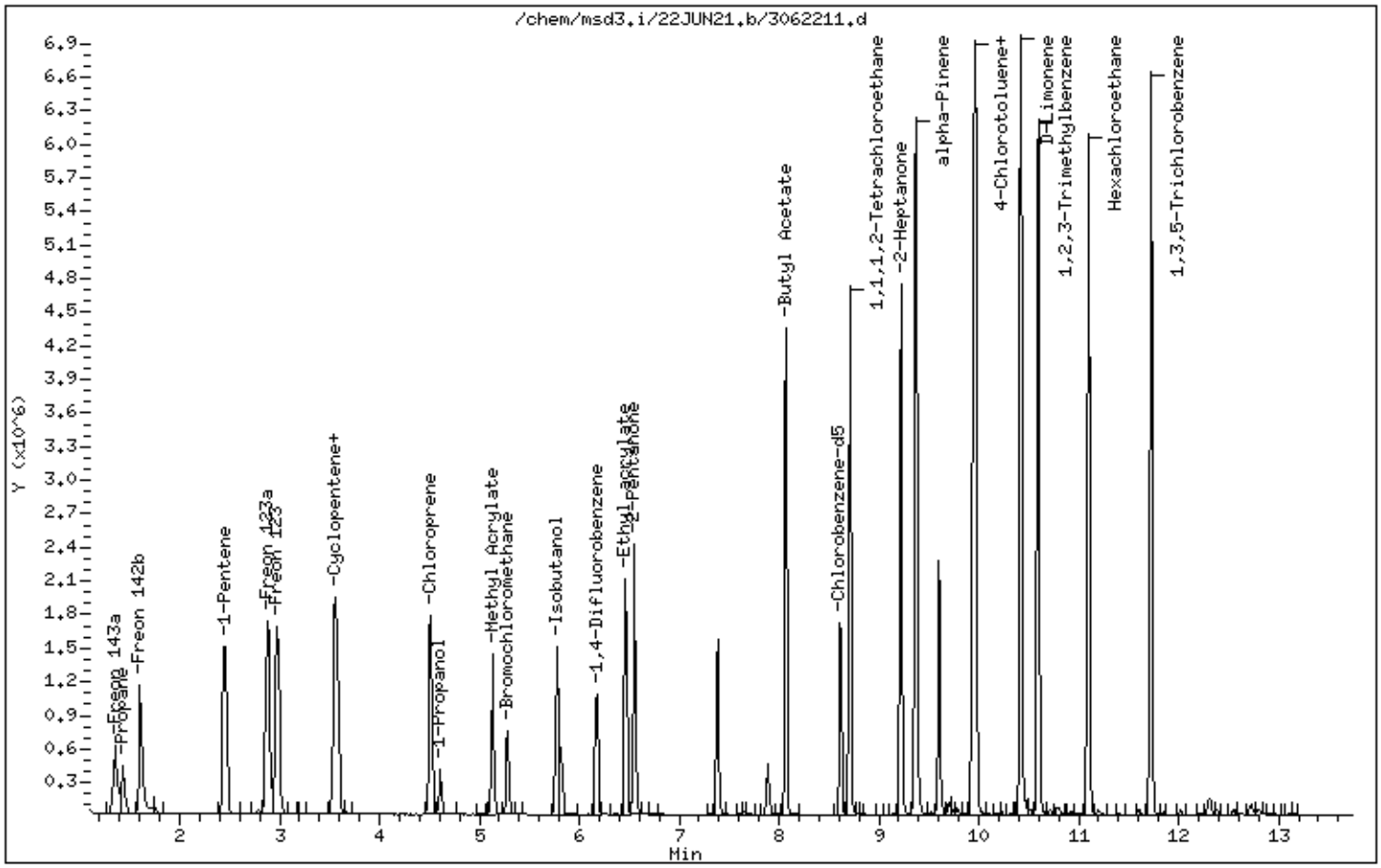
Instrument: msd3.i

Sample Info: 100mL 3018-2013

Operator: LD

Column phase: RTX-624

Column diameter: 0.25



US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msd3.i/22JUN21.b/3062222.d
Lab Smp Id: ICAL Level 10
Inj Date : 22-JUN-2021 23:39
Operator : LD Inst ID: msd3.i
Smp Info : 100mL 3018-2115
Misc Info : 100ppbv (200ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msd3.i/22JUN21.b/321q0622a.m
Meth Date : 23-Jun-2021 12:22 lk8g Quant Type: ISTD
Cal Date : 22-JUN-2021 23:39 Cal File: 3062222.d
Als bottle: 2 Calibration Sample, Level: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT20ICAL.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
4 Freon 134a					CAS #: 811-97-2		
1.395	1.395 (0.264)	83	613528	100.000	95.210	80.00- 120.00	100.00
1.395	1.395 (0.264)	69	511616			51.82- 111.82	83.39
1.492	1.479 (0.282)	51	1594986			194.91- 254.91	259.97
5 Propylene					CAS #: 115-07-1		
1.437	1.423 (0.272)	41	636513	100.000	97.305	80.00- 120.00	100.00
1.437	1.423 (0.272)	42	424408			35.61- 95.61	66.68
1.437	1.423 (0.272)	39	467122			42.66- 102.66	73.39
7 1,1-Difluoroethane					CAS #: 75-37-6		
1.450	1.437 (0.274)	65	401492	100.000	94.157	80.00- 120.00	100.00
1.492	1.479 (0.282)	51	1594986			321.86- 381.86	397.26
1.450	1.437 (0.274)	47	291028			45.34- 105.34	72.49
8 Freon 12					CAS #: 75-71-8		
1.464	1.465 (0.277)	85	1734118	100.000	91.921	80.00- 120.00	100.00
1.464	1.465 (0.277)	87	560580			2.63- 62.63	32.33
9 Chlorodifluoromethane					CAS #: 75-45-6		
1.492	1.479 (0.282)	67	185750	100.000	89.588	80.00- 120.00	100.00

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
9 Chlorodifluoromethane (continued)							
1.492	1.479 (0.282)	51	1594986			719.76- 779.76	858.67
10 Freon 114					CAS #: 76-14-2		
1.576	1.562 (0.298)	135	1318387	100.000	94.316	80.00- 120.00	100.00
1.576	1.562 (0.298)	137	422419			2.12- 62.12	32.04
12 Isobutane					CAS #: 75-28-5		
1.576	1.576 (0.298)	43	1436676	100.000	97.717	80.00- 120.00	100.00
1.576	1.576 (0.298)	42	471194			2.44- 62.44	32.80
1.576	1.576 (0.298)	58	49177			0.00- 33.26	3.42
15 Chloromethane					CAS #: 74-87-3		
1.646	1.646 (0.312)	50	737502	100.000	94.057	80.00- 120.00	100.00
1.646	1.646 (0.312)	52	236973			2.41- 62.41	32.13
18 Butane					CAS #: 106-97-8		
1.716	1.702 (0.325)	58	156059	100.000	84.277	80.00- 120.00	100.00
1.702	1.702 (0.322)	43	1166146			727.41- 787.41	747.25
19 Vinyl Chloride					CAS #: 75-01-4		
1.744	1.744 (0.330)	62	713856	100.000	85.078	80.00- 120.00	100.00
1.744	1.744 (0.330)	64	217647			1.28- 61.28	30.49
20 1,3-Butadiene					CAS #: 106-99-0		
1.758	1.758 (0.333)	54	619808	100.000	80.602	80.00- 120.00	100.00
1.758	1.758 (0.333)	39	613422			69.23- 129.23	98.97
24 Bromomethane					CAS #: 74-83-9		
2.108	2.094 (0.399)	94	619825	100.000	93.404	80.00- 120.00	100.00
2.108	2.094 (0.399)	96	581336			62.78- 122.78	93.79
30 Chloroethane					CAS #: 75-00-3		
2.206	2.206 (0.417)	64	373173	100.000	94.745	80.00- 120.00	100.00
2.206	2.206 (0.417)	66	116387			1.44- 61.44	31.19
2.206	2.206 (0.417)	49	119717			4.12- 64.12	32.08
31 Isopentane					CAS #: 78-78-4		
2.220	2.220 (0.420)	43	956298	100.000	94.945	80.00- 120.00	100.00
2.220	2.220 (0.420)	57	662049			38.82- 98.82	69.23
32 Vinyl Bromide					CAS #: 593-60-2		
2.402	2.388 (0.455)	106	674945	100.000	93.548	80.00- 120.00	100.00
2.402	2.388 (0.455)	108	624999			63.14- 123.14	92.60
33 Freon 11					CAS #: 75-69-4		
2.444	2.430 (0.462)	101	1856957	100.000	93.032	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
33 Freon 11 (continued)							
2.444	2.430 (0.462)	103	1205290			35.12- 95.12	64.91
34 Dichlorofluoromethane					CAS #: 75-43-4		
2.444	2.444 (0.462)	67	1524106	100.000	95.517	80.00- 120.00	100.00
2.444	2.444 (0.462)	69	465350			0.74- 60.74	30.53
35 Pentane					CAS #: 109-66-0		
2.500	2.500 (0.473)	43	1523095	100.000	94.916	80.00- 120.00	100.00
2.500	2.500 (0.473)	57	243603			0.00- 45.97	15.99
2.500	2.500 (0.473)	72	127162			0.00- 38.10	8.35
38 Ethyl Ether					CAS #: 60-29-7		
2.794	2.780 (0.529)	74	326353	100.000	90.709	80.00- 120.00	100.00
2.780	2.780 (0.526)	59	579526			147.68- 207.68	177.58
2.780	2.780 (0.526)	45	779526			206.40- 266.40	238.86
39 Ethanol					CAS #: 64-17-5		
2.766	2.766 (0.523)	46	138933	100.000	86.040	80.00- 120.00	100.00
2.780	2.780 (0.526)	45	778648			523.01- 583.01	560.45
42 Acrolein					CAS #: 107-02-8		
3.032	3.032 (0.574)	55	264085	100.000	98.552	80.00- 120.00	100.00
3.032	3.032 (0.574)	56	363405			110.33- 170.33	137.61
43 Freon 113					CAS #: 76-13-1		
3.046	3.032 (0.576)	151	1250959	100.000	91.678	80.00- 120.00	100.00
3.046	3.032 (0.576)	153	798630			33.72- 93.72	63.84
3.032	3.032 (0.574)	101	1511159			89.67- 149.67	120.80
44 1,1-Dichloroethene					CAS #: 75-35-4		
3.074	3.074 (0.582)	96	708836	100.000	86.246	80.00- 120.00	100.00
3.074	3.074 (0.582)	98	448778			33.39- 93.39	63.31
3.074	3.074 (0.582)	61	1363659			163.82- 223.82	192.38
47 Acetone					CAS #: 67-64-1		
3.213	3.213 (0.608)	58	418004	100.000	92.052	80.00- 120.00	100.00
3.213	3.213 (0.608)	43	1359990			299.66- 359.66	325.35
48 Carbon Disulfide					CAS #: 75-15-0		
3.297	3.297 (0.624)	76	1958428	100.000	95.774	80.00- 120.00	100.00
49 Iodomethane					CAS #: 74-88-4		
3.269	3.269 (0.619)	142	1769537	100.000	100.08	80.00- 120.00	100.00
3.269	3.269 (0.619)	127	783525			14.58- 74.58	44.28

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
52 2-Propanol					CAS #: 67-63-0		
3.409	3.395 (0.645)	45	1597988	100.000	97.850	80.00- 120.00	100.00
3.409	3.395 (0.645)	43	297202			0.00- 48.61	18.60
54 3-Chloropropene					CAS #: 107-05-1		
3.535	3.535 (0.669)	76	324026	100.000	92.040	80.00- 120.00	100.00
3.535	3.535 (0.669)	41	1158928			338.06- 398.06	357.67
57 Acetonitrile					CAS #: 75-05-8		
3.633	3.633 (0.688)	41	683875	100.000	95.639	80.00- 120.00	100.00
3.633	3.633 (0.688)	40	358324			21.81- 81.81	52.40
3.633	3.633 (0.688)	38	82419			0.00- 41.86	12.05
59 Methylene Chloride					CAS #: 75-09-2		
3.731	3.717 (0.706)	49	1025987	100.000	94.407	80.00- 120.00	100.00
3.731	3.717 (0.706)	84	622839			30.77- 90.77	60.71
3.731	3.717 (0.706)	51	315351			1.39- 61.39	30.74
62 tert-Butyl alcohol					CAS #: 75-65-0		
3.857	3.857 (0.730)	59	1954601	100.000	95.354	80.00- 120.00	100.00
3.857	3.857 (0.730)	41	411903			0.00- 51.05	21.07
3.857	3.857 (0.730)	57	206768			0.00- 41.68	10.58
63 Methyl tert-butyl ether					CAS #: 1634-04-4		
3.941	3.941 (0.746)	73	2039161	100.000	92.167	80.00- 120.00	100.00
3.941	3.941 (0.746)	57	612141			0.00- 58.86	30.02
3.941	3.941 (0.746)	41	551449			0.00- 57.27	27.04
64 trans-1,2-Dichloroethene					CAS #: 156-60-5		
3.969	3.969 (0.751)	98	476616	100.000	86.173	80.00- 120.00	100.00
3.969	3.969 (0.751)	61	1275368			244.59- 304.59	267.59
3.969	3.969 (0.751)	96	745512			129.84- 189.84	156.42
66 Acrylonitrile					CAS #: 107-13-1		
4.067	4.067 (0.770)	52	557795	100.000	84.032	80.00- 120.00	100.00
4.067	4.067 (0.770)	53	664587			88.50- 148.50	119.15
67 Hexane					CAS #: 110-54-3		
4.179	4.179 (0.791)	57	1427094	100.000	95.160	80.00- 120.00	100.00
4.179	4.179 (0.791)	43	899519			32.99- 92.99	63.03
4.179	4.179 (0.791)	86	172439			0.00- 42.56	12.08
71 1,1-Dichloroethane					CAS #: 75-34-3		
4.459	4.459 (0.844)	63	1419983	100.000	92.070	80.00- 120.00	100.00
4.459	4.459 (0.844)	65	436496			0.76- 60.76	30.74

				AMOUNTS				
					CAL-AMT	ON-COL		
	RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
	72 Isopropyl ether						CAS #: 108-20-3	
	4.445	4.445 (0.841)	45	3060328	100.000	96.696	80.00- 120.00	100.00
	4.445	4.445 (0.841)	87	670085			0.00- 51.37	21.90
	4.445	4.445 (0.841)	59	344177			0.00- 41.09	11.25
	73 Vinyl Acetate						CAS #: 108-05-4	
	4.501	4.501 (0.852)	86	182859	100.000	96.437	80.00- 120.00	100.00
	4.501	4.501 (0.852)	43	2614522			1391.63-1451.63	1429.80
	79 Ethyl-tert-butyl ether						CAS #: 637-92-3	
	4.809	4.809 (0.910)	59	2942184	100.000	96.293	80.00- 120.00	100.00
	4.809	4.809 (0.910)	87	985529			3.22- 63.22	33.50
	4.809	4.809 (0.910)	41	533952			0.00- 48.12	18.15
	84 2,2-Dichloropropane						CAS #: 594-20-7	
	5.004	5.004 (0.947)	77	1360664	100.000	94.702	80.00- 120.00	100.00
	5.004	5.004 (0.947)	79	444158			2.00- 62.00	32.64
	5.004	5.004 (0.947)	97	317666			0.00- 53.36	23.35
	85 cis-1,2-Dichloroethene						CAS #: 156-59-2	
	5.046	5.046 (0.955)	98	491586	100.000	89.660	80.00- 120.00	100.00
	5.046	5.046 (0.955)	96	761611			127.22- 187.22	154.93
	5.046	5.046 (0.955)	61	1517092			283.85- 343.85	308.61
	86 2-Butanone						CAS #: 78-93-3	
	5.060	5.074 (0.958)	72	370355	100.000	96.708	80.00- 120.00	100.00
	5.074	5.074 (0.960)	43	3955007			1055.75-1115.75	1067.90
	5.060	5.074 (0.958)	57	149566			10.59- 70.59	40.38
	87 Ethyl Acetate						CAS #: 141-78-6	
	5.088	5.088 (0.963)	45	316451	100.000	100.23	80.00- 120.00	100.00
	5.046	5.046 (0.955)	61	1517092			450.31- 510.31	479.41
	5.088	5.088 (0.963)	70	192551			30.42- 90.42	60.85
	89 Tetrahydrofuran						CAS #: 109-99-9	
	5.270	5.270 (0.997)	42	1035981	100.000	95.933	80.00- 120.00	100.00
	5.270	5.270 (0.997)	71	333878			2.92- 62.92	32.23
	5.270	5.270 (0.997)	72	344828			3.54- 63.54	33.29
*	90 Bromochloromethane						CAS #: 74-97-5	
	5.284	5.284 (1.000)	130	270814	25.0000		80.00- 120.00	100.00
	5.284	5.284 (1.000)	128	210159			48.46- 108.46	77.60
	5.270	5.270 (1.000)	49	408222			120.39- 180.39	150.74
	92 Chloroform						CAS #: 67-66-3	
	5.340	5.340 (1.011)	83	1579112	100.000	93.002	80.00- 120.00	100.00

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
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92 Chloroform (continued)							
5.340	5.340 (1.011)	85	1020939			34.71- 94.71	64.65
94 Cyclohexane					CAS #: 110-82-7		
5.438	5.438 (1.029)	84	976098	100.000	90.950	80.00- 120.00	100.00
5.438	5.438 (1.029)	56	1468324			120.40- 180.40	150.43
5.438	5.438 (1.029)	41	805074			54.20- 114.20	82.48
96 1,1,1-Trichloroethane					CAS #: 71-55-6		
5.466	5.466 (1.034)	97	1681907	100.000	88.126	80.00- 120.00	100.00
5.466	5.466 (1.034)	99	1071661			33.76- 93.76	63.72
97 Carbon Tetrachloride					CAS #: 56-23-5		
5.578	5.578 (1.056)	119	1707419	100.000	97.135	80.00- 120.00	100.00
5.578	5.578 (1.056)	117	1780267			73.68- 133.68	104.27
99 1,1-Dichloropropene					CAS #: 563-58-6		
5.606	5.606 (0.907)	110	429711	100.000	97.363	80.00- 120.00	100.00
5.606	5.606 (0.907)	75	1116661			231.09- 291.09	259.86
101 2,2,4-Trimethylpentane					CAS #: 540-84-1		
5.774	5.774 (1.093)	57	4500575	100.000	95.965	80.00- 120.00	100.00
5.774	5.774 (1.093)	56	1406154			1.12- 61.12	31.24
5.774	5.774 (1.093)	41	1217054			0.00- 57.49	27.04
102 Benzene					CAS #: 71-43-2		
5.788	5.788 (0.937)	78	2110049	100.000	95.345	80.00- 120.00	100.00
5.788	5.788 (0.937)	77	493874			0.00- 53.80	23.41
$ 104 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
5.816	5.816 (1.101)	65	365334	25.0000	24.514	80.00- 120.00	100.00
5.816	5.816 (1.101)	67	193990			21.66- 81.66	53.10
105 tert-Amyl methyl ether					CAS #: 994-05-8		
5.858	5.858 (0.948)	87	567701	100.000	96.206	80.00- 120.00	100.00
5.858	5.858 (0.948)	73	2251162			365.20- 425.20	396.54
5.858	5.858 (0.948)	55	682011			91.31- 151.31	120.14
106 1,2-Dichloroethane					CAS #: 107-06-2		
5.886	5.886 (0.952)	62	1195487	100.000	93.828	80.00- 120.00	100.00
5.886	5.886 (0.952)	64	370222			1.20- 61.20	30.97
107 Heptane					CAS #: 142-82-5		
5.942	5.942 (0.962)	71	785763	100.000	90.143	80.00- 120.00	100.00
5.942	5.942 (0.962)	43	1642483			179.02- 239.02	209.03
5.942	5.942 (0.962)	57	909991			84.85- 144.85	115.81

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
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* 108 1,4-Difluorobenzene					CAS #: 540-36-3		
6.180	6.180 (1.000)	114	969803	25.0000		80.00- 120.00	100.00
6.166	6.180 (1.000)	88	151552			0.00- 45.52	15.63
110 n-Butanol					CAS #: 71-36-3		
6.348	6.348 (1.027)	56	700436	100.000	98.744	80.00- 120.00	100.00
6.348	6.348 (1.027)	41	494892			40.21- 100.21	70.65
6.348	6.348 (1.027)	43	386523			25.00- 85.00	55.18
111 Trichloroethene					CAS #: 79-01-6		
6.362	6.362 (1.029)	95	1049365	100.000	94.516	80.00- 120.00	100.00
6.362	6.362 (1.029)	130	1108357			74.96- 134.96	105.62
6.362	6.362 (1.029)	97	680678			34.80- 94.80	64.87
114 1,2-Dichloropropane					CAS #: 78-87-5		
6.585	6.586 (1.066)	63	391457	100.000	76.309	80.00- 120.00	100.00
6.585	6.586 (1.066)	62	250711			52.03- 112.03	64.05
6.585	6.586 (1.066)	41	383309			79.97- 139.97	97.92
116 Methyl Methacrylate					CAS #: 80-62-6		
6.664	6.664 (0.774)	69	834771	100.000	94.078	80.00- 120.00	100.00
6.664	6.664 (0.774)	41	1363486			134.02- 194.02	163.34
6.664	6.664 (0.774)	100	333587			9.54- 69.54	39.96
117 1,4-Dioxane					CAS #: 123-91-1		
6.699	6.699 (1.084)	88	540204	100.000	96.360	80.00- 120.00	100.00
6.692	6.699 (1.083)	58	467204			55.80- 115.80	86.49
6.692	6.699 (1.083)	57	199887			8.68- 68.68	37.00
118 Dibromomethane					CAS #: 74-95-3		
6.721	6.721 (0.780)	174	960834	100.000	97.231	80.00- 120.00	100.00
6.714	6.721 (0.780)	93	929216			67.27- 127.27	96.71
6.714	6.721 (0.780)	95	768363			50.92- 110.92	79.97
122 Bromodichloromethane					CAS #: 75-27-4		
6.836	6.836 (1.106)	83	1724424	100.000	92.713	80.00- 120.00	100.00
6.836	6.836 (1.106)	85	1104118			34.31- 94.31	64.03
126 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.208	7.208 (1.166)	75	1346503	100.000	97.401	80.00- 120.00	100.00
7.208	7.208 (1.166)	77	430744			1.42- 61.42	31.99
7.208	7.208 (1.166)	39	915435			38.56- 98.56	67.99
127 Methylcyclohexane					CAS #: 108-87-2		
6.460	6.460 (1.045)	83	1349887	100.000	90.923	80.00- 120.00	100.00
6.460	6.460 (1.045)	98	614901			15.60- 75.60	45.55

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
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127 Methylcyclohexane (continued)							
6.460	6.460 (1.045)	55	1514744			78.53- 138.53	112.21
131 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.315	7.316 (1.184)	58	860374	100.000	91.530	80.00- 120.00	100.00
7.315	7.316 (1.184)	43	2250859			231.30- 291.30	261.61
7.315	7.316 (1.184)	85	329277			8.94- 68.94	38.27
$ 134 Toluene-d8					CAS #: 2037-26-5		
7.387	7.387 (1.195)	98	1005757	25.0000	25.179	80.00- 120.00	100.00
7.387	7.387 (1.195)	70	114191			0.00- 41.47	11.35
7.387	7.387 (1.195)	100	672050			36.47- 96.47	66.82
137 Toluene					CAS #: 108-88-3		
7.437	7.437 (1.203)	91	2815495	100.000	94.814	80.00- 120.00	100.00
7.437	7.437 (1.203)	92	1643396			28.30- 88.30	58.37
136 Octane					CAS #: 111-65-9		
7.444	7.444 (1.205)	57	941260	100.000	95.273	80.00- 120.00	100.00
7.444	7.444 (1.205)	85	918231			67.11- 127.11	97.55
7.444	7.444 (1.205)	43	2265956			214.21- 274.21	240.74
139 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
7.688	7.688 (0.893)	75	1313517	100.000	96.729	80.00- 120.00	100.00
7.688	7.688 (0.893)	77	417074			2.15- 62.15	31.75
7.688	7.688 (0.893)	39	852170			36.09- 96.09	64.88
141 1,1,2-Trichloroethane					CAS #: 79-00-5		
7.846	7.846 (0.911)	97	978950	100.000	93.739	80.00- 120.00	100.00
7.846	7.846 (0.911)	99	608344			31.62- 91.62	62.14
7.846	7.846 (0.911)	83	846723			56.35- 116.35	86.49
142 Tetrachloroethene					CAS #: 127-18-4		
7.881	7.881 (0.915)	166	1395971	100.000	96.647	80.00- 120.00	100.00
7.881	7.881 (0.915)	129	1092821			48.71- 108.71	78.28
7.881	7.881 (0.915)	131	1058130			46.55- 106.55	75.80
143 2-Hexanone					CAS #: 591-78-6		
8.003	8.003 (0.929)	58	1182682	100.000	98.592	80.00- 120.00	100.00
8.003	8.003 (0.929)	43	2214530			157.91- 217.91	187.25
8.003	8.003 (0.929)	100	213311			0.00- 47.86	18.04
144 1,3-Dichloropropane					CAS #: 142-28-9		
7.989	7.989 (1.293)	76	1336647	100.000	94.344	80.00- 120.00	100.00
7.989	7.989 (1.293)	41	1510339			82.96- 142.96	112.99
7.989	7.989 (1.293)	78	439394			2.55- 62.55	32.87

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
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146 Dibromochloromethane						CAS #: 124-48-1	
8.154	8.154 (0.947)	129	1948212	100.000	98.333	80.00- 120.00	100.00
8.154	8.154 (0.947)	127	1522204			47.77- 107.77	78.13
148 1,2-Dibromoethane (EDB)						CAS #: 106-93-4	
8.268	8.268 (0.960)	107	1576705	100.000	97.220	80.00- 120.00	100.00
8.268	8.268 (0.960)	109	1483694			64.60- 124.60	94.10
151 1-Bromo-2-Chloroethane						CAS #: 107-04-0	
7.115	7.115 (1.151)	63	1772704	100.000	98.763	80.00- 120.00	100.00
7.115	7.115 (1.151)	65	547792			0.95- 60.95	30.90
7.115	7.122 (1.151)	144	182664			0.00- 40.45	10.30
* 153 Chlorobenzene-d5						CAS #: 3114-55-4	
8.612	8.619 (1.000)	117	921990	25.0000		80.00- 120.00	100.00
8.612	8.619 (1.000)	82	511597			25.46- 85.46	55.49
154 Chlorobenzene						CAS #: 108-90-7	
8.641	8.641 (1.003)	112	2352628	100.000	93.362	80.00- 120.00	100.00
8.641	8.641 (1.003)	114	762481			2.13- 62.13	32.41
8.641	8.641 (1.003)	77	1324984			26.35- 86.35	56.32
155 Ethyl Benzene						CAS #: 100-41-4	
8.684	8.684 (1.008)	106	1209107	100.000	95.957	80.00- 120.00	100.00
8.684	8.684 (1.008)	91	3757569			282.48- 342.48	310.77
156 Nonane						CAS #: 111-84-2	
8.705	8.705 (1.011)	43	2336438	100.000	95.666	80.00- 120.00	100.00
8.705	8.705 (1.011)	57	2117667			59.52- 119.52	90.64
8.705	8.705 (1.011)	85	691015			0.00- 59.76	29.58
158 m,p-Xylene						CAS #: 108-38-3	
8.784	8.784 (1.020)	106	1489255	100.000	95.002	80.00- 120.00	100.00
8.784	8.784 (1.020)	91	2985822			171.36- 231.36	200.49
164 o-Xylene						CAS #: 95-47-6	
9.121	9.128 (1.059)	106	1431351	100.000	96.181	80.00- 120.00	100.00
9.121	9.128 (1.059)	91	3022397			179.99- 239.99	211.16
165 Styrene						CAS #: 100-42-5	
9.142	9.149 (1.062)	104	2491307	100.000	96.625	80.00- 120.00	100.00
9.142	9.149 (1.062)	78	1233241			19.09- 79.09	49.50
167 Bromoform						CAS #: 75-25-2	
9.350	9.350 (1.086)	173	1876827	100.000	99.903	80.00- 120.00	100.00
9.350	9.350 (1.086)	171	970844			21.45- 81.45	51.73

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
168 Cumene					CAS #: 98-82-8		
9.414	9.414 (1.093)	105	4441141	100.000	94.389	80.00- 120.00	100.00
9.414	9.414 (1.093)	120	1213205			0.00- 56.99	27.32
9.407	9.407 (1.092)	51	520168			0.00- 41.77	11.71
169 Cyclohexanone					CAS #: 108-94-1		
9.579	9.579 (1.112)	55	1357093	100.000	91.653	80.00- 120.00	100.00
9.579	9.579 (1.112)	98	519078			9.22- 69.22	38.25
9.579	9.579 (1.112)	42	966302			42.60- 102.60	71.20
$ 170 4-Bromofluorobenzene					CAS #: 460-00-4		
9.600	9.601 (1.115)	174	617978	25.0000	25.340	80.00- 120.00	100.00
9.600	9.601 (1.115)	95	766815			93.06- 153.06	124.08
9.600	9.601 (1.115)	176	568534			62.87- 122.87	92.00
175 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
9.737	9.737 (1.131)	83	2172510	100.000	93.129	80.00- 120.00	100.00
9.737	9.737 (1.131)	85	1409525			34.35- 94.35	64.88
177 Bromobenzene					CAS #: 108-86-1		
9.737	9.729 (1.131)	156	1422294	100.000	97.240	80.00- 120.00	100.00
9.729	9.737 (1.130)	158	1378995			67.29- 127.29	96.96
9.729	9.729 (1.130)	77	2306309			132.41- 192.41	162.15
178 Propylbenzene					CAS #: 103-65-1		
9.758	9.758 (1.133)	91	5235902	100.000	95.372	80.00- 120.00	100.00
9.758	9.758 (1.133)	120	1259252			0.00- 53.77	24.05
9.758	9.758 (1.133)	105	201142			0.00- 33.81	3.84
179 1,2,3-Trichloropropane					CAS #: 96-18-4		
9.787	9.787 (1.136)	110	664921	100.000	94.622	80.00- 120.00	100.00
9.787	9.787 (1.136)	75	2103413			285.00- 345.00	316.34
9.787	9.787 (1.136)	61	561893			54.06- 114.06	84.51
181 trans-1,4-Dichloro-2-butene					CAS #: 110-57-6		
9.787	9.787 (1.136)	53	525143	100.000	94.441	80.00- 120.00	100.00
9.787	9.787 (1.136)	89	264898			21.19- 81.19	50.44
9.787	9.787 (1.136)	75	2103413			372.45- 432.45	400.54
182 Decane					CAS #: 124-18-5		
9.808	9.808 (1.139)	57	2704752	100.000	95.281	80.00- 120.00	100.00
9.815	9.808 (1.140)	71	909461			4.13- 64.13	33.62
9.815	9.815 (1.140)	142	126798			0.00- 34.73	4.69
183 4-Ethyltoluene					CAS #: 622-96-8		
9.851	9.851 (1.144)	120	1347972	100.000	94.725	80.00- 120.00	100.00

				AMOUNTS				
					CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE		(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========		=======	=======	==========	=====
183 4-Ethyltoluene (continued)								
9.851	9.851 (1.144)	105	4384263				296.79- 356.79	325.25
184 2-Chlorotoluene						CAS #: 95-49-8		
9.873	9.873 (1.146)	126	1110440	100.000		96.036	80.00- 120.00	100.00
9.873	9.873 (1.146)	91	4029584				336.29- 396.29	362.88
9.873	9.873 (1.146)	65	638776				38.83- 98.83	57.52
185 1,3,5-Trimethylbenzene						CAS #: 108-67-8		
9.901	9.901 (1.150)	120	1891863	100.000		94.653	80.00- 120.00	100.00
9.901	9.901 (1.150)	105	3870232				176.40- 236.40	204.57
188 alpha Methyl Styrene						CAS #: 98-83-9		
10.102	10.102 (1.173)	118	2021719	100.000		98.763	80.00- 120.00	100.00
10.102	10.102 (1.173)	103	1137074				26.64- 86.64	56.24
189 tert-Butylbenzene						CAS #: 98-06-6		
10.174	10.174 (1.181)	119	3477934	100.000		94.572	80.00- 120.00	100.00
10.174	10.174 (1.181)	134	876103				0.00- 54.82	25.19
10.174	10.174 (1.181)	91	2342532				36.92- 96.92	67.35
190 1,2,4-Trimethylbenzene						CAS #: 95-63-6		
10.224	10.224 (1.187)	105	3747431	100.000		95.082	80.00- 120.00	100.00
10.224	10.224 (1.187)	120	1759100				16.58- 76.58	46.94
192 sec-Butylbenzene						CAS #: 135-98-8		
10.360	10.360 (1.203)	134	1142132	100.000		96.152	80.00- 120.00	100.00
10.353	10.360 (1.202)	105	5423689				451.53- 511.53	474.87
10.353	10.353 (1.202)	91	862410				46.48- 106.48	75.51
194 p-Cymene						CAS #: 99-87-6		
10.467	10.467 (1.215)	119	4798506	100.000		96.464	80.00- 120.00	100.00
10.467	10.467 (1.215)	134	1298497				0.00- 56.79	27.06
10.467	10.467 (1.215)	91	1164811				0.00- 54.04	24.27
195 1,3-Dichlorobenzene						CAS #: 541-73-1		
10.517	10.517 (1.221)	146	2608452	100.000		97.415	80.00- 120.00	100.00
10.517	10.517 (1.221)	148	1662791				33.53- 93.53	63.75
10.517	10.517 (1.221)	111	1080794				11.05- 71.05	41.43
196 1,4-Dichlorobenzene						CAS #: 106-46-7		
10.596	10.596 (1.230)	146	2651837	100.000		96.147	80.00- 120.00	100.00
10.596	10.596 (1.230)	148	1689235				33.47- 93.47	63.70
10.596	10.596 (1.230)	111	1056200				9.65- 69.65	39.83
199 alpha-Chlorotoluene						CAS #: 100-44-7		
10.711	10.711 (1.244)	91	3738875	100.000		98.594	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
199 alpha-Chlorotoluene (continued)							
10.711	10.711 (1.244)	126	834770			0.00- 52.04	22.33
201 Undecane					CAS #: 1120-21-4		
10.804	10.804 (1.254)	57	3222859	100.000	96.345	80.00- 120.00	100.00
10.804	10.804 (1.254)	43	2761339			55.86- 115.86	85.68
202 Butylbenzene					CAS #: 104-51-8		
10.818	10.818 (1.256)	134	1249319	100.000	96.862	80.00- 120.00	100.00
10.818	10.818 (1.256)	91	4460893			331.99- 391.99	357.07
10.818	10.818 (1.256)	92	2360311			161.01- 221.01	188.93
204 1,2-Dichlorobenzene					CAS #: 95-50-1		
10.918	10.926 (1.268)	146	2503101	100.000	96.737	80.00- 120.00	100.00
10.926	10.926 (1.269)	148	1595663			33.23- 93.23	63.75
10.918	10.918 (1.268)	111	1066702			12.36- 72.36	42.62
206 1,2-Dibromo-3-chloropropane					CAS #: 96-12-8		
11.606	11.606 (1.348)	157	1470618	100.000	98.018	80.00- 120.00	100.00
11.606	11.599 (1.348)	75	1299661			58.96- 118.96	88.38
11.606	11.606 (1.348)	155	1132957			47.82- 107.82	77.04
207 Dodecane					CAS #: 112-40-3		
11.714	11.714 (1.360)	57	3458257	123.600	122.26	80.00- 120.00	100.00
11.714	11.714 (1.360)	43	2784562			50.85- 110.85	80.52
213 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
12.301	12.301 (1.428)	180	2232617	125.900	121.48	80.00- 120.00	100.00
12.301	12.301 (1.428)	182	2139821			65.40- 125.40	95.84
215 Hexachlorobutadiene					CAS #: 87-68-3		
12.387	12.387 (1.438)	225	1709087	128.700	123.11	80.00- 120.00	100.00
12.387	12.387 (1.438)	223	1090155			33.70- 93.70	63.79
216 Naphthalene					CAS #: 91-20-3		
12.552	12.552 (1.457)	128	596371	12.7000	10.626	80.00- 120.00	100.00
12.552	12.552 (1.457)	127	78294			0.00- 43.10	13.13
222 1,2,3-Trichlorobenzene					CAS #: 87-61-6		
12.802	12.802 (1.487)	180	2153358	133.100	128.04	80.00- 120.00	100.00
12.802	12.802 (1.487)	182	2052941			65.67- 125.67	95.34
12.802	12.802 (1.487)	145	775566			6.02- 66.02	36.02

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd3.i
Lab File ID: 3062222.d
Lab Smp Id: ICAL Level 10
Analysis Type: VOA
Quant Type: ISTD
Operator: LD
Method File: /chem/msd3.i/22JUN21.b/321q0622a.m
Misc Info: 100ppbv (200ppbv)

Calibration Date: 22-JUN-2021
Calibration Time: 23:12
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	243405	146043	340767	270814	11.26
108 1,4-Difluorobenze	874076	524446	1223706	969803	10.95
153 Chlorobenzene-d5	831223	498734	1163712	921990	10.92

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.28	4.95	5.61	5.28	-0.00
108 1,4-Difluorobenze	6.18	5.85	6.51	6.18	-0.00
153 Chlorobenzene-d5	8.62	8.29	8.95	8.61	-0.08

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msd3.i/22JUN21.b/3062222.d

Date : 22-JUN-2021 23:39

Client ID:

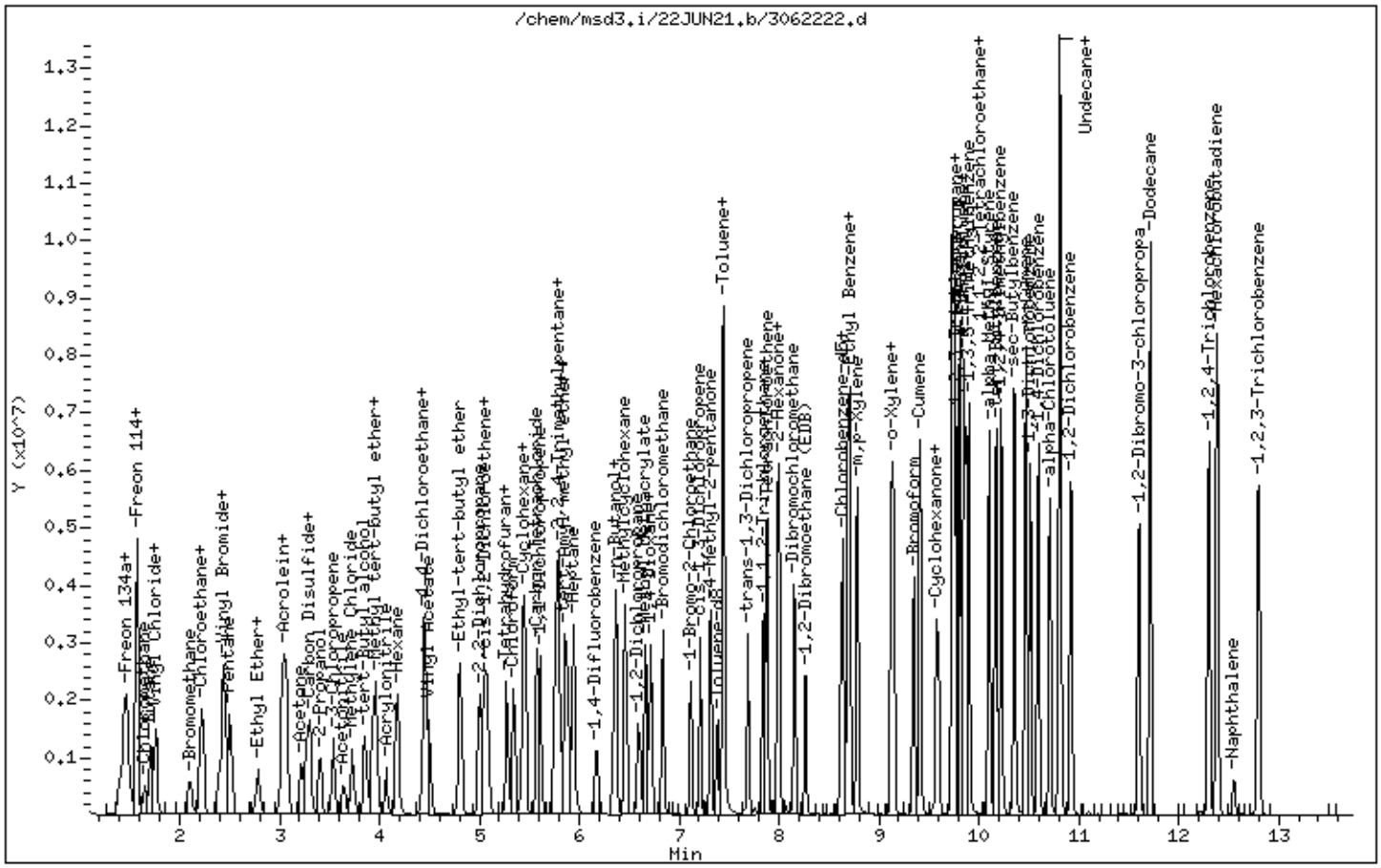
Instrument: msd3.i

Sample Info: 100mL 3018-2115

Operator: LD

Column phase: RTX-624

Column diameter: 0.25



US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msd3.i/22JUN21.b/3062212.d
Lab Smp Id: ICAL Level 11
Inj Date : 22-JUN-2021 19:03
Operator : LD Inst ID: msd3.i
Smp Info : 200mL 3018-2013
Misc Info : 200ppbv (200ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msd3.i/22JUN21.b/321q0622a.m
Meth Date : 23-Jun-2021 12:22 lk8g Quant Type: ISTD
Cal Date : 23-JUN-2021 00:09 Cal File: 3062223.d
Als bottle: 5 Calibration Sample, Level: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT20spICAL.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 90 Bromochloromethane					CAS #: 74-97-5		
5.284	5.284 (1.000)	130	238686	25.0000		80.00- 120.00	100.00
5.284	5.284 (1.000)	128	184595			48.46- 108.46	77.34
5.284	5.270 (1.000)	49	359400			120.39- 180.39	150.57
* 108 1,4-Difluorobenzene					CAS #: 540-36-3		
6.180	6.180 (1.000)	114	855175	25.0000		80.00- 120.00	100.00
6.180	6.180 (1.000)	88	133937			0.00- 45.52	15.66
* 153 Chlorobenzene-d5					CAS #: 3114-55-4		
8.619	8.619 (1.000)	117	819732	25.0000		80.00- 120.00	100.00
8.619	8.619 (1.000)	82	458641			25.46- 85.46	55.95
3 Freon 143a					CAS #: 420-46-2		
1.367	1.353 (0.259)	65	736095	200.000	184.36	80.00- 120.00	100.00
1.367	1.353 (0.259)	69	1817010			217.09- 277.09	246.84
1.367	1.353 (0.259)	64	176211			0.00- 55.87	23.94
6 Propane					CAS #: 74-98-6		
1.437	1.422 (0.272)	43	408916	200.000	187.99	80.00- 120.00	100.00

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
6 Propane (continued)							
1.437	1.422 (0.272)	39	284533			41.62- 101.62	69.58
1.437	1.422 (0.272)	41	226156			22.97- 82.97	55.31
13 Freon 142b					CAS #: 75-68-3		
1.604	1.604 (0.304)	65	2437918	200.000	192.01	80.00- 120.00	100.00
1.604	1.604 (0.304)	45	682416			0.00- 58.17	27.99
36 1-Pentene					CAS #: 109-67-1		
2.458	2.444 (0.465)	55	1580097	200.000	195.96	80.00- 120.00	100.00
2.458	2.444 (0.465)	42	2019285			99.17- 159.17	127.80
40 Freon 123a					CAS #: 354-23-4		
2.892	2.878 (0.547)	117	1818166	200.000	193.65	80.00- 120.00	100.00
2.892	2.878 (0.547)	67	2459121			103.13- 163.13	135.25
41 Freon 123					CAS #: 306-83-2		
2.990	2.976 (0.566)	83	2673564	200.000	194.15	80.00- 120.00	100.00
2.990	2.976 (0.566)	133	572215			0.00- 51.81	21.40
2.990	2.976 (0.566)	85	1774129			37.13- 97.13	66.36
55 Cyclopentene					CAS #: 142-29-0		
3.549	3.549 (0.672)	67	2877324	200.000	196.30	80.00- 120.00	100.00
3.549	3.549 (0.672)	68	1088968			7.90- 67.90	37.85
3.549	3.549 (0.672)	53	712030			0.00- 54.87	24.75
56 Methyl Acetate					CAS #: 79-20-9		
3.577	3.577 (0.677)	43	2853533	200.000	188.90	80.00- 120.00	100.00
3.577	3.577 (0.677)	74	493560			0.00- 47.15	17.30
74 Chloroprene					CAS #: 126-99-8		
4.515	4.515 (0.854)	53	2498620	200.000	195.33	80.00- 120.00	100.00
4.515	4.515 (0.854)	88	1063999			12.33- 72.33	42.58
4.515	4.515 (0.854)	50	674100			0.00- 57.62	26.98
75 1-Propanol					CAS #: 71-23-8		
4.613	4.613 (0.873)	59	347356	200.000	175.64	80.00- 120.00	100.00
4.613	4.613 (0.873)	42	296931			53.89- 113.89	85.48
4.613	4.613 (0.873)	41	186816			24.09- 84.09	53.78
88 Methyl Acrylate					CAS #: 96-33-3		
5.130	5.130 (0.971)	55	2961043	200.000	192.61	80.00- 120.00	100.00
5.130	5.130 (0.971)	85	391358			0.00- 43.24	13.22
5.130	5.130 (0.971)	58	264860			0.00- 38.83	8.94
103 Isobutanol					CAS #: 78-83-1		
5.774	5.774 (1.093)	39	404518	200.000	143.18	80.00- 120.00	100.00

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
103 Isobutanol (continued)							
5.774	5.774 (1.093)	43	1541951			327.69- 387.69	381.18
5.774	5.774 (1.093)	41	1133973			237.56- 297.56	280.33
113 Ethyl acrylate					CAS #: 140-88-5		
6.474	6.474 (0.751)	99	238652	200.000	182.18	80.00- 120.00	100.00
6.460	6.460 (0.749)	45	367576			124.67- 184.67	154.02
6.460	6.460 (0.749)	55	3959794			1601.30-1661.30	1659.23
115 2-Pentanone					CAS #: 107-87-9		
6.558	6.557 (0.761)	43	5653052	200.000	184.50	80.00- 120.00	100.00
6.558	6.557 (0.761)	58	456621			0.00- 37.25	8.08
6.558	6.557 (0.761)	86	871681			0.00- 45.08	15.42
145 Butyl Acetate					CAS #: 123-86-4		
8.068	8.068 (1.305)	56	2096069	200.000	185.93	80.00- 120.00	100.00
8.068	8.068 (1.305)	73	730739			5.16- 65.16	34.86
8.068	8.068 (1.305)	43	5054712			214.00- 274.00	241.15
157 1,1,1,2-Tetrachloroethane					CAS #: 630-20-6		
8.712	8.712 (1.011)	131	2342378	200.000	189.97	80.00- 120.00	100.00
8.712	8.712 (1.011)	117	1580451			38.22- 98.22	67.47
8.712	8.712 (1.011)	95	883866			7.54- 67.54	37.73
166 2-Heptanone					CAS #: 110-43-0		
9.221	9.221 (1.745)	58	3239163	200.000	184.88	80.00- 120.00	100.00
9.221	9.221 (1.745)	43	5150416			133.36- 193.36	159.00
172 D-Limonene					CAS #: 5989-27-5		
10.424	10.417 (1.209)	68	3016819	200.000	202.56	80.00- 120.00	100.00(A)
10.424	10.424 (1.209)	93	2188422			42.08- 102.08	72.54
186 4-Chlorotoluene					CAS #: 106-43-4		
9.973	9.973 (1.157)	126	2070941	200.000	192.94	80.00- 120.00	100.00
9.966	9.966 (1.156)	91	6921803			305.94- 365.94	334.23
9.966	9.966 (1.156)	63	912677			15.44- 75.44	44.07
197 1,2,3-Trimethylbenzene					CAS #: 526-73-8		
10.596	10.596 (1.229)	120	2929619	200.000	199.12	80.00- 120.00	100.00
10.596	10.596 (1.229)	105	6724542			206.43- 266.43	229.54
10.596	10.596 (1.229)	77	803081			0.00- 58.29	27.41
205 Hexachloroethane					CAS #: 67-72-1		
11.105	11.098 (1.288)	201	1859811	200.000	207.06	80.00- 120.00	100.00(A)
11.098	11.098 (1.288)	117	2577561			109.77- 169.77	138.59

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
208 1,3,5-Trichlorobenzene					CAS #: 108-70-3		
11.728	11.728 (1.361)	180	3928237	200.000	200.58	80.00- 120.00	100.00(A)
11.728	11.728 (1.361)	182	3720649			65.79- 125.79	94.72
210 alpha-Pinene					CAS #: 80-56-8		
9.371	9.371 (1.087)	93	4909231	200.000	193.68	80.00- 120.00	100.00
9.371	9.371 (1.087)	77	1471700			0.13- 60.13	29.98
214 beta-Pinene					CAS #: 127-91-3		
9.944	9.944 (1.154)	93	3877029	200.000	194.77	80.00- 120.00	100.00
9.966	9.966 (1.156)	91	6921803			145.95- 205.95	178.53

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd3.i
Lab File ID: 3062212.d
Lab Smp Id: ICAL Level 11
Analysis Type: VOA
Quant Type: ISTD
Operator: LD
Method File: /chem/msd3.i/22JUN21.b/321q0622a.m
Misc Info: 200ppbv (200ppbv)

Calibration Date: 22-JUN-2021
Calibration Time: 23:12
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	243405	146043	340767	238686	-1.94
108 1,4-Difluorobenze	874076	524446	1223706	855175	-2.16
153 Chlorobenzene-d5	831223	498734	1163712	819732	-1.38

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.28	4.95	5.61	5.28	0.00
108 1,4-Difluorobenze	6.18	5.85	6.51	6.18	0.00
153 Chlorobenzene-d5	8.62	8.29	8.95	8.62	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msd3.i/22JUN21.b/3062212.d

Date : 22-JUN-2021 19:03

Client ID:

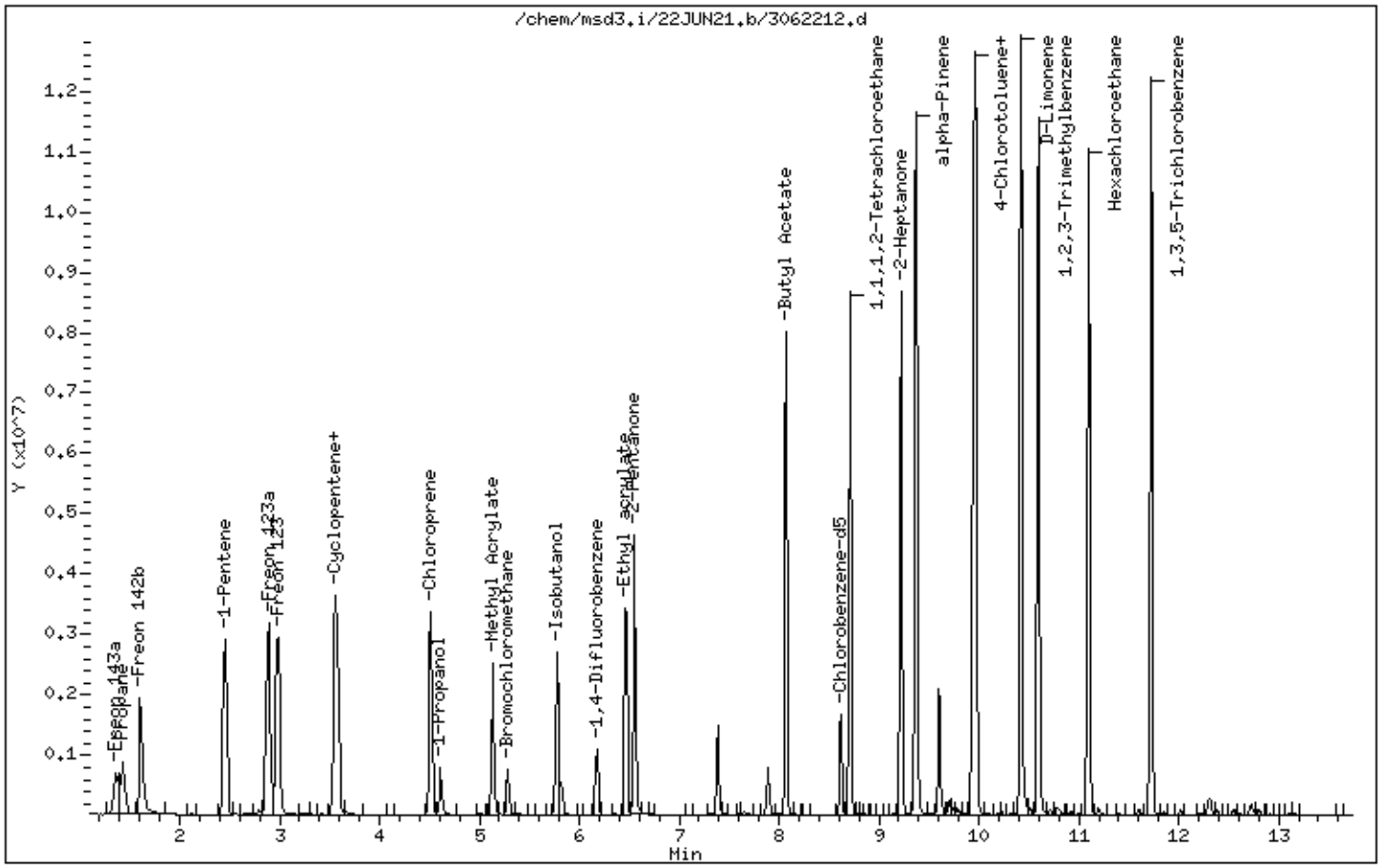
Instrument: msd3.i

Sample Info: 200mL 3018-2013

Operator: LD

Column phase: RTX-624

Column diameter: 0.25



US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msd3.i/22JUN21.b/3062223.d
Lab Smp Id: ICAL Level 11
Inj Date : 23-JUN-2021 00:09
Operator : LD Inst ID: msd3.i
Smp Info : 200mL 3018-2115
Misc Info : 200ppbv (200ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msd3.i/22JUN21.b/321q0622a.m
Meth Date : 23-Jun-2021 12:22 lk8g Quant Type: ISTD
Cal Date : 23-JUN-2021 00:09 Cal File: 3062223.d
Als bottle: 2 Calibration Sample, Level: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT20ICAL.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
4 Freon 134a					CAS #: 811-97-2		
1.409	1.395 (0.267)	83	1248422	200.000	186.97	80.00- 120.00	100.00
1.409	1.395 (0.267)	69	1149722			51.82- 111.82	92.09
1.493	1.479 (0.282)	51	4726763			194.91- 254.91	378.62
5 Propylene					CAS #: 115-07-1		
1.437	1.423 (0.272)	41	1303911	200.000	192.36	80.00- 120.00	100.00
1.437	1.423 (0.272)	42	862742			35.61- 95.61	66.17
1.437	1.423 (0.272)	39	941321			42.66- 102.66	72.19
7 1,1-Difluoroethane					CAS #: 75-37-6		
1.451	1.437 (0.275)	65	809939	200.000	183.31	80.00- 120.00	100.00
1.493	1.479 (0.282)	51	4726763			321.86- 381.86	583.59
1.465	1.437 (0.277)	47	547200			45.34- 105.34	67.56
8 Freon 12					CAS #: 75-71-8		
1.465	1.465 (0.277)	85	3426295	200.000	175.27	80.00- 120.00	100.00
1.465	1.465 (0.277)	87	1111289			2.63- 62.63	32.43
9 Chlorodifluoromethane					CAS #: 75-45-6		
1.493	1.479 (0.282)	67	376917	200.000	175.44	80.00- 120.00	100.00

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
9 Chlorodifluoromethane (continued)							
1.493	1.479 (0.282)	51	4726763			719.76- 779.76	1254.06
10 Freon 114					CAS #: 76-14-2		
1.577	1.562 (0.298)	135	2615427	200.000	180.57	80.00- 120.00	100.00
1.577	1.562 (0.298)	137	835578			2.12- 62.12	31.95
12 Isobutane					CAS #: 75-28-5		
1.591	1.576 (0.301)	43	2851832	200.000	187.19	80.00- 120.00	100.00
1.591	1.576 (0.301)	42	908644			2.44- 62.44	31.86
1.577	1.576 (0.298)	58	94650			0.00- 33.26	3.32
15 Chloromethane					CAS #: 74-87-3		
1.647	1.646 (0.312)	50	1438189	200.000	177.01	80.00- 120.00	100.00
1.647	1.646 (0.312)	52	428405			2.41- 62.41	29.79
18 Butane					CAS #: 106-97-8		
1.716	1.702 (0.325)	58	306201	200.000	159.58	80.00- 120.00	100.00
1.716	1.702 (0.325)	43	2380035			727.41- 787.41	777.28
19 Vinyl Chloride					CAS #: 75-01-4		
1.744	1.744 (0.330)	62	1437998	200.000	165.39	80.00- 120.00	100.00
1.744	1.744 (0.330)	64	435136			1.28- 61.28	30.26
20 1,3-Butadiene					CAS #: 106-99-0		
1.772	1.758 (0.335)	54	1252672	200.000	157.21	80.00- 120.00	100.00
1.772	1.758 (0.335)	39	1248954			69.23- 129.23	99.70
24 Bromomethane					CAS #: 74-83-9		
2.108	2.094 (0.399)	94	1217522	200.000	177.06	80.00- 120.00	100.00
2.108	2.094 (0.399)	96	1140143			62.78- 122.78	93.64
30 Chloroethane					CAS #: 75-00-3		
2.206	2.206 (0.417)	64	759564	200.000	186.11	80.00- 120.00	100.00
2.206	2.206 (0.417)	66	229887			1.44- 61.44	30.27
2.206	2.206 (0.417)	49	240097			4.12- 64.12	31.61
31 Isopentane					CAS #: 78-78-4		
2.220	2.220 (0.420)	43	1953607	200.000	187.18	80.00- 120.00	100.00
2.220	2.220 (0.420)	57	1353192			38.82- 98.82	69.27
32 Vinyl Bromide					CAS #: 593-60-2		
2.402	2.388 (0.455)	106	1359049	200.000	181.78	80.00- 120.00	100.00
2.402	2.388 (0.455)	108	1264813			63.14- 123.14	93.07
33 Freon 11					CAS #: 75-69-4		
2.444	2.430 (0.463)	101	3711846	200.000	179.46	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
33 Freon 11 (continued)							
2.444	2.430 (0.463)	103	2428462			35.12- 95.12	65.42
34 Dichlorofluoromethane					CAS #: 75-43-4		
2.458	2.444 (0.465)	67	3051239	200.000	184.54	80.00- 120.00	100.00
2.458	2.444 (0.465)	69	939246			0.74- 60.74	30.78
35 Pentane					CAS #: 109-66-0		
2.500	2.500 (0.473)	43	3095149	200.000	186.14	80.00- 120.00	100.00
2.500	2.500 (0.473)	57	496522			0.00- 45.97	16.04
2.500	2.500 (0.473)	72	257490			0.00- 38.10	8.32
38 Ethyl Ether					CAS #: 60-29-7		
2.794	2.780 (0.529)	74	670734	200.000	179.91	80.00- 120.00	100.00
2.794	2.780 (0.529)	59	1190553			147.68- 207.68	177.50
2.780	2.780 (0.526)	45	1586644			206.40- 266.40	236.55
39 Ethanol					CAS #: 64-17-5		
2.766	2.766 (0.523)	46	277518	200.000	165.86	80.00- 120.00	100.00
2.780	2.780 (0.526)	45	1584044			523.01- 583.01	570.79
42 Acrolein					CAS #: 107-02-8		
3.046	3.032 (0.576)	55	526592	200.000	189.65	80.00- 120.00	100.00
3.046	3.032 (0.576)	56	737600			110.33- 170.33	140.07
43 Freon 113					CAS #: 76-13-1		
3.046	3.032 (0.576)	151	2557928	200.000	180.91	80.00- 120.00	100.00
3.046	3.032 (0.576)	153	1629708			33.72- 93.72	63.71
3.046	3.032 (0.576)	101	3066258			89.67- 149.67	119.87
44 1,1-Dichloroethene					CAS #: 75-35-4		
3.074	3.074 (0.582)	96	1446563	200.000	169.86	80.00- 120.00	100.00
3.074	3.074 (0.582)	98	921828			33.39- 93.39	63.73
3.074	3.074 (0.582)	61	2754233			163.82- 223.82	190.40
47 Acetone					CAS #: 67-64-1		
3.228	3.213 (0.611)	58	837664	200.000	178.02	80.00- 120.00	100.00
3.228	3.213 (0.611)	43	2686866			299.66- 359.66	320.76
48 Carbon Disulfide					CAS #: 75-15-0		
3.312	3.297 (0.627)	76	3962561	200.000	187.01	80.00- 120.00	100.00
49 Iodomethane					CAS #: 74-88-4		
3.284	3.269 (0.621)	142	3459520	200.000	188.81	80.00- 120.00	100.00
3.284	3.269 (0.621)	127	1527438			14.58- 74.58	44.15

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
52 2-Propanol						CAS #: 67-63-0	
3.409	3.395 (0.645)	45	3168063	200.000	187.21	80.00- 120.00	100.00
3.409	3.395 (0.645)	43	578653			0.00- 48.61	18.27
54 3-Chloropropene						CAS #: 107-05-1	
3.549	3.535 (0.672)	76	665132	200.000	182.33	80.00- 120.00	100.00
3.549	3.535 (0.672)	41	2336930			338.06- 398.06	351.35
57 Acetonitrile						CAS #: 75-05-8	
3.647	3.633 (0.690)	41	1434382	200.000	193.58	80.00- 120.00	100.00
3.647	3.633 (0.690)	40	735330			21.81- 81.81	51.26
3.647	3.633 (0.690)	38	161098			0.00- 41.86	11.23
59 Methylene Chloride						CAS #: 75-09-2	
3.731	3.717 (0.706)	49	2082765	200.000	184.95	80.00- 120.00	100.00
3.731	3.717 (0.706)	84	1258942			30.77- 90.77	60.45
3.731	3.717 (0.706)	51	640889			1.39- 61.39	30.77
62 tert-Butyl alcohol						CAS #: 75-65-0	
3.857	3.857 (0.730)	59	3975050	200.000	187.14	80.00- 120.00	100.00
3.857	3.857 (0.730)	41	826780			0.00- 51.05	20.80
3.857	3.857 (0.730)	57	422561			0.00- 41.68	10.63
63 Methyl tert-butyl ether						CAS #: 1634-04-4	
3.941	3.941 (0.746)	73	4138145	200.000	180.50	80.00- 120.00	100.00
3.941	3.941 (0.746)	57	1251638			0.00- 58.86	30.25
3.941	3.941 (0.746)	41	1110563			0.00- 57.27	26.84
64 trans-1,2-Dichloroethene						CAS #: 156-60-5	
3.969	3.969 (0.751)	98	969712	200.000	169.20	80.00- 120.00	100.00
3.969	3.969 (0.751)	61	2604019			244.59- 304.59	268.54
3.969	3.969 (0.751)	96	1524600			129.84- 189.84	157.22
66 Acrylonitrile						CAS #: 107-13-1	
4.067	4.067 (0.770)	52	1162022	200.000	168.94	80.00- 120.00	100.00
4.067	4.067 (0.770)	53	1354428			88.50- 148.50	116.56
67 Hexane						CAS #: 110-54-3	
4.179	4.179 (0.791)	57	2942768	200.000	189.37	80.00- 120.00	100.00
4.179	4.179 (0.791)	43	1830463			32.99- 92.99	62.20
4.179	4.179 (0.791)	86	357479			0.00- 42.56	12.15
71 1,1-Dichloroethane						CAS #: 75-34-3	
4.459	4.459 (0.844)	63	2931915	200.000	183.46	80.00- 120.00	100.00
4.459	4.459 (0.844)	65	896339			0.76- 60.76	30.57

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
72 Isopropyl ether					CAS #: 108-20-3		
4.445	4.445 (0.841)	45	6207613	200.000	189.28	80.00- 120.00	100.00
4.445	4.445 (0.841)	87	1358337			0.00- 51.37	21.88
4.445	4.445 (0.841)	59	701959			0.00- 41.09	11.31
73 Vinyl Acetate					CAS #: 108-05-4		
4.501	4.501 (0.852)	86	375695	200.000	191.21	80.00- 120.00	100.00
4.501	4.501 (0.852)	43	5279652			1391.63-1451.63	1405.30
79 Ethyl-tert-butyl ether					CAS #: 637-92-3		
4.809	4.809 (0.910)	59	5999639	200.000	189.50	80.00- 120.00	100.00
4.809	4.809 (0.910)	87	2013318			3.22- 63.22	33.56
4.809	4.809 (0.910)	41	1083834			0.00- 48.12	18.06
84 2,2-Dichloropropane					CAS #: 594-20-7		
5.005	5.004 (0.947)	77	2776414	200.000	186.48	80.00- 120.00	100.00
5.005	5.004 (0.947)	79	898403			2.00- 62.00	32.36
5.005	5.004 (0.947)	97	660944			0.00- 53.36	23.81
85 cis-1,2-Dichloroethene					CAS #: 156-59-2		
5.047	5.046 (0.955)	98	1007295	200.000	177.30	80.00- 120.00	100.00
5.047	5.046 (0.955)	96	1561663			127.22- 187.22	155.04
5.047	5.046 (0.955)	61	3116398			283.85- 343.85	309.38
86 2-Butanone					CAS #: 78-93-3		
5.061	5.074 (0.958)	72	752204	200.000	189.55	80.00- 120.00	100.00
5.075	5.074 (0.960)	43	7965323			1055.75-1115.75	1058.93
5.061	5.074 (0.958)	57	303494			10.59- 70.59	40.35
87 Ethyl Acetate					CAS #: 141-78-6		
5.089	5.088 (0.963)	45	647543	200.000	197.94	80.00- 120.00	100.00
5.047	5.046 (0.955)	61	3116398			450.31- 510.31	481.27
5.089	5.088 (0.963)	70	398005			30.42- 90.42	61.46
89 Tetrahydrofuran					CAS #: 109-99-9		
5.270	5.270 (0.997)	42	2133956	200.000	190.70	80.00- 120.00	100.00
5.270	5.270 (0.997)	71	683656			2.92- 62.92	32.04
5.270	5.270 (0.997)	72	713970			3.54- 63.54	33.46
* 90 Bromochloromethane					CAS #: 74-97-5		
5.284	5.284 (1.000)	130	280621	25.0000		80.00- 120.00	100.00
5.284	5.284 (1.000)	128	221732			48.46- 108.46	79.01
5.284	5.270 (1.000)	49	420383			120.39- 180.39	149.80
92 Chloroform					CAS #: 67-66-3		
5.340	5.340 (1.011)	83	3231224	200.000	183.65	80.00- 120.00	100.00

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
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92 Chloroform (continued)							
5.340	5.340 (1.011)	85	2099027			34.71- 94.71	64.96
94 Cyclohexane					CAS #: 110-82-7		
5.438	5.438 (1.029)	84	2003099	200.000	180.12	80.00- 120.00	100.00
5.438	5.438 (1.029)	56	3006241			120.40- 180.40	150.08
5.438	5.438 (1.029)	41	1654291			54.20- 114.20	82.59
96 1,1,1-Trichloroethane					CAS #: 71-55-6		
5.466	5.466 (1.034)	97	3390242	200.000	171.43	80.00- 120.00	100.00
5.466	5.466 (1.034)	99	2171642			33.76- 93.76	64.06
97 Carbon Tetrachloride					CAS #: 56-23-5		
5.578	5.578 (1.056)	119	3504381	200.000	192.40	80.00- 120.00	100.00
5.578	5.578 (1.056)	117	3650955			73.68- 133.68	104.18
99 1,1-Dichloropropene					CAS #: 563-58-6		
5.606	5.606 (0.907)	110	871622	200.000	185.92	80.00- 120.00	100.00
5.606	5.606 (0.907)	75	2259954			231.09- 291.09	259.28
101 2,2,4-Trimethylpentane					CAS #: 540-84-1		
5.760	5.774 (1.090)	57	9184710	200.000	189.00	80.00- 120.00	100.00
5.760	5.774 (1.090)	56	2853004			1.12- 61.12	31.06
5.760	5.774 (1.090)	41	2495514			0.00- 57.49	27.17
102 Benzene					CAS #: 71-43-2		
5.788	5.788 (0.937)	78	4310366	200.000	183.36	80.00- 120.00	100.00
5.788	5.788 (0.937)	77	1029979			0.00- 53.80	23.90
$ 104 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
5.816	5.816 (1.101)	65	365121	25.0000	23.643	80.00- 120.00	100.00
5.816	5.816 (1.101)	67	213543			21.66- 81.66	58.49
105 tert-Amyl methyl ether					CAS #: 994-05-8		
5.858	5.858 (0.948)	87	1171898	200.000	186.96	80.00- 120.00	100.00
5.858	5.858 (0.948)	73	4600758			365.20- 425.20	392.59
5.858	5.858 (0.948)	55	1389945			91.31- 151.31	118.61
106 1,2-Dichloroethane					CAS #: 107-06-2		
5.886	5.886 (0.952)	62	2425778	200.000	179.23	80.00- 120.00	100.00
5.886	5.886 (0.952)	64	763575			1.20- 61.20	31.48
107 Heptane					CAS #: 142-82-5		
5.942	5.942 (0.962)	71	1600316	200.000	172.83	80.00- 120.00	100.00
5.942	5.942 (0.962)	43	3358124			179.02- 239.02	209.84
5.942	5.942 (0.962)	57	1864974			84.85- 144.85	116.54

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 108 1,4-Difluorobenzene					CAS #: 540-36-3		
6.180	6.180 (1.000)	114	1030162	25.0000		80.00- 120.00	100.00
6.166	6.180 (1.000)	88	156599			0.00- 45.52	15.20
110 n-Butanol					CAS #: 71-36-3		
6.348	6.348 (1.027)	56	1454858	200.000	193.08	80.00- 120.00	100.00
6.348	6.348 (1.027)	41	1016569			40.21- 100.21	69.87
6.348	6.348 (1.027)	43	800851			25.00- 85.00	55.05
111 Trichloroethene					CAS #: 79-01-6		
6.362	6.362 (1.029)	95	2154997	200.000	182.73	80.00- 120.00	100.00
6.362	6.362 (1.029)	130	2276279			74.96- 134.96	105.63
6.362	6.362 (1.029)	97	1394870			34.80- 94.80	64.73
114 1,2-Dichloropropane					CAS #: 78-87-5		
6.586	6.586 (1.066)	63	707267	200.000	129.79	80.00- 120.00	100.00
6.586	6.586 (1.066)	62	498517			52.03- 112.03	70.48
6.586	6.586 (1.066)	41	791037			79.97- 139.97	111.84
116 Methyl Methacrylate					CAS #: 80-62-6		
6.664	6.664 (0.774)	69	1732766	200.000	185.90	80.00- 120.00	100.00
6.664	6.664 (0.774)	41	2771921			134.02- 194.02	159.97
6.664	6.664 (0.774)	100	689459			9.54- 69.54	39.79
117 1,4-Dioxane					CAS #: 123-91-1		
6.692	6.699 (1.083)	88	1116627	200.000	187.51	80.00- 120.00	100.00
6.692	6.699 (1.083)	58	970635			55.80- 115.80	86.93
6.692	6.699 (1.083)	57	401009			8.68- 68.68	35.91
118 Dibromomethane					CAS #: 74-95-3		
6.721	6.721 (0.780)	174	1973983	200.000	190.16	80.00- 120.00	100.00
6.714	6.721 (0.780)	93	1896487			67.27- 127.27	96.07
6.714	6.721 (0.780)	95	1584974			50.92- 110.92	80.29
122 Bromodichloromethane					CAS #: 75-27-4		
6.836	6.836 (1.106)	83	3511830	200.000	177.75	80.00- 120.00	100.00
6.836	6.836 (1.106)	85	2273528			34.31- 94.31	64.74
126 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.208	7.208 (1.166)	75	2753100	200.000	187.48	80.00- 120.00	100.00
7.208	7.208 (1.166)	77	882386			1.42- 61.42	32.05
7.208	7.208 (1.166)	39	1880986			38.56- 98.56	68.32
127 Methylcyclohexane					CAS #: 108-87-2		
6.460	6.460 (1.045)	83	2754207	200.000	174.64	80.00- 120.00	100.00
6.460	6.460 (1.045)	98	1262828			15.60- 75.60	45.85

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
127 Methylcyclohexane (continued)							
6.460	6.460 (1.045)	55	3106460			78.53- 138.53	112.79
131 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.316	7.316 (1.184)	58	1786119	200.000	178.88	80.00- 120.00	100.00
7.316	7.316 (1.184)	43	4615020			231.30- 291.30	258.38
7.316	7.316 (1.184)	85	675752			8.94- 68.94	37.83
$ 134 Toluene-d8					CAS #: 2037-26-5		
7.387	7.387 (1.195)	98	1046502	25.0000	24.664	80.00- 120.00	100.00
7.387	7.387 (1.195)	70	117636			0.00- 41.47	11.24
7.387	7.387 (1.195)	100	699156			36.47- 96.47	66.81
137 Toluene					CAS #: 108-88-3		
7.437	7.437 (1.203)	91	5725161	200.000	181.50	80.00- 120.00	100.00
7.437	7.437 (1.203)	92	3388088			28.30- 88.30	59.18
136 Octane					CAS #: 111-65-9		
7.445	7.444 (1.205)	57	1941160	200.000	184.97	80.00- 120.00	100.00
7.445	7.444 (1.205)	85	1885654			67.11- 127.11	97.14
7.445	7.444 (1.205)	43	4613237			214.21- 274.21	237.65
139 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
7.688	7.688 (0.893)	75	2690414	200.000	188.60	80.00- 120.00	100.00
7.688	7.688 (0.893)	77	860699			2.15- 62.15	31.99
7.688	7.688 (0.893)	39	1729052			36.09- 96.09	64.27
141 1,1,2-Trichloroethane					CAS #: 79-00-5		
7.846	7.846 (0.911)	97	2005268	200.000	182.79	80.00- 120.00	100.00
7.846	7.846 (0.911)	99	1245924			31.62- 91.62	62.13
7.846	7.846 (0.911)	83	1746685			56.35- 116.35	87.10
142 Tetrachloroethene					CAS #: 127-18-4		
7.881	7.881 (0.915)	166	2846291	200.000	187.59	80.00- 120.00	100.00
7.881	7.881 (0.915)	129	2242287			48.71- 108.71	78.78
7.881	7.881 (0.915)	131	2176960			46.55- 106.55	76.48
143 2-Hexanone					CAS #: 591-78-6		
8.003	8.003 (0.929)	58	2423064	200.000	192.29	80.00- 120.00	100.00
8.003	8.003 (0.929)	43	4499303			157.91- 217.91	185.69
8.003	8.003 (0.929)	100	434674			0.00- 47.86	17.94
144 1,3-Dichloropropane					CAS #: 142-28-9		
7.989	7.989 (1.293)	76	2724813	200.000	181.06	80.00- 120.00	100.00
7.989	7.989 (1.293)	41	3071294			82.96- 142.96	112.72
7.989	7.989 (1.293)	78	895221			2.55- 62.55	32.85

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
146 Dibromochloromethane						CAS #: 124-48-1	
8.154	8.154 (0.947)	129	4009938	200.000	192.67	80.00- 120.00	100.00
8.154	8.154 (0.947)	127	3128882			47.77- 107.77	78.03
148 1,2-Dibromoethane (EDB)						CAS #: 106-93-4	
8.261	8.268 (0.959)	107	3220648	200.000	189.04	80.00- 120.00	100.00
8.261	8.268 (0.959)	109	3039854			64.60- 124.60	94.39
151 1-Bromo-2-Chloroethane						CAS #: 107-04-0	
7.115	7.115 (1.151)	63	3623818	200.000	190.06	80.00- 120.00	100.00
7.115	7.115 (1.151)	65	1124304			0.95- 60.95	31.03
7.122	7.122 (1.152)	144	384041			0.00- 40.45	10.60
* 153 Chlorobenzene-d5						CAS #: 3114-55-4	
8.612	8.619 (1.000)	117	968526	25.0000		80.00- 120.00	100.00
8.612	8.619 (1.000)	82	534124			25.46- 85.46	55.15
154 Chlorobenzene						CAS #: 108-90-7	
8.641	8.641 (1.003)	112	4789428	200.000	180.93	80.00- 120.00	100.00
8.641	8.641 (1.003)	114	1559401			2.13- 62.13	32.56
8.641	8.641 (1.003)	77	2694421			26.35- 86.35	56.26
155 Ethyl Benzene						CAS #: 100-41-4	
8.684	8.684 (1.008)	106	2466472	200.000	186.34	80.00- 120.00	100.00
8.684	8.684 (1.008)	91	7515848			282.48- 342.48	304.72
156 Nonane						CAS #: 111-84-2	
8.705	8.705 (1.011)	43	4684239	200.000	182.58	80.00- 120.00	100.00
8.705	8.705 (1.011)	57	4249274			59.52- 119.52	90.71
8.705	8.705 (1.011)	85	1368284			0.00- 59.76	29.21
158 m,p-Xylene						CAS #: 108-38-3	
8.784	8.784 (1.020)	106	3054787	200.000	185.51	80.00- 120.00	100.00
8.784	8.784 (1.020)	91	6087484			171.36- 231.36	199.28
164 o-Xylene						CAS #: 95-47-6	
9.121	9.128 (1.059)	106	2940706	200.000	188.11	80.00- 120.00	100.00
9.121	9.128 (1.059)	91	6120254			179.99- 239.99	208.12
165 Styrene						CAS #: 100-42-5	
9.149	9.149 (1.062)	104	5129048	200.000	189.37	80.00- 120.00	100.00
9.142	9.149 (1.062)	78	2527067			19.09- 79.09	49.27
167 Bromoform						CAS #: 75-25-2	
9.350	9.350 (1.086)	173	3869043	200.000	196.05	80.00- 120.00	100.00
9.350	9.350 (1.086)	171	2017665			21.45- 81.45	52.15

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
168 Cumene						CAS #: 98-82-8	
9.414	9.414 (1.093)	105	8856968	200.000	179.20	80.00- 120.00	100.00
9.414	9.414 (1.093)	120	2474357			0.00- 56.99	27.94
9.407	9.407 (1.092)	51	1059754			0.00- 41.77	11.97
169 Cyclohexanone						CAS #: 108-94-1	
9.579	9.579 (1.112)	55	2761472	200.000	177.54	80.00- 120.00	100.00
9.579	9.579 (1.112)	98	1065852			9.22- 69.22	38.60
9.579	9.579 (1.112)	42	1967492			42.60- 102.60	71.25
$ 170 4-Bromofluorobenzene						CAS #: 460-00-4	
9.601	9.601 (1.115)	174	640376	25.0000	24.997	80.00- 120.00	100.00
9.601	9.601 (1.115)	95	797484			93.06- 153.06	124.53
9.601	9.601 (1.115)	176	605747			62.87- 122.87	94.59
175 1,1,2,2-Tetrachloroethane						CAS #: 79-34-5	
9.737	9.737 (1.131)	83	4422270	200.000	180.46	80.00- 120.00	100.00
9.737	9.737 (1.131)	85	2877992			34.35- 94.35	65.08
177 Bromobenzene						CAS #: 108-86-1	
9.730	9.729 (1.130)	156	2908112	200.000	189.27	80.00- 120.00	100.00
9.730	9.737 (1.130)	158	2812927			67.29- 127.29	96.73
9.730	9.729 (1.130)	77	4663366			132.41- 192.41	160.36
178 Propylbenzene						CAS #: 103-65-1	
9.758	9.758 (1.133)	91	10270460	200.000	178.09	80.00- 120.00	100.00
9.758	9.758 (1.133)	120	2524198			0.00- 53.77	24.58
9.758	9.758 (1.133)	105	406300			0.00- 33.81	3.96
179 1,2,3-Trichloropropane						CAS #: 96-18-4	
9.787	9.787 (1.136)	110	1357894	200.000	183.95	80.00- 120.00	100.00
9.787	9.787 (1.136)	75	4261505			285.00- 345.00	313.83
9.787	9.787 (1.136)	61	1147024			54.06- 114.06	84.47
181 trans-1,4-Dichloro-2-butene						CAS #: 110-57-6	
9.787	9.787 (1.136)	53	1061786	200.000	181.78	80.00- 120.00	100.00
9.787	9.787 (1.136)	89	556074			21.19- 81.19	52.37
9.787	9.787 (1.136)	75	4261505			372.45- 432.45	401.35
182 Decane						CAS #: 124-18-5	
9.808	9.808 (1.139)	57	5394837	200.000	180.91	80.00- 120.00	100.00
9.808	9.808 (1.139)	71	1811637			4.13- 64.13	33.58
9.816	9.815 (1.140)	142	252871			0.00- 34.73	4.69
183 4-Ethyltoluene						CAS #: 622-96-8	
9.851	9.851 (1.144)	120	2748666	200.000	183.87	80.00- 120.00	100.00

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE		RATIO
==	====== ========	====	========	=======	=======	==========		=====
183 4-Ethyltoluene (continued)								
9.851	9.851 (1.144)	105	8951786			296.79- 356.79		325.68
184 2-Chlorotoluene					CAS #: 95-49-8			
9.873	9.873 (1.146)	126	2280030	200.000	187.71	80.00- 120.00		100.00
9.873	9.873 (1.146)	91	8187497			336.29- 396.29		359.10
9.873	9.873 (1.146)	65	1552268			38.83- 98.83		68.08
185 1,3,5-Trimethylbenzene					CAS #: 108-67-8			
9.901	9.901 (1.150)	120	3893688	200.000	185.45	80.00- 120.00		100.00
9.901	9.901 (1.150)	105	7694703			176.40- 236.40		197.62
188 alpha Methyl Styrene					CAS #: 98-83-9			
10.102	10.102 (1.173)	118	4131575	200.000	192.13	80.00- 120.00		100.00
10.102	10.102 (1.173)	103	2350391			26.64- 86.64		56.89
189 tert-Butylbenzene					CAS #: 98-06-6			
10.174	10.174 (1.181)	119	7168687	200.000	185.56	80.00- 120.00		100.00
10.174	10.174 (1.181)	134	1814326			0.00- 54.82		25.31
10.174	10.174 (1.181)	91	4712707			36.92- 96.92		65.74
190 1,2,4-Trimethylbenzene					CAS #: 95-63-6			
10.224	10.224 (1.187)	105	7574431	200.000	182.95	80.00- 120.00		100.00
10.224	10.224 (1.187)	120	3624792			16.58- 76.58		47.86
192 sec-Butylbenzene					CAS #: 135-98-8			
10.360	10.360 (1.203)	134	2316459	200.000	185.64	80.00- 120.00		100.00
10.360	10.360 (1.203)	105	10717996			451.53- 511.53		462.69
10.360	10.353 (1.203)	91	1750377			46.48- 106.48		75.56
194 p-Cymene					CAS #: 99-87-6			
10.467	10.467 (1.215)	119	9518485	200.000	182.15	80.00- 120.00		100.00
10.467	10.467 (1.215)	134	2670560			0.00- 56.79		28.06
10.467	10.467 (1.215)	91	2378503			0.00- 54.04		24.99
195 1,3-Dichlorobenzene					CAS #: 541-73-1			
10.517	10.517 (1.221)	146	5324302	200.000	189.29	80.00- 120.00		100.00
10.517	10.517 (1.221)	148	3428685			33.53- 93.53		64.40
10.517	10.517 (1.221)	111	2249453			11.05- 71.05		42.25
196 1,4-Dichlorobenzene					CAS #: 106-46-7			
10.596	10.596 (1.230)	146	5387311	200.000	185.94	80.00- 120.00		100.00
10.596	10.596 (1.230)	148	3449292			33.47- 93.47		64.03
10.596	10.596 (1.230)	111	2177041			9.65- 69.65		40.41
199 alpha-Chlorotoluene					CAS #: 100-44-7			
10.711	10.711 (1.244)	91	7588758	200.000	190.50	80.00- 120.00		100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
199 alpha-Chlorotoluene (continued)							
10.711	10.711 (1.244)	126	1728896			0.00- 52.04	22.78
201 Undecane					CAS #: 1120-21-4		
10.804	10.804 (1.254)	57	6455210	200.000	183.70	80.00- 120.00	100.00
10.804	10.804 (1.254)	43	5437451			55.86- 115.86	84.23
202 Butylbenzene					CAS #: 104-51-8		
10.818	10.818 (1.256)	134	2566869	200.000	189.45	80.00- 120.00	100.00
10.818	10.818 (1.256)	91	8905405			331.99- 391.99	346.94
10.818	10.818 (1.256)	92	4849144			161.01- 221.01	188.91
204 1,2-Dichlorobenzene					CAS #: 95-50-1		
10.926	10.926 (1.269)	146	5152127	200.000	189.55	80.00- 120.00	100.00
10.926	10.926 (1.269)	148	3295260			33.23- 93.23	63.96
10.919	10.918 (1.268)	111	2226669			12.36- 72.36	43.22
206 1,2-Dibromo-3-chloropropane					CAS #: 96-12-8		
11.606	11.606 (1.348)	157	3008551	200.000	190.89	80.00- 120.00	100.00
11.599	11.599 (1.347)	75	2640903			58.96- 118.96	87.78
11.606	11.606 (1.348)	155	2340600			47.82- 107.82	77.80
207 Dodecane					CAS #: 112-40-3		
11.714	11.714 (1.360)	57	6858381	247.200	230.81	80.00- 120.00	100.00(A)
11.714	11.714 (1.360)	43	5511292			50.85- 110.85	80.36
213 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
12.301	12.301 (1.428)	180	4542514	251.800	235.29	80.00- 120.00	100.00(A)
12.301	12.301 (1.428)	182	4306455			65.40- 125.40	94.80
215 Hexachlorobutadiene					CAS #: 87-68-3		
12.387	12.387 (1.438)	225	3480322	257.400	238.65	80.00- 120.00	100.00(A)
12.387	12.387 (1.438)	223	2234146			33.70- 93.70	64.19
216 Naphthalene					CAS #: 91-20-3		
12.552	12.552 (1.457)	128	1217286	25.4000	20.648	80.00- 120.00	100.00
12.552	12.552 (1.457)	127	160451			0.00- 43.10	13.18
222 1,2,3-Trichlorobenzene					CAS #: 87-61-6		
12.803	12.802 (1.487)	180	4317164	266.200	244.37	80.00- 120.00	100.00(A)
12.803	12.802 (1.487)	182	4109388			65.67- 125.67	95.19
12.803	12.802 (1.487)	145	1586688			6.02- 66.02	36.75

QC Flag Legend

A - Target compound detected but, quantitated amount
exceeded maximum amount.

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd3.i
Lab File ID: 3062223.d
Lab Smp Id: ICAL Level 11
Analysis Type: VOA
Quant Type: ISTD
Operator: LD
Method File: /chem/msd3.i/22JUN21.b/321q0622a.m
Misc Info: 200ppbv (200ppbv)

Calibration Date: 22-JUN-2021
Calibration Time: 23:12
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	243405	146043	340767	280621	15.29
108 1,4-Difluorobenze	874076	524446	1223706	1030162	17.86
153 Chlorobenzene-d5	831223	498734	1163712	968526	16.52

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.28	4.95	5.61	5.28	0.00
108 1,4-Difluorobenze	6.18	5.85	6.51	6.18	0.00
153 Chlorobenzene-d5	8.62	8.29	8.95	8.61	-0.08

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msd3.i/22JUN21.b/3062223.d

Date : 23-JUN-2021 00:09

Client ID:

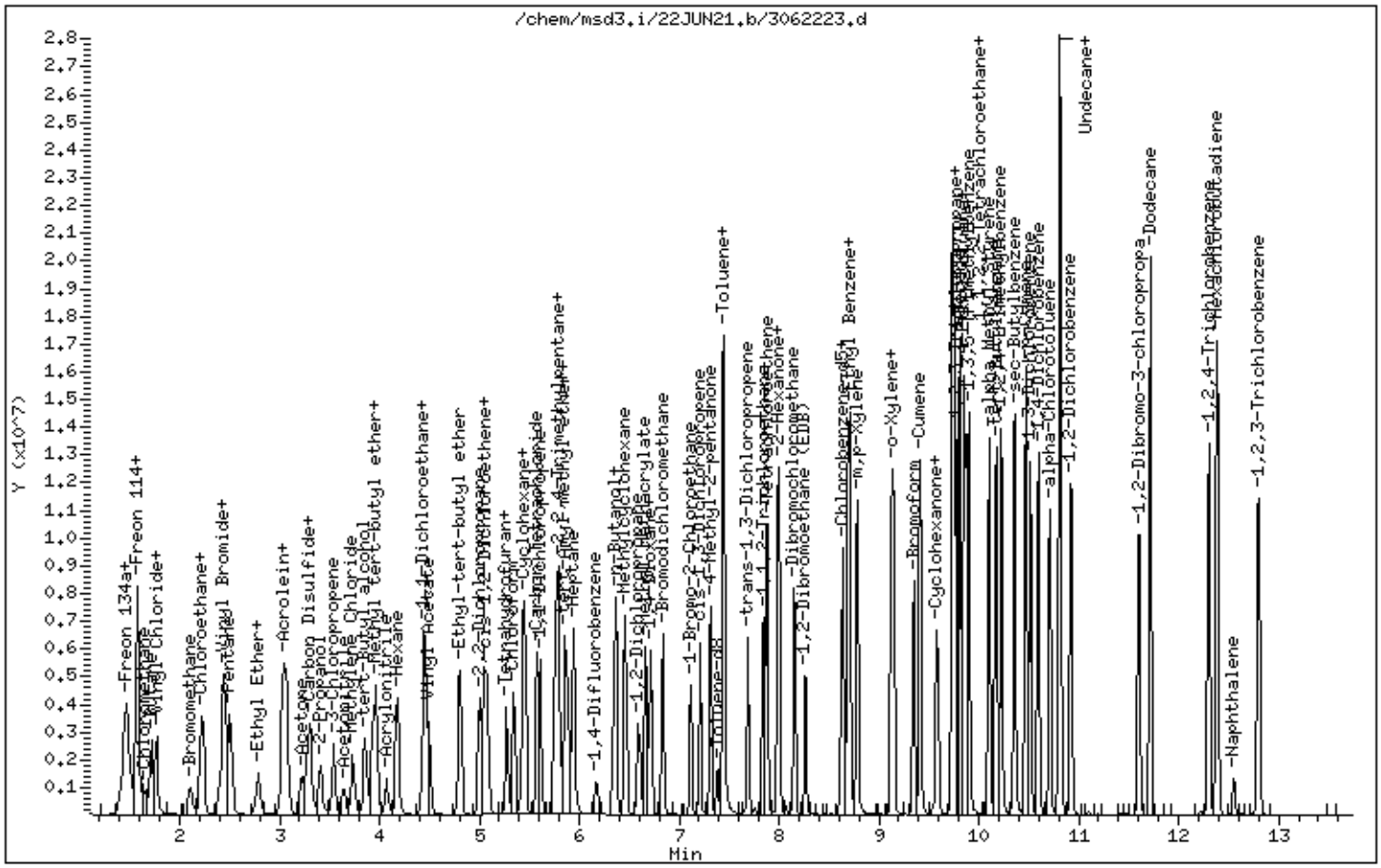
Instrument: msd3.i

Sample Info: 200mL 3018-2115

Operator: LD

Column phase: RTX-624

Column diameter: 0.25



US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msd3.i/22JUN21.b/3062226.d
Lab Smp Id: ICV Client Smp ID: ICV
Inj Date : 23-JUN-2021 09:45
Operator : LD Inst ID: msd3.i
Smp Info : 50mL 3018-2121
Misc Info : 50ppbv (200ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msd3.i/22JUN21.b/321q0622a.m
Meth Date : 23-Jun-2021 11:20 lk8g Quant Type: ISTD
Cal Date : 23-JUN-2021 00:09 Cal File: 3062223.d
Als bottle: 14 QC Sample: ICV
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT20LCS_new.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE		(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 90 Bromochloromethane							CAS #: 74-97-5	
5.284	5.284 (1.000)	130	230839	25.0000			80.00- 120.00	100.00
5.284	5.284 (1.000)	128	179182				48.46- 108.46	77.62
5.270	5.270 (1.000)	49	344686				120.39- 180.39	149.32
* 108 1,4-Difluorobenzene							CAS #: 540-36-3	
6.180	6.180 (1.000)	114	830933	25.0000			80.00- 120.00	100.00
6.166	6.180 (1.000)	88	129192				0.00- 45.52	15.55
* 153 Chlorobenzene-d5							CAS #: 3114-55-4	
8.619	8.619 (1.000)	117	786155	25.0000			80.00- 120.00	100.00
8.612	8.619 (1.000)	82	431570				25.46- 85.46	54.90
$ 104 1,2-Dichloroethane-d4							CAS #: 17060-07-0	
5.816	5.816 (1.101)	65	307921	24.2394		24.239	80.00- 120.00	100.00
5.816	5.816 (1.101)	67	157280				21.66- 81.66	51.08
$ 134 Toluene-d8							CAS #: 2037-26-5	
7.387	7.387 (1.195)	98	848994	24.8065		24.806	80.00- 120.00	100.00
7.387	7.387 (1.195)	70	98028				0.00- 41.47	11.55

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 134 Toluene-d8 (continued)							
7.387	7.387 (1.195)	100	567231			36.47- 96.47	66.81
$ 170 4-Bromofluorobenzene					CAS #: 460-00-4		
9.601	9.601 (1.114)	174	514712	24.7527	24.753	80.00- 120.00	100.00
9.601	9.601 (1.114)	95	638497			93.06- 153.06	124.05
9.601	9.601 (1.114)	176	486174			62.87- 122.87	94.46
4 Freon 134a					CAS #: 811-97-2		
1.395	1.395 (0.264)	83	276653	50.3672	50.367	80.00- 120.00	100.00
1.395	1.395 (0.264)	69	237465			51.82- 111.82	85.83
1.479	1.479 (0.280)	51	652737			194.91- 254.91	235.94
5 Propylene					CAS #: 115-07-1		
1.423	1.423 (0.269)	41	265441	47.6056	47.606	80.00- 120.00	100.00
1.423	1.423 (0.269)	42	180339			35.61- 95.61	67.94
1.423	1.423 (0.269)	39	191086			42.66- 102.66	71.99
7 1,1-Difluoroethane					CAS #: 75-37-6		
1.437	1.437 (0.272)	65	181412	49.9119	49.912	80.00- 120.00	100.00
1.479	1.479 (0.280)	51	652737			321.86- 381.86	359.81
1.437	1.437 (0.272)	47	116541			45.34- 105.34	64.24
8 Freon 12					CAS #: 75-71-8		
1.451	1.465 (0.275)	85	746394	46.4159	46.416	80.00- 120.00	100.00
1.451	1.465 (0.275)	87	242142			2.63- 62.63	32.44
9 Chlorodifluoromethane					CAS #: 75-45-6		
1.479	1.479 (0.280)	67	73808	41.7626	41.762	80.00- 120.00	100.00
1.479	1.479 (0.280)	51	652737			719.76- 779.76	884.37
10 Freon 114					CAS #: 76-14-2		
1.563	1.562 (0.296)	135	585845	49.1686	49.168	80.00- 120.00	100.00
1.563	1.562 (0.296)	137	187786			2.12- 62.12	32.05
12 Isobutane					CAS #: 75-28-5		
1.577	1.576 (0.298)	43	609350	48.5739	48.574	80.00- 120.00	100.00
1.577	1.576 (0.298)	42	198445			2.44- 62.44	32.57
1.577	1.576 (0.298)	58	20678			0.00- 33.26	3.39
15 Chloromethane					CAS #: 74-87-3		
1.633	1.646 (0.309)	50	303441	45.4010	45.401	80.00- 120.00	100.00
1.633	1.646 (0.309)	52	103286			2.41- 62.41	34.04
18 Butane					CAS #: 106-97-8		
1.702	1.702 (0.322)	58	63208	40.0457	40.046	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
18 Butane (continued)							
1.702	1.702 (0.322)	43	477397			727.41- 787.41	755.28
19 Vinyl Chloride					CAS #: 75-01-4		
1.730	1.744 (0.327)	62	296122	41.4035	41.404	80.00- 120.00	100.00
1.730	1.744 (0.327)	64	92690			1.28- 61.28	31.30
20 1,3-Butadiene					CAS #: 106-99-0		
1.758	1.758 (0.333)	54	263401	40.1855	40.185	80.00- 120.00	100.00
1.758	1.758 (0.333)	39	247265			69.23- 129.23	93.87
24 Bromomethane					CAS #: 74-83-9		
2.094	2.094 (0.396)	94	261180	46.1739	46.174	80.00- 120.00	100.00
2.094	2.094 (0.396)	96	245228			62.78- 122.78	93.89
30 Chloroethane					CAS #: 75-00-3		
2.192	2.206 (0.415)	64	163745	48.7725	48.772	80.00- 120.00	100.00
2.192	2.206 (0.415)	66	52790			1.44- 61.44	32.24
2.192	2.206 (0.415)	49	54045			4.12- 64.12	33.01
31 Isopentane					CAS #: 78-78-4		
2.220	2.220 (0.420)	43	412845	48.0872	48.087	80.00- 120.00	100.00
2.220	2.220 (0.420)	57	288174			38.82- 98.82	69.80
32 Vinyl Bromide					CAS #: 593-60-2		
2.388	2.388 (0.452)	106	294472	47.8819	47.882	80.00- 120.00	100.00
2.388	2.388 (0.452)	108	270982			63.14- 123.14	92.02
33 Freon 11					CAS #: 75-69-4		
2.430	2.430 (0.460)	101	801961	47.1350	47.135	80.00- 120.00	100.00
2.430	2.430 (0.460)	103	525485			35.12- 95.12	65.53
34 Dichlorofluoromethane					CAS #: 75-43-4		
2.444	2.444 (0.463)	67	668886	49.1789	49.179	80.00- 120.00	100.00
2.444	2.444 (0.463)	69	205287			0.74- 60.74	30.69
35 Pentane					CAS #: 109-66-0		
2.500	2.500 (0.473)	43	636532	46.5367	46.537	80.00- 120.00	100.00
2.500	2.500 (0.473)	57	102112			0.00- 45.97	16.04
2.500	2.500 (0.473)	72	54671			0.00- 38.10	8.59
38 Ethyl Ether					CAS #: 60-29-7		
2.780	2.780 (0.526)	74	148680	48.4815	48.481	80.00- 120.00	100.00
2.780	2.780 (0.526)	59	261727			147.68- 207.68	176.03
2.780	2.780 (0.526)	45	348533			206.40- 266.40	234.42

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
39 Ethanol					CAS #: 64-17-5		
2.752	2.766 (0.521)	46	64671	46.9856	46.986	80.00- 120.00	100.00
2.780	2.780 (0.526)	45	348533			523.01- 583.01	538.93
42 Acrolein					CAS #: 107-02-8		
3.032	3.032 (0.574)	55	119957	52.5183	52.518	80.00- 120.00	100.00
3.032	3.032 (0.574)	56	170363			110.33- 170.33	142.02
43 Freon 113					CAS #: 76-13-1		
3.032	3.032 (0.574)	151	558862	48.0496	48.050	80.00- 120.00	100.00
3.032	3.032 (0.574)	153	357889			33.72- 93.72	64.04
3.032	3.032 (0.574)	101	669810			89.67- 149.67	119.85
44 1,1-Dichloroethene					CAS #: 75-35-4		
3.074	3.074 (0.582)	96	320675	45.7741	45.774	80.00- 120.00	100.00
3.074	3.074 (0.582)	98	205419			33.39- 93.39	64.06
3.060	3.074 (0.579)	61	608891			163.82- 223.82	189.88
47 Acetone					CAS #: 67-64-1		
3.214	3.213 (0.608)	58	182264	47.0884	47.088	80.00- 120.00	100.00
3.214	3.213 (0.608)	43	580286			299.66- 359.66	318.38
48 Carbon Disulfide					CAS #: 75-15-0		
3.298	3.297 (0.624)	76	862907	49.5071	49.507	80.00- 120.00	100.00
49 Iodomethane					CAS #: 74-88-4		
3.270	3.269 (0.619)	142	871666	57.8336	57.834	80.00- 120.00	100.00
3.270	3.269 (0.619)	127	377131			14.58- 74.58	43.27
52 2-Propanol					CAS #: 67-63-0		
3.396	3.395 (0.643)	45	720407	51.7519	51.752	80.00- 120.00	100.00
3.396	3.395 (0.643)	43	130730			0.00- 48.61	18.15
54 3-Chloropropene					CAS #: 107-05-1		
3.535	3.535 (0.669)	76	140946	46.9689	46.969	80.00- 120.00	100.00
3.535	3.535 (0.669)	41	498302			338.06- 398.06	353.54
57 Acetonitrile					CAS #: 75-05-8		
3.633	3.633 (0.688)	41	291218	47.7791	47.779	80.00- 120.00	100.00
3.633	3.633 (0.688)	40	154337			21.81- 81.81	53.00
3.633	3.633 (0.688)	38	35776			0.00- 41.86	12.28
59 Methylene Chloride					CAS #: 75-09-2		
3.717	3.717 (0.703)	49	441798	47.6921	47.692	80.00- 120.00	100.00
3.717	3.717 (0.703)	84	271820			30.77- 90.77	61.53
3.717	3.717 (0.703)	51	137904			1.39- 61.39	31.21

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
62 tert-Butyl alcohol					CAS #: 75-65-0		
3.857	3.857 (0.730)	59	847744	48.5186	48.519	80.00- 120.00	100.00
3.857	3.857 (0.730)	41	178217			0.00- 51.05	21.02
3.857	3.857 (0.730)	57	88570			0.00- 41.68	10.45
63 Methyl tert-butyl ether					CAS #: 1634-04-4		
3.941	3.941 (0.746)	73	903456	47.9065	47.906	80.00- 120.00	100.00
3.941	3.941 (0.746)	57	265771			0.00- 58.86	29.42
3.927	3.941 (0.743)	41	240075			0.00- 57.27	26.57
64 trans-1,2-Dichloroethene					CAS #: 156-60-5		
3.969	3.969 (0.751)	98	208277	44.1782	44.178	80.00- 120.00	100.00
3.969	3.969 (0.751)	61	553514			244.59- 304.59	265.76
3.969	3.969 (0.751)	96	326683			129.84- 189.84	156.85
66 Acrylonitrile					CAS #: 107-13-1		
4.067	4.067 (0.770)	52	242318	42.8272	42.827	80.00- 120.00	100.00
4.067	4.067 (0.770)	53	290915			88.50- 148.50	120.06
67 Hexane					CAS #: 110-54-3		
4.179	4.179 (0.791)	57	617136	48.2775	48.277	80.00- 120.00	100.00
4.179	4.179 (0.791)	43	387908			32.99- 92.99	62.86
4.179	4.179 (0.791)	86	76914			0.00- 42.56	12.46
71 1,1-Dichloroethane					CAS #: 75-34-3		
4.459	4.459 (0.844)	63	617626	46.9813	46.981	80.00- 120.00	100.00
4.459	4.459 (0.844)	65	187405			0.76- 60.76	30.34
72 Isopropyl ether					CAS #: 108-20-3		
4.445	4.445 (0.841)	45	1329420	49.2791	49.279	80.00- 120.00	100.00
4.445	4.445 (0.841)	87	290396			0.00- 51.37	21.84
4.445	4.445 (0.841)	59	147222			0.00- 41.09	11.07
73 Vinyl Acetate					CAS #: 108-05-4		
4.501	4.501 (0.852)	86	80675	49.9148	49.915	80.00- 120.00	100.00
4.501	4.501 (0.852)	43	1120059			1391.63-1451.63	1388.36
79 Ethyl-tert-butyl ether					CAS #: 637-92-3		
4.809	4.809 (0.910)	59	1275211	48.9632	48.963	80.00- 120.00	100.00
4.809	4.809 (0.910)	87	426576			3.22- 63.22	33.45
4.809	4.809 (0.910)	41	228698			0.00- 48.12	17.93
84 2,2-Dichloropropane					CAS #: 594-20-7		
5.005	5.004 (0.947)	77	590995	48.2566	48.256	80.00- 120.00	100.00
5.005	5.004 (0.947)	79	192709			2.00- 62.00	32.61
5.005	5.004 (0.947)	97	141275			0.00- 53.36	23.90

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
85 cis-1,2-Dichloroethene					CAS #: 156-59-2		
5.047	5.046 (0.955)	98	219389	46.9439	46.944	80.00- 120.00	100.00
5.047	5.046 (0.955)	96	338814			127.22- 187.22	154.44
5.047	5.046 (0.955)	61	695365			283.85- 343.85	316.96
86 2-Butanone					CAS #: 78-93-3		
5.061	5.074 (0.958)	72	159453	48.8472	48.847	80.00- 120.00	100.00
5.075	5.074 (0.960)	43	1698541			1055.75-1115.75	1065.23
5.061	5.074 (0.958)	57	63424			10.59- 70.59	39.78
87 Ethyl Acetate					CAS #: 141-78-6		
5.089	5.088 (0.963)	45	135429	50.3248	50.325	80.00- 120.00	100.00
5.047	5.046 (0.955)	61	695365			450.31- 510.31	513.45
5.089	5.088 (0.963)	70	82618			30.42- 90.42	61.00
89 Tetrahydrofuran					CAS #: 109-99-9		
5.270	5.270 (0.997)	42	450175	48.9056	48.906	80.00- 120.00	100.00
5.270	5.270 (0.997)	71	147888			2.92- 62.92	32.85
5.270	5.270 (0.997)	72	150501			3.54- 63.54	33.43
92 Chloroform					CAS #: 67-66-3		
5.340	5.340 (1.011)	83	682394	47.1495	47.149	80.00- 120.00	100.00
5.340	5.340 (1.011)	85	443132			34.71- 94.71	64.94
94 Cyclohexane					CAS #: 110-82-7		
5.438	5.438 (1.029)	84	426290	46.5989	46.599	80.00- 120.00	100.00
5.438	5.438 (1.029)	56	637500			120.40- 180.40	149.55
5.438	5.438 (1.029)	41	351146			54.20- 114.20	82.37
96 1,1,1-Trichloroethane					CAS #: 71-55-6		
5.466	5.466 (1.034)	97	732951	45.0547	45.055	80.00- 120.00	100.00
5.466	5.466 (1.034)	99	467751			33.76- 93.76	63.82
97 Carbon Tetrachloride					CAS #: 56-23-5		
5.578	5.578 (1.056)	119	747752	49.9064	49.906	80.00- 120.00	100.00
5.578	5.578 (1.056)	117	783754			73.68- 133.68	104.81
99 1,1-Dichloropropene					CAS #: 563-58-6		
5.606	5.606 (0.907)	110	184273	48.7302	48.730	80.00- 120.00	100.00
5.606	5.606 (0.907)	75	478848			231.09- 291.09	259.86
101 2,2,4-Trimethylpentane					CAS #: 540-84-1		
5.774	5.774 (1.093)	57	1944713	48.6476	48.648	80.00- 120.00	100.00
5.774	5.774 (1.093)	56	606500			1.12- 61.12	31.19
5.774	5.774 (1.093)	41	525031			0.00- 57.49	27.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
102 Benzene					CAS #: 71-43-2		
5.788	5.788 (0.937)	78	923835	48.7211	48.721	80.00- 120.00	100.00
5.788	5.788 (0.937)	77	219980			0.00- 53.80	23.81
105 tert-Amyl methyl ether					CAS #: 994-05-8		
5.858	5.858 (0.948)	87	246941	48.8421	48.842	80.00- 120.00	100.00
5.858	5.858 (0.948)	73	988323			365.20- 425.20	400.23
5.858	5.858 (0.948)	55	292246			91.31- 151.31	118.35
106 1,2-Dichloroethane					CAS #: 107-06-2		
5.886	5.886 (0.952)	62	514115	47.0940	47.094	80.00- 120.00	100.00
5.886	5.886 (0.952)	64	159770			1.20- 61.20	31.08
107 Heptane					CAS #: 142-82-5		
5.942	5.942 (0.962)	71	345477	46.2572	46.257	80.00- 120.00	100.00
5.942	5.942 (0.962)	43	714720			179.02- 239.02	206.88
5.942	5.942 (0.962)	57	389337			84.85- 144.85	112.70
110 n-Butanol					CAS #: 71-36-3		
6.348	6.348 (1.027)	56	362639	59.6668	59.667	80.00- 120.00	100.00
6.348	6.348 (1.027)	41	254365			40.21- 100.21	70.14
6.348	6.348 (1.027)	43	200559			25.00- 85.00	55.31
111 Trichloroethene					CAS #: 79-01-6		
6.362	6.362 (1.029)	95	451180	47.4295	47.429	80.00- 120.00	100.00
6.362	6.362 (1.029)	130	479590			74.96- 134.96	106.30
6.362	6.362 (1.029)	97	293531			34.80- 94.80	65.06
114 1,2-Dichloropropane					CAS #: 78-87-5		
6.586	6.586 (1.066)	63	177010	40.2725	40.272	80.00- 120.00	100.00
6.586	6.586 (1.066)	62	138474			52.03- 112.03	78.23
6.586	6.586 (1.066)	41	160835			79.97- 139.97	90.86
116 Methyl Methacrylate					CAS #: 80-62-6		
6.664	6.664 (0.773)	69	468768	61.9580	61.958	80.00- 120.00	100.00
6.664	6.664 (0.773)	41	579449			134.02- 194.02	123.61
6.664	6.664 (0.773)	100	141197			9.54- 69.54	30.12
117 1,4-Dioxane					CAS #: 123-91-1		
6.700	6.699 (1.084)	88	233447	48.6009	48.601	80.00- 120.00	100.00
6.700	6.699 (1.084)	58	204594			55.80- 115.80	87.64
6.700	6.699 (1.084)	57	85755			8.68- 68.68	36.73
118 Dibromomethane					CAS #: 74-95-3		
6.721	6.721 (0.780)	174	410747	48.7473	48.747	80.00- 120.00	100.00
6.714	6.721 (0.779)	93	398942			67.27- 127.27	97.13

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
118 Dibromomethane (continued)							
6.714	6.721 (0.779)	95	332955			50.92- 110.92	81.06
122 Bromodichloromethane					CAS #: 75-27-4		
6.836	6.836 (1.106)	83	736581	46.2205	46.220	80.00- 120.00	100.00
6.836	6.836 (1.106)	85	476785			34.31- 94.31	64.73
126 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.208	7.208 (1.166)	75	584209	49.3222	49.322	80.00- 120.00	100.00
7.208	7.208 (1.166)	77	186879			1.42- 61.42	31.99
7.208	7.208 (1.166)	39	397058			38.56- 98.56	67.97
127 Methylcyclohexane					CAS #: 108-87-2		
6.460	6.460 (1.045)	83	581182	45.6885	45.688	80.00- 120.00	100.00
6.460	6.460 (1.045)	98	267415			15.60- 75.60	46.01
6.460	6.460 (1.045)	55	588990			78.53- 138.53	101.34
131 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.316	7.316 (1.184)	58	375128	46.5771	46.577	80.00- 120.00	100.00
7.316	7.316 (1.184)	43	987393			231.30- 291.30	263.21
7.316	7.316 (1.184)	85	142840			8.94- 68.94	38.08
137 Toluene					CAS #: 108-88-3		
7.437	7.437 (1.203)	91	1211925	47.6336	47.634	80.00- 120.00	100.00
7.437	7.437 (1.203)	92	705909			28.30- 88.30	58.25
136 Octane					CAS #: 111-65-9		
7.445	7.444 (1.205)	57	411162	48.5724	48.572	80.00- 120.00	100.00
7.445	7.444 (1.205)	85	397266			67.11- 127.11	96.62
7.445	7.444 (1.205)	43	993852			214.21- 274.21	241.72
139 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
7.688	7.688 (0.892)	75	567866	49.0437	49.044	80.00- 120.00	100.00
7.688	7.688 (0.892)	77	179211			2.15- 62.15	31.56
7.688	7.688 (0.892)	39	362676			36.09- 96.09	63.87
141 1,1,2-Trichloroethane					CAS #: 79-00-5		
7.846	7.846 (0.910)	97	418129	46.9556	46.956	80.00- 120.00	100.00
7.846	7.846 (0.910)	99	259959			31.62- 91.62	62.17
7.846	7.846 (0.910)	83	364240			56.35- 116.35	87.11
142 Tetrachloroethene					CAS #: 127-18-4		
7.881	7.881 (0.914)	166	602834	48.9472	48.947	80.00- 120.00	100.00
7.881	7.881 (0.914)	129	471766			48.71- 108.71	78.26
7.881	7.881 (0.914)	131	456078			46.55- 106.55	75.66

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
143 2-Hexanone					CAS #: 591-78-6		
8.003	8.003 (0.929)	58	511144	49.9730	49.973	80.00- 120.00	100.00
8.003	8.003 (0.929)	43	961960			157.91- 217.91	188.20
8.003	8.003 (0.929)	100	91824			0.00- 47.86	17.96
144 1,3-Dichloropropane					CAS #: 142-28-9		
7.989	7.989 (1.293)	76	566994	46.7084	46.708	80.00- 120.00	100.00
7.989	7.989 (1.293)	41	641768			82.96- 142.96	113.19
7.989	7.989 (1.293)	78	186383			2.55- 62.55	32.87
146 Dibromochloromethane					CAS #: 124-48-1		
8.154	8.154 (0.946)	129	846162	50.0883	50.088	80.00- 120.00	100.00
8.154	8.154 (0.946)	127	651984			47.77- 107.77	77.05
148 1,2-Dibromoethane (EDB)					CAS #: 106-93-4		
8.268	8.268 (0.959)	107	678752	49.0832	49.083	80.00- 120.00	100.00
8.268	8.268 (0.959)	109	641952			64.60- 124.60	94.58
151 1-Bromo-2-Chloroethane					CAS #: 107-04-0		
7.115	7.115 (1.151)	63	755211	49.1069	49.107	80.00- 120.00	100.00
7.115	7.115 (1.151)	65	231086			0.95- 60.95	30.60
7.122	7.122 (1.152)	144	79308			0.00- 40.45	10.50
154 Chlorobenzene					CAS #: 108-90-7		
8.641	8.641 (1.002)	112	1023504	47.6349	47.635	80.00- 120.00	100.00
8.641	8.641 (1.002)	114	330682			2.13- 62.13	32.31
8.641	8.641 (1.002)	77	577849			26.35- 86.35	56.46
155 Ethyl Benzene					CAS #: 100-41-4		
8.684	8.684 (1.007)	106	522969	48.6750	48.675	80.00- 120.00	100.00
8.684	8.684 (1.007)	91	1634715			282.48- 342.48	312.58
156 Nonane					CAS #: 111-84-2		
8.705	8.705 (1.010)	43	1029711	49.4466	49.446	80.00- 120.00	100.00
8.705	8.705 (1.010)	57	930261			59.52- 119.52	90.34
8.705	8.705 (1.010)	85	309137			0.00- 59.76	30.02
157 1,1,1,2-Tetrachloroethane					CAS #: 630-20-6		
8.712	8.712 (1.011)	131	506531	42.8350	42.835	80.00- 120.00	100.00
8.712	8.712 (1.011)	117	345244			38.22- 98.22	68.16
8.712	8.712 (1.011)	95	189031			7.54- 67.54	37.32
158 m,p-Xylene					CAS #: 108-38-3		
8.784	8.784 (1.019)	106	656920	49.1467	49.147	80.00- 120.00	100.00
8.784	8.784 (1.019)	91	1321984			171.36- 231.36	201.24

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
164 o-Xylene					CAS #: 95-47-6		
9.121	9.128 (1.058)	106	613695	48.3631	48.363	80.00- 120.00	100.00
9.121	9.128 (1.058)	91	1301162			179.99- 239.99	212.02
165 Styrene					CAS #: 100-42-5		
9.149	9.149 (1.061)	104	1061214	48.2705	48.270	80.00- 120.00	100.00
9.149	9.149 (1.061)	78	522635			19.09- 79.09	49.25
167 Bromoform					CAS #: 75-25-2		
9.350	9.350 (1.085)	173	806097	50.3223	50.322	80.00- 120.00	100.00
9.350	9.350 (1.085)	171	412227			21.45- 81.45	51.14
168 Cumene					CAS #: 98-82-8		
9.407	9.414 (1.091)	105	1900407	47.3689	47.369	80.00- 120.00	100.00
9.407	9.414 (1.091)	120	514504			0.00- 56.99	27.07
9.407	9.407 (1.091)	51	220885			0.00- 41.77	11.62
169 Cyclohexanone					CAS #: 108-94-1		
9.579	9.579 (1.111)	55	611030	48.3969	48.397	80.00- 120.00	100.00
9.579	9.579 (1.111)	98	236867			9.22- 69.22	38.77
9.579	9.579 (1.111)	42	437371			42.60- 102.60	71.58
175 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
9.737	9.737 (1.130)	83	936271	47.0699	47.070	80.00- 120.00	100.00
9.737	9.737 (1.130)	85	600808			34.35- 94.35	64.17
177 Bromobenzene					CAS #: 108-86-1		
9.737	9.729 (1.130)	156	607057	48.6747	48.675	80.00- 120.00	100.00
9.737	9.737 (1.130)	158	593292			67.29- 127.29	97.73
9.730	9.729 (1.129)	77	995300			132.41- 192.41	163.95
178 Propylbenzene					CAS #: 103-65-1		
9.758	9.758 (1.132)	91	2290878	48.9382	48.938	80.00- 120.00	100.00
9.758	9.758 (1.132)	120	541415			0.00- 53.77	23.63
9.758	9.758 (1.132)	105	86417			0.00- 33.81	3.77
179 1,2,3-Trichloropropane					CAS #: 96-18-4		
9.787	9.787 (1.135)	110	289933	48.3881	48.388	80.00- 120.00	100.00
9.787	9.787 (1.135)	75	1009679			285.00- 345.00	348.25
9.787	9.787 (1.135)	61	246266			54.06- 114.06	84.94
181 trans-1,4-Dichloro-2-butene					CAS #: 110-57-6		
9.787	9.787 (1.135)	53	315097	66.4580	66.458	80.00- 120.00	100.00(R)
9.787	9.787 (1.135)	89	163024			21.19- 81.19	51.74
9.787	9.787 (1.135)	75	1009679			372.45- 432.45	320.43

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
182 Decane					CAS #: 124-18-5		
9.808	9.808 (1.138)	57	1197898	49.4898	49.490	80.00- 120.00	100.00
9.808	9.808 (1.138)	71	405230			4.13- 64.13	33.83
9.816	9.815 (1.139)	142	55996			0.00- 34.73	4.67
183 4-Ethyltoluene					CAS #: 622-96-8		
9.851	9.851 (1.143)	120	585173	48.2264	48.226	80.00- 120.00	100.00
9.851	9.851 (1.143)	105	1911490			296.79- 356.79	326.65
184 2-Chlorotoluene					CAS #: 95-49-8		
9.873	9.873 (1.145)	126	476561	48.3366	48.337	80.00- 120.00	100.00
9.873	9.873 (1.145)	91	1735908			336.29- 396.29	364.26
9.873	9.873 (1.145)	65	325512			38.83- 98.83	68.30
185 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
9.901	9.901 (1.149)	120	799023	46.8837	46.884	80.00- 120.00	100.00
9.901	9.901 (1.149)	105	1648088			176.40- 236.40	206.26
188 alpha Methyl Styrene					CAS #: 98-83-9		
10.102	10.102 (1.172)	118	855997	49.0416	49.042	80.00- 120.00	100.00
10.102	10.102 (1.172)	103	483742			26.64- 86.64	56.51
189 tert-Butylbenzene					CAS #: 98-06-6		
10.174	10.174 (1.180)	119	1502829	47.9258	47.926	80.00- 120.00	100.00
10.174	10.174 (1.180)	134	374135			0.00- 54.82	24.90
10.174	10.174 (1.180)	91	1013570			36.92- 96.92	67.44
190 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
10.224	10.224 (1.186)	105	1620169	48.2107	48.211	80.00- 120.00	100.00
10.224	10.224 (1.186)	120	750731			16.58- 76.58	46.34
192 sec-Butylbenzene					CAS #: 135-98-8		
10.360	10.360 (1.202)	134	485531	47.9377	47.938	80.00- 120.00	100.00
10.360	10.360 (1.202)	105	2338945			451.53- 511.53	481.73
10.360	10.353 (1.202)	91	369819			46.48- 106.48	76.17
194 p-Cymene					CAS #: 99-87-6		
10.467	10.467 (1.214)	119	2043204	48.1713	48.171	80.00- 120.00	100.00
10.475	10.467 (1.215)	134	548005			0.00- 56.79	26.82
10.467	10.467 (1.214)	91	490581			0.00- 54.04	24.01
195 1,3-Dichlorobenzene					CAS #: 541-73-1		
10.517	10.517 (1.220)	146	1106363	48.4571	48.457	80.00- 120.00	100.00
10.517	10.517 (1.220)	148	703822			33.53- 93.53	63.62
10.517	10.517 (1.220)	111	455868			11.05- 71.05	41.20

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
196 1,4-Dichlorobenzene					CAS #: 106-46-7		
10.596	10.596 (1.229)	146	1115809	47.4456	47.446	80.00- 120.00	100.00
10.596	10.596 (1.229)	148	716661			33.47- 93.47	64.23
10.596	10.596 (1.229)	111	449960			9.65- 69.65	40.33
199 alpha-Chlorotoluene					CAS #: 100-44-7		
10.711	10.711 (1.243)	91	1619916	50.0978	50.098	80.00- 120.00	100.00
10.711	10.711 (1.243)	126	353017			0.00- 52.04	21.79
201 Undecane					CAS #: 1120-21-4		
10.804	10.804 (1.253)	57	1303110	45.6864	45.686	80.00- 120.00	100.00
10.804	10.804 (1.253)	43	1118498			55.86- 115.86	85.83
202 Butylbenzene					CAS #: 104-51-8		
10.818	10.818 (1.255)	134	526009	47.8292	47.829	80.00- 120.00	100.00
10.818	10.818 (1.255)	91	1894116			331.99- 391.99	360.09
10.818	10.818 (1.255)	92	993791			161.01- 221.01	188.93
204 1,2-Dichlorobenzene					CAS #: 95-50-1		
10.926	10.926 (1.268)	146	1049945	47.5881	47.588	80.00- 120.00	100.00
10.926	10.926 (1.268)	148	670191			33.23- 93.23	63.83
10.919	10.918 (1.267)	111	443537			12.36- 72.36	42.24
206 1,2-Dibromo-3-chloropropane					CAS #: 96-12-8		
11.606	11.606 (1.347)	157	625255	48.8744	48.874	80.00- 120.00	100.00
11.599	11.599 (1.346)	75	554821			58.96- 118.96	88.74
11.606	11.606 (1.347)	155	488548			47.82- 107.82	78.14
207 Dodecane					CAS #: 112-40-3		
11.714	11.714 (1.359)	57	1020660	42.3179	42.318	80.00- 120.00	100.00
11.714	11.714 (1.359)	43	820544			50.85- 110.85	80.39
213 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
12.301	12.301 (1.427)	180	814851	51.9976	51.998	80.00- 120.00	100.00
12.301	12.301 (1.427)	182	773714			65.40- 125.40	94.95
215 Hexachlorobutadiene					CAS #: 87-68-3		
12.387	12.387 (1.437)	225	634879	53.6326	53.633	80.00- 120.00	100.00
12.387	12.387 (1.437)	223	401706			33.70- 93.70	63.27
216 Naphthalene					CAS #: 91-20-3		
12.559	12.552 (1.457)	128	213475	4.46106	4.461	80.00- 120.00	100.00
12.559	12.552 (1.457)	127	27510			0.00- 43.10	12.89
222 1,2,3-Trichlorobenzene					CAS #: 87-61-6		
12.810	12.802 (1.486)	180	708948	49.4384	49.438	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
222 1,2,3-Trichlorobenzene (continued)							
12.810	12.802 (1.486)	182	672604			65.67- 125.67	94.87
12.810	12.802 (1.486)	145	253332			6.02- 66.02	35.73

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd3.i
Lab File ID: 3062226.d
Lab Smp Id: ICV
Analysis Type: VOA
Quant Type: ISTD
Operator: LD
Method File: /chem/msd3.i/22JUN21.b/321q0622a.m
Misc Info: 50ppbv (200ppbv)

Calibration Date: 22-JUN-2021
Calibration Time: 23:12
Client Smp ID: ICV
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	243405	146043	340767	230839	-5.16
108 1,4-Difluorobenze	874076	524446	1223706	830933	-4.94
153 Chlorobenzene-d5	831223	498734	1163712	786155	-5.42

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.28	4.95	5.61	5.28	0.00
108 1,4-Difluorobenze	6.18	5.85	6.51	6.18	0.00
153 Chlorobenzene-d5	8.62	8.29	8.95	8.62	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 23-Jun-2021 11:20

US32TAR1

RECOVERY REPORT

Client Name: Client SDG: 22JUN21
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: ICV Client Smp ID: ICV
Level: LOW Operator: LD
Data Type: MS DATA SampleType: ICV
SpikeList File: AT20_new.spk Quant Type: ISTD
Sublist File: AT20LCS_new.sub
Method File: /chem/msd3.i/22JUN21.b/321q0622a.m
Misc Info: 50ppbv (200ppbv)

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
4 Freon 134a	50.000	50.367	100.73	70-130
5 Propylene	50.000	47.606	95.21	70-130
7 1,1-Difluoroethan	50.000	49.912	99.82	70-130
8 Freon 12	50.000	46.416	92.83	70-130
9 Chlorodifluoromet	50.000	41.762	83.53	70-130
10 Freon 114	50.000	49.168	98.34	70-130
12 Isobutane	50.000	48.574	97.15	70-130
15 Chloromethane	50.000	45.401	90.80	70-130
18 Butane	50.000	40.046	80.09	70-130
19 Vinyl Chloride	50.000	41.404	82.81	70-130
20 1,3-Butadiene	50.000	40.185	80.37	70-130
24 Bromomethane	50.000	46.174	92.35	70-130
30 Chloroethane	50.000	48.772	97.55	70-130
31 Isopentane	50.000	48.087	96.17	70-130
32 Vinyl Bromide	50.000	47.882	95.76	70-130
33 Freon 11	50.000	47.135	94.27	70-130
34 Dichlorofluoromet	50.000	49.179	98.36	70-130
35 Pentane	50.000	46.537	93.07	70-130
38 Ethyl Ether	50.000	48.481	96.96	70-130
39 Ethanol	58.000	46.986	81.01	70-130
42 Acrolein	58.000	52.518	90.55	70-130
43 Freon 113	50.000	48.050	96.10	70-130
44 1,1-Dichloroethen	50.000	45.774	91.55	70-130
47 Acetone	50.000	47.088	94.18	70-130
48 Carbon Disulfide	50.000	49.507	99.01	70-130
49 Iodomethane	50.000	57.834	115.67	70-130
52 2-Propanol	50.000	51.752	103.50	70-130
54 3-Chloropropene	50.000	46.969	93.94	70-130
57 Acetonitrile	50.000	47.779	95.56	70-130
59 Methylene Chlorid	50.000	47.692	95.38	70-130
62 tert-Butyl alcoho	50.000	48.519	97.04	70-130
63 Methyl tert-butyl	50.000	47.906	95.81	70-130
64 trans-1,2-Dichlor	50.000	44.178	88.36	70-130

	SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
66	Acrylonitrile	50.000	42.827	85.65	70-130
67	Hexane	50.000	48.277	96.55	70-130
71	1,1-Dichloroethan	50.000	46.981	93.96	70-130
72	Isopropyl ether	50.000	49.279	98.56	70-130
73	Vinyl Acetate	50.000	49.915	99.83	70-130
79	Ethyl-tert-butyl	50.000	48.963	97.93	70-130
84	2,2-Dichloropropa	50.000	48.256	96.51	70-130
85	cis-1,2-Dichloroe	50.000	46.944	93.89	70-130
86	2-Butanone	50.000	48.847	97.69	70-130
87	Ethyl Acetate	50.000	50.325	100.65	70-130
89	Tetrahydrofuran	50.000	48.906	97.81	70-130
92	Chloroform	50.000	47.149	94.30	70-130
94	Cyclohexane	50.000	46.599	93.20	70-130
96	1,1,1-Trichloroet	50.000	45.055	90.11	70-130
99	1,1-Dichloroprope	50.000	48.730	97.46	70-130
97	Carbon Tetrachlor	50.000	49.906	99.81	70-130
101	2,2,4-Trimethylpe	50.000	48.648	97.30	70-130
102	Benzene	50.000	48.721	97.44	70-130
105	tert-Amyl methyl	50.000	48.842	97.68	70-130
106	1,2-Dichloroethan	50.000	47.094	94.19	70-130
107	Heptane	50.000	46.257	92.51	70-130
110	n-Butanol	50.000	59.667	119.33	70-130
111	Trichloroethene	50.000	47.429	94.86	70-130
118	Dibromomethane	50.000	48.747	97.49	70-130
127	Methylcyclohexane	50.000	45.688	91.38	70-130
114	1,2-Dichloropropa	50.000	40.272	80.55	70-130
116	Methyl Methacryla	50.000	61.958	123.92	70-130
117	1,4-Dioxane	50.000	48.601	97.20	70-130
122	Bromodichlorometh	50.000	46.220	92.44	70-130
126	cis-1,3-Dichlorop	50.000	49.322	98.64	70-130
131	4-Methyl-2-pentan	50.000	46.577	93.15	70-130
136	Octane	50.000	48.572	97.14	70-130
137	Toluene	50.000	47.634	95.27	70-130
139	trans-1,3-Dichlor	50.000	49.044	98.09	70-130
141	1,1,2-Trichloroet	50.000	46.956	93.91	70-130
142	Tetrachloroethene	50.000	48.947	97.89	70-130
143	2-Hexanone	50.000	49.973	99.95	70-130
144	1,3-Dichloropropa	50.000	46.708	93.42	70-130
146	Dibromochlorometh	50.000	50.088	100.18	70-130
148	1,2-Dibromoethane	50.000	49.083	98.17	70-130
151	1-Bromo-2-Chloroe	50.000	49.107	98.21	70-130
154	Chlorobenzene	50.000	47.635	95.27	70-130
155	Ethyl Benzene	50.000	48.675	97.35	70-130
156	Nonane	50.000	49.446	98.89	70-130
157	1,1,1,2-Tetrachlo	50.000	42.835	85.67	70-130
158	m,p-Xylene	50.000	49.147	98.29	70-130
164	o-Xylene	50.000	48.363	96.73	70-130

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
165 Styrene	50.000	48.270	96.54	70-130
167 Bromoform	50.000	50.322	100.64	70-130
168 Cumene	50.000	47.369	94.74	70-130
169 Cyclohexanone	50.000	48.397	96.79	70-130
175 1,1,2,2-Tetrachlo	50.000	47.070	94.14	70-130
177 Bromobenzene	50.000	48.675	97.35	70-130
178 Propylbenzene	50.000	48.938	97.88	70-130
179 1,2,3-Trichloropr	50.000	48.388	96.78	70-130
181 trans-1,4-Dichlor	50.000	66.458	132.92*	70-130
182 Decane	50.000	49.490	98.98	70-130
183 4-Ethyltoluene	50.000	48.226	96.45	70-130
184 2-Chlorotoluene	50.000	48.337	96.67	70-130
185 1,3,5-Trimethylbe	50.000	46.884	93.77	70-130
188 alpha Methyl Styr	50.000	49.042	98.08	70-130
189 tert-Butylbenzene	50.000	47.926	95.85	70-130
190 1,2,4-Trimethylbe	50.000	48.211	96.42	70-130
192 sec-Butylbenzene	50.000	47.938	95.88	70-130
194 p-Cymene	50.000	48.171	96.34	70-130
195 1,3-Dichlorobenze	50.000	48.457	96.91	70-130
196 1,4-Dichlorobenze	50.000	47.446	94.89	70-130
199 alpha-Chlorotolue	50.000	50.098	100.20	70-130
201 Undecane	50.000	45.686	91.37	70-130
202 Butylbenzene	50.000	47.829	95.66	70-130
204 1,2-Dichlorobenze	50.000	47.588	95.18	70-130
206 1,2-Dibromo-3-chl	50.000	48.874	97.75	70-130
207 Dodecane	50.000	42.318	84.64	70-130
213 1,2,4-Trichlorobe	58.000	51.998	89.65	70-130
215 Hexachlorobutadie	58.000	53.633	92.47	70-130
216 Naphthalene	5.800	4.461	76.91	60-140
222 1,2,3-Trichlorobe	58.000	49.438	85.24	70-130

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 104 1,2-Dichloroethan	25.000	24.239	96.96	70-130
$ 134 Toluene-d8	25.000	24.806	99.23	70-130
$ 170 4-Bromofluorobenz	25.000	24.753	99.01	70-130

Data File: /chem/msd3.i/22JUN21.b/3062226.d

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Date : 23-JUN-2021 09:45

Client ID: ICV

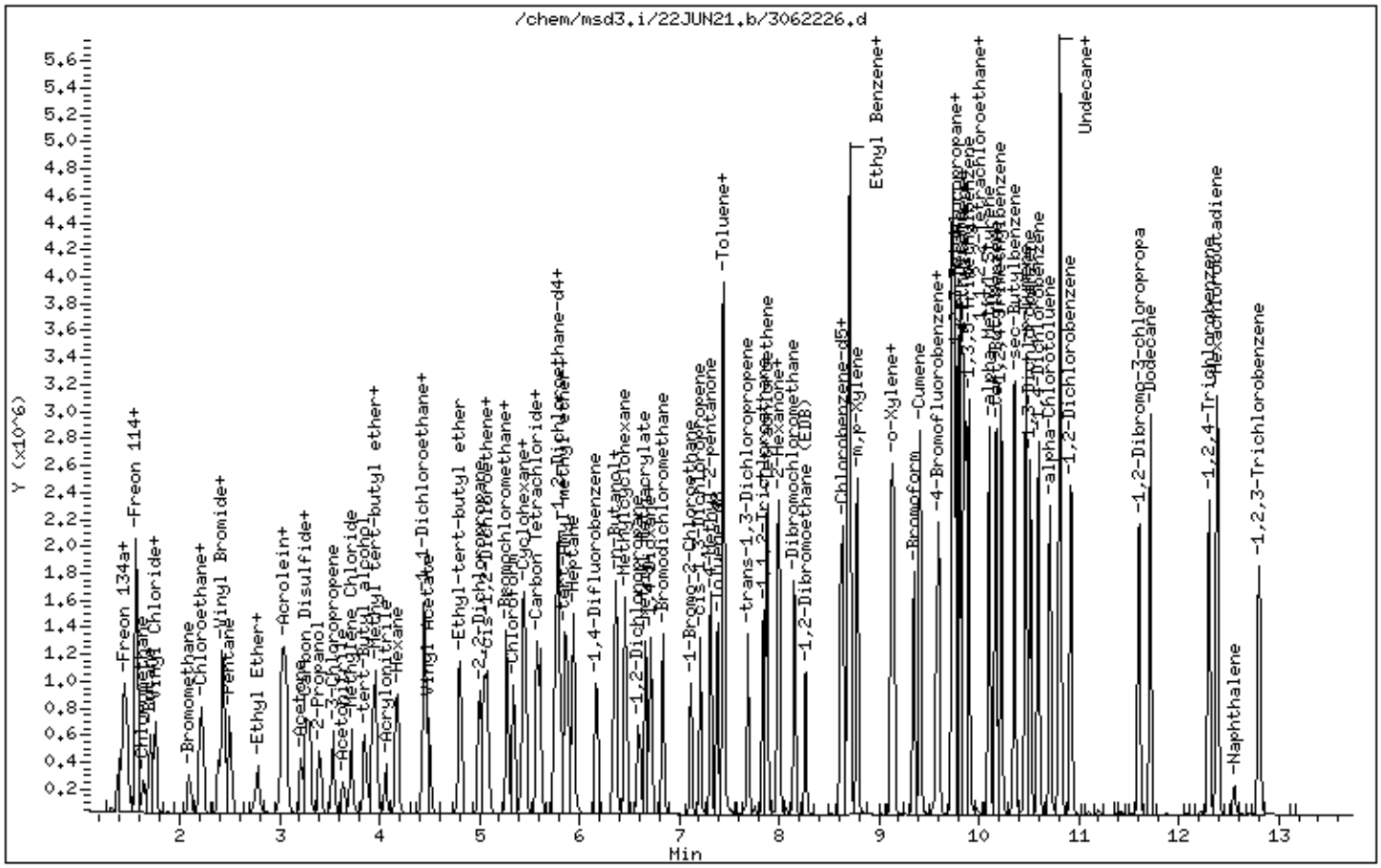
Instrument: msd3.i

Sample Info: 50mL 3018-2121

Operator: LD

Column phase: RTX-624

Column diameter: 0.25



MSD-3 MDL Case Narrative

A Method Detection Limit Study for TO-15 method was performed on 05/03/21, 05/04/24, and 05/05/21, 06/01/21, 06/02/22, 06/03/21, 06/04/21, 06/07/21 and 06/08/21.

The MDL spikes were performed at:

- 0.3 ppbv (5.0ppbv->0.3ppbv); spike load of 12mL of standard #3018-2045
- 0.4 ppbv (5.0ppbv->0.4ppbv); spike load of 16mL of standard #3018-2045
- 0.8 ppbv (5.0ppbv->0.8ppbv); spike load of 32ml of standard #3018-2045 and #3018-1973
- 2.0 ppbv (5.0ppbv->2.0ppbv); spike load of 80ml of standard #3018-2045 and #3018-1973

The MDL verifications were analyzed on 6/15/21:

- 3061507: (0.3ppbv spike compounds). 5.0ppbv->0.25ppbv; spike load of 10ml of standard #3018-1973
- 3061508: (0.4ppbv spike compounds). 5.0ppbv->0.30ppbv; spike load of 12ml of standard #3018-1973
- 3061509: (0.8ppbv RL compounds). 5.0ppbv->0.50ppbv; spike load of 20ml of standard #3018-1973
- 3061510: (2.0 ppbv RL compounds). 5.0ppbv->1.25ppbv; spike load of 50ml of standard #3018-1973
- 3061510a (Naph only). 5.0ppbv->0.125ppbv; spike load of 50ml of standard #3018-1973

Notes:

1) **The MDL values for the following compounds were taken from the MDL blank:**
   - Toluene (0.12097ppbv)
   - Tetrachloroethane (0.08847ppbv)
   - m-p-Xylene (0.27315ppbv)
   - o-Xylene (0.13368ppbv)
   - 4-Ethyltoluene (0.12694ppbv)
   - 1,3,5-Trimethylbenzene (0.07763ppbv)
   - 1,2,4-Trimethylbenzene (0.18507ppbv)
   - Acetone (0.35944ppbv)
   - Carbon Disulfide (0.46909ppbv)

2) Dodecane mean recovered concentration and MDL ratio <1.

3) MDL verification for Naphthalene was less than 2-4X the MDL value.

4) The concentrations for Dodecane, 1,2,4-TCB, Hexachlorobutadiene, 1,2,3-TCB, and Naphthalene were adjusted in the MDL spikes due to the certified concentration exceeding more than 15% of the nominal concentration.

MDL expires 6/08/22

01JUN21.0.4ppbv-mdl.rp

MSD-3 TO15 Quad MDL

Standard 3018-2045

16 mL load volume

Spike concentration

0.4ppbv

Report Date : 04-Jun-2021 15:53

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/01JUN21.b/321q0317a.m
Batch File: /chem/msd3.i/01JUN21.b
Inst ID: msd3.i

ID:	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09
FILENAME:	3060109	3060110	3060111	3060209	3060210	3060211	3060312	3060313	3060314
INJ.DATE:	01-JUN-2021	01-JUN-2021	01-JUN-2021	02-JUN-2021	02-JUN-2021	02-JUN-2021	03-JUN-2021	03-JUN-2021	03-JUN-2021
INJ.TIME:	14:01	14:29	14:56	14:10	14:38	15:05	16:50	17:18	17:45

PPTV RL SPRL

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL		
1 Dimethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
2 1,1-Dichloro-1-Fluoroe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
3 Freon 143a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
4 Freon 134a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
5 Propylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
6 Propane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
7 1,1-Difluoroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
8 Freon 12	454.29	450.99	459.72	449.89	450.96	521.90	520.12	437.40	476.88	469.13	31.20	90.37	500	400
9 Chlorodifluoromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
10 Freon 114	470.39	474.93	474.26	523.77	487.91	489.27	456.20	442.84	499.62	479.91	23.84	69.05	500	400
11 Freon 14	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
12 Isobutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
13 Freon 142b	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
14 Acetaldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
15 Chloromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
16 Hexafluoropropene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
17 Freon 13	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		

Reviewer 1 _____ Date: 6/16/21
Reviewer 2 _____ Date: 6/16/21

Ratio of the mean recovered concentration and MDL value is between 1-20.

$\bar{X} = 90.78$
$2\bar{X} = 181.56$
$3\bar{X} = 272.34$
$4\bar{X} = 363.12$

MDL verification
Standard # 3018-1973 (5.0ppbv)
12 mL volume file # 3061508
spike concentration 0.3 ppbv

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/01JUN21.b/321q0317a.m
Batch File: /chem/msd3.i/01JUN21.b
Inst ID: msd3.i

PQTV RL SPRL

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
18 Butane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
19 Vinyl Chloride	520.09	567.60	562.12	528.99	641.59	506.36	653.03	614.57	703.97	588.70	68.09	197.20
20 1,3-Butadiene	538.14	632.50	627.40	629.38	532.48	659.05	526.06	637.99	669.42	605.83	56.97	164.99
21 Vinyl Fluoride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
22 Ethylene Oxide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
23 Methanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
24 Bromomethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
25 Isobutylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
26 2-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
27 trans-2-butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
28 1-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
29 cis-2-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
30 Chloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
31 Isopentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
32 Vinyl Bromide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
33 Freon 11	467.18	475.49	444.90	493.51	456.60	484.61	495.38	482.36	507.43	478.61	19.83	57.42
34 Dichlorofluoromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
35 Pentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
36 1-Pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
37 3-Methyl-1-butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
38 Ethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
39 Ethanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

500 400

500 400

500 400

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/01JUN21.b/321q0317a.m
Batch File: /chem/msd3.i/01JUN21.b
Inst ID: msd3.i

PPTV RL SpRL

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
40 Freon 123a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
41 Freon 123	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
42 Acrolein	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
43 Freon 113	490.98	485.04	500.15	532.82	449.70	514.81	533.10	480.82	478.98	496.27	27.18	78.72
44 1,1-Dichloroethene	471.23	417.05	403.58	502.55	401.29	415.87	413.26	466.25	453.20	438.25	36.01	104.27
45 2-Chloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
46 2,3-Dimethylbutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
47 Acetone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
48 Carbon Disulfide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
49 Iodomethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
50 Isoprene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
51 2-Methyl-2-butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
52 2-Propanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
53 trans-2-Pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
54 3-Chloropropene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
55 Cyclopentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
56 Methyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
57 Acetonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
58 cis-2-Pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
59 Methylene Chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
60 Cyclopentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
61 1,2-Dichloro-1-fluoroe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
62 tert-Butyl alcohol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
63 Methyl tert-butyl ethe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

500 500
400 800

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/01JUN21.b/321q0317a.m
Batch File: /chem/msd3.i/01JUN21.b
Inst ID: msd3.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL	PPTV RL	SPRL
64 trans-1,2-Dichloroethe	434.58	437.36	418.44	594.77	392.87	379.26	366.41	352.78	407.49	420.44	71.59	207.33	500	400
65 2,2-Dimethylbutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
66 Acrylonitrile	460.96	500.76	523.53	501.36	329.25	401.49	385.40	412.03	485.66	444.49	65.47	189.59	2000	500
67 Hexane	397.44	390.85	381.15	396.45	393.83	395.15	352.61	358.99	301.22	374.19	32.03	92.77	500	800
68 1-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
69 Bromoethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
70 4-Methyl-1-pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
71 1,1-Dichloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
72 Isopropyl ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
73 Vinyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
74 Chloroprene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
75 1-Propanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
76 2-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
77 3-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
78 1-Chloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
79 Ethyl-tert-butyl ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
80 2-Methyl-1-pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
81 2,4-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
82 2,3-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
83 tert-Butyl chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
84 2,2-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
85 cis-1,2-Dichloroethene	406.23	339.12	394.79	410.43	459.76	386.12	407.07	400.11	391.34	399.44	31.16	90.23	500	400
86 2-Butanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/01JUN21.b/321q0317a.m
Batch File: /chem/msd3.i/01JUN21.b
Inst ID: msd3.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL	PPTV RL	SPRL
87 Ethyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
88 Methyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
89 Tetrahydrofuran	392.28	308.18	375.81	351.30	382.02	278.79	368.88	354.69	374.96	354.10	37.34	108.12	500	800
* 90 Bromochloromethane	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	0.00	0.00		
91 trans-2-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
92 Chloroform	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
93 cis-2-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
94 Cyclohexane	421.16	433.62	432.47	402.30	353.96	357.57	385.82	409.64	331.39	391.99	37.05	107.30	500	400
95 Methylcyclopentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
96 1,1,1-Trichloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
97 Carbon Tetrachloride	441.86	416.57	401.45	496.61	437.54	450.66	466.79	463.29	457.40	448.02	28.17	81.57	500	800
98 sec-Butyl chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
99 1,1-Dichloropropene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
100 2,3,4-Trimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
101 2,2,4-Trimethylpentane	366.02	354.98	374.91	364.34	345.24	369.91	351.32	336.42	342.33	356.16	13.37	38.72	500	400
102 Benzene	384.25	373.46	379.77	375.64	382.39	357.76	403.13	391.89	370.25	379.84	13.00	37.64	500	400
103 Isobutanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
$ 104 1,2-Dichloroethane-d4	26012.80	24530.93	25455.22	26543.26	27108.49	26931.37	27307.04	27270.32	27019.49	26464.32	953.12	2760.23		
105 tert-Amyl methyl ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
106 1,2-Dichloroethane	446.36	440.55	473.99	465.84	483.48	500.97	507.75	551.39	507.50	486.43	34.69	100.46	500	800
107 Heptane	324.96	372.59	369.77	307.08	314.82	300.27	322.25	312.99	378.20	333.66	30.85	89.34	500	800
* 108 1,4-Difluorobenzene	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	0.00	0.00		
109 Butanal	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
110 n-Butanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/01JUN21.b/321q0317a.m
Batch File: /chem/msd3.i/01JUN21.b
Inst ID: msd3.i

PPTV RL SPRL MDL Blank

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL			
111 Trichloroethene	432.98	412.78	434.49	426.79	398.78	467.28	457.60	449.98	423.39	433.78	21.72	62.91	500	400	
112 Isobutyl chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
113 Ethyl acrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
114 1,2-Dichloropropane	424.16	543.68	543.45	628.55	524.98	560.69	610.59	571.80	548.48	550.71	58.07	168.16	500	400	
115 2-Pentanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
116 Methyl Methacrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
117 1,4-Dioxane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
118 Dibromomethane	446.54	507.68	505.31	536.64	539.78	466.69	488.20	467.21	461.00	491.00	33.52	97.07	2000	400	80.81
119 Methacrylonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
120 2-Chloropentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
121 2-Butanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
122 Bromodichloromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
123 1-Bromopropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
124 Chloroacetonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
125 n-Butylchloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
126 cis-1,3-Dichloropropen	390.26	427.63	436.33	364.46	404.43	422.02	431.56	402.29	441.35	413.37	25.12	72.75	500	400	
127 Methylcyclohexane	417.04	384.70	372.53	399.47	414.30	328.78	407.36	381.08	343.60	383.21	30.84	89.33	2000	400	
128 Thiophene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
129 2-Methylhexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
130 3-Methylhexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
131 4-Methyl-2-pentanone	413.22	394.54	380.31	389.13	424.63	366.34	345.26	397.08	356.29	385.20	25.97	75.20	500	400	
132 Cyclohexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
$ 133 Benzene-d6	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
$ 134 Toluene-d8	24812.98	25037.79	24745.78	24544.93	25002.36	24499.33	25124.77	25292.63	25011.02	24896.84	265.60	769.17			

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/01JUN21.b/321q0317a.m
Batch File: /chem/msd3.i/01JUN21.b
Inst ID: msd3.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
135 1-Methoxy-2-propanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
136 Octane	377.73	417.60	441.05	395.95	398.25	394.68	417.99	394.54	399.15	404.11	18.51	53.61
137 Toluene	429.11	406.62	421.60	411.51	455.86	399.72	402.79	379.76	426.55	414.84	21.66	62.72
138 1-Heptene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
139 trans-1,3-Dichloroprop	396.13	376.83	443.62	416.16	438.65	440.75	424.09	396.52	433.45	418.47	23.75	68.78
140 2,3-Dichloro-1-propene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
141 1,1,2-Trichloroethane	407.47	393.54	461.94	440.32	433.21	437.85	458.30	451.48	414.88	433.22	23.54	68.17
142 Tetrachloroethene	477.52	458.32	462.79	462.43	455.71	485.11	442.27	451.47	408.16	455.97	22.08	63.95
143 2-Hexanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
144 1,3-Dichloropropane	458.56	380.29	433.12	408.65	450.25	410.65	424.12	460.15	431.47	428.58	26.14	75.69
145 Butyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
146 Dibromochloromethane	440.26	428.71	428.43	472.03	460.96	428.50	419.84	468.80	486.20	448.19	24.04	69.63
147 Bromodichloroethene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
148 1,2-Dibromoethane (EDB	417.98	426.05	414.82	421.18	435.58	444.67	448.51	411.32	408.04	425.35	14.55	42.14
149 2-Methylheptane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
150 3-Methylheptane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
151 1-Bromo-2-Chloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
152 Diethyl Ketone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
* 153 Chlorobenzene-d5	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	0.00	0.00
154 Chlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
155 Ethyl Benzene	364.58	412.70	432.65	359.94	359.32	405.37	382.39	428.89	405.19	394.56	28.89	83.66
156 Nonane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
157 1,1,1,2-Tetrachloroeth	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
158 m,p-Xylene	375.42	350.56	433.73	402.14	412.55	398.21	362.11	362.61	368.10	385.05	27.82	80.56

PPTV RL | SPRL | MDL Blank

2000 | 400
500 | 400 | 120.97
500 | 400
500 | 400 | 88.4
500 | 400
2000 | 500
500 | 400
500 | 800
800 | 400
500 | 800 | 273.15

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/01JUN21.b/321q0317a.m
Batch File: /chem/msd3.i/01JUN21.b
Inst ID: msd3.i

PDTV RL SPRL MDL Blank

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL			
159 2-Nitropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
160 bis(chloromethyl) Ethe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
161 1-Octene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
162 Epichlorohydrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
163 2-Chloroethyl Vinyl Et	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
164 o-Xylene	360.39	357.64	385.95	366.63	386.16	380.27	370.40	340.52	352.46	366.71	15.64	45.30	500	400	133.6
165 Styrene	364.41	347.64	373.59	377.48	380.05	357.02	333.96	350.60	321.00	356.20	20.09	58.19	500	400	
166 2-Heptanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
167 Bromoform	426.94	444.59	437.91	458.93	427.02	434.01	459.30	458.58	464.41	445.74	14.90	43.14	500	400	
168 Cumene	378.24	397.47	397.21	383.06	374.09	375.05	349.86	337.74	344.12	370.76	22.04	63.84	500	800	
169 Cyclohexanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
$ 170 4-Bromofluorobenzene	26228.51	26286.57	26715.37	26196.73	26575.59	26324.98	26555.74	26222.00	26548.37	26405.98	192.72	558.13			
171 Vinyl Cyclohexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
172 D-Limonene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
173 Ethyl Methacrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
174 1-Chloro-2-Bromopropan	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
175 1,1,2,2-Tetrachloroeth	411.22	443.64	429.40	426.37	424.84	397.72	422.71	437.17	422.96	424.00	13.47	39.00	500	400	
176 1-Nitropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
177 Bromobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
178 Propylbenzene	415.18	403.90	410.25	417.37	402.47	409.14	387.22	403.40	417.91	407.43	9.63	27.88	500	400	
179 1,2,3-Trichloropropane	353.67	411.55	459.65	457.83	494.33	423.20	519.48	502.45	418.17	448.93	52.65	152.48	2000	400	
180 Bromodichloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
181 trans-1,4-Dichloro-2-b	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
182 Decane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/01JUN21.b/321q0317a.m
Batch File: /chem/msd3.i/01JUN21.b
Inst ID: msd3.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
183 4-Ethyltoluene	416.23	451.66	409.49	400.58	423.84	452.96	393.29	403.12	379.99	414.57	24.85	71.96
184 2-Chlorotoluene	399.81	443.34	404.82	459.95	412.16	455.86	417.43	432.16	434.47	428.89	21.74	62.95
185 1,3,5-Trimethylbenzene	386.43	396.74	425.00	409.73	396.70	401.73	440.80	357.16	387.96	400.25	23.91	69.24
186 4-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
187 Diisobutyl Ketone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
188 alpha Methyl Styrene	368.66	361.27	347.68	364.57	378.24	362.63	327.92	352.95	373.95	359.76	15.26	44.18
189 tert-Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
190 1,2,4-Trimethylbenzene	371.01	404.88	382.39	386.33	381.42	368.31	349.08	354.63	367.82	373.98	16.98	49.18
191 Pentachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
192 sec-Butylbenzene	374.76	355.04	391.28	426.93	393.20	338.76	390.14	364.61	386.77	380.17	25.60	74.12
193 bis(2-Chloroethyl) Eth	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
194 p-Cymene	395.01	369.71	354.29	381.01	387.47	358.95	362.91	369.07	330.28	367.63	19.36	56.08
195 1,3-Dichlorobenzene	420.15	448.97	452.39	479.41	459.18	441.28	450.12	496.82	465.52	457.09	22.09	63.97
196 1,4-Dichlorobenzene	436.69	444.02	449.75	444.21	448.35	427.96	448.94	422.21	457.05	442.13	11.18	32.39
197 1,2,3-Trimethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
198 1-Nonene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
199 alpha-Chlorotoluene	387.37	418.08	392.75	402.39	415.91	404.49	414.03	404.91	376.73	401.85	13.92	40.31
200 1-Chlorohexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
201 Undecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
202 Butylbenzene	377.98	409.21	399.32	376.58	371.53	391.53	321.56	388.79	377.51	379.33	24.85	71.97
203 Butyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
204 1,2-Dichlorobenzene	459.79	458.84	436.36	432.09	432.68	452.83	459.30	470.11	467.48	452.16	14.76	42.75
205 Hexachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

PPTV RL | SPRL | MDL Blank

500	400	126.94
2000	400	
500	400	77.63
2000	400	
500	800	185.10
2000	800	
2000	800	
500	400	
500	400	
500	800	
2000	400	27.37
500	400	

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/01JUN21.b/321q0317a.m
Batch File: /chem/msd3.i/01JUN21.b
Inst ID: msd3.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
206 1,2-Dibromo-3-chloropr	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
207 Dodecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
208 1,3,5-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
209 1-Decene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
210 alpha-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
211 1,4-Dichloro-2-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
212 3-Ethyltoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
213 1,2,4-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
214 beta-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
215 Hexachlorobutadiene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
216 Naphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
217 Limonene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
218 Benzaldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
219 Indan	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
220 Indene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
221 Isobutylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
222 1,2,3-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
223 2-Ethyltoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
224 1-Undecene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
225 4-Ethyl-1,2-dimethylbe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
226 1,3-Diethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
227 1,4-Diethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
228 1,2,4,5-tetramethylben	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
229 1-Dodecene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/01JUN21.b/321q0317a.m
Batch File: /chem/msd3.i/01JUN21.b
Inst ID: msd3.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
230 Nitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
231 Tridecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
232 2-Methylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
233 1,3,5-Triethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M 234 1,2-Dichloroethene (To	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M 235 Chlorobutane (Total)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M 236 Total Xylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M 237 3 and 4-Ethyltoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
238 Total Volatile Hydroca	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
239 TPH reference to Hexan	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
240 TPH reference to Hepta	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
241 TPH reference to Gasol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
242 TPH reference MineralS	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
243 TPH reference to Stodd	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
244 TVOC reference to Hexa	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
245 TVOC reference to Hept	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
246 TVOC reference to Tolu	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
247 TVOC reference to Tolu	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
248 NMOC reference to Hexa	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
249 NMOC reference to Hept	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
250 NMOC reference to Tolu	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
251 C3 - C4 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
252 C4 - C5 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
253 C5 - C6 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/01JUN21.b/321q0317a.m
Batch File: /chem/msd3.i/01JUN21.b
Inst ID: msd3.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
254 C6 - C7 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
255 C7 - C8 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
256 C8 - C9 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
257 C9 - C10 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
258 C10+ Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
259 C5 - C6 Aliphatic ref	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
260 C6-C8 Aliphatic ref He	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
261 C8-C10 Aliphatic ref D	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
262 C10-C12 Aliphatic ref	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
263 C8-C10 Aromatic	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
264 C8-C10 Aromatic ref 1,	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
265 C10-C12 Aromatic	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
266 C10-C12 Aromatic 1,2,	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
267 C10-C12 Aromatic Naph	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

01JUN21.0.3ppbv-mdl.rp

MSD3 TO1S Quad MDL
standard 3018-2045
12mL load volume
Spike concentration
0.3 ppbv

Report Date : 04-Jun-2021 14:34

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/01JUN21.b/321q0317a.m
Batch File: /chem/msd3.i/01JUN21.b
Inst ID: msd3.i

ID:	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09
FILENAME:	3060106	3060107	3060108	3060206	3060207	3060208	3060309	3060310	3060311
INJ.DATE:	01-JUN-2021	01-JUN-2021	01-JUN-2021	02-JUN-2021	02-JUN-2021	02-JUN-2021	03-JUN-2021	03-JUN-2021	03-JUN-2021
INJ.TIME:	12:41	13:07	13:34	12:50	13:16	13:42	15:30	15:56	16:22

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
1 Dimethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
2 1,1-Dichloro-1-Fluoroe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
3 Freon 143a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
4 Freon 134a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
5 Propylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
6 Propane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
7 1,1-Difluoroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
8 Freon 12	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
9 Chlorodifluoromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
10 Freon 114	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
11 Freon 14	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
12 Isobutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
13 Freon 142b	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
14 Acetaldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
15 Chloromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
16 Hexafluoropropene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
17 Freon 13	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Reviewer 1 _____ Date: 6/16/21
Reviewer 2 _____ Date: 6/16/21

$\bar{X} = 64.88$
$2\bar{X} = 129.76$
$3\bar{X} = 194.64$
$4\bar{X} = 259.52$

MDL verification
Standard # 3018-1973 (5.0ppbv)
10mL volume file # 3061507
spike concentration 0.25 ppbv

Ratio of the mean recovered concentration and MDL value is between 1-20.

US32TAR1
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Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
18 Butane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
19 Vinyl Chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
20 1,3-Butadiene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
21 Vinyl Fluoride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
22 Ethylene Oxide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
23 Methanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
24 Bromomethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
25 Isobutylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
26 2-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
27 trans-2-butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
28 1-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
29 cis-2-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
30 Chloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
31 Isopentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
32 Vinyl Bromide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
33 Freon 11	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
34 Dichlorofluoromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
35 Pentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
36 1-Pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
37 3-Methyl-1-butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
38 Ethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
39 Ethanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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Inst ID: msd3.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
40 Freon 123a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
41 Freon 123	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
42 Acrolein	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
43 Freon 113	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
44 1,1-Dichloroethene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
45 2-Chloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
46 2,3-Dimethylbutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
47 Acetone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
48 Carbon Disulfide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
49 Iodomethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
50 Isoprene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
51 2-Methyl-2-butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
52 2-Propanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
53 trans-2-Pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
54 3-Chloropropene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
55 Cyclopentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
56 Methyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
57 Acetonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
58 cis-2-Pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
59 Methylene Chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
60 Cyclopentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
61 1,2-Dichloro-1-fluoroe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
62 tert-Butyl alcohol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
63 Methyl tert-butyl ethe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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Batch File: /chem/msd3.i/01JUN21.b
Inst ID: msd3.i

PPTV RL SPRL

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
64 trans-1,2-Dichloroethe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
65 2,2-Dimethylbutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
66 Acrylonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
67 Hexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
68 1-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
69 Bromoethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
70 4-Methyl-1-pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
71 1,1-Dichloroethane	280.63	334.31	330.88	297.77	269.25	303.07	316.30	316.38	326.08	308.30	22.53	65.24
72 Isopropyl ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
73 Vinyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
74 Chloroprene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
75 1-Propanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
76 2-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
77 3-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
78 1-Chloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
79 Ethyl-tert-butyl ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
80 2-Methyl-1-pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
81 2,4-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
82 2,3-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
83 tert-Butyl chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
84 2,2-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
85 cis-1,2-Dichloroethene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
86 2-Butanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

500 300

US32TAR1
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Inst ID: msd3.i

PPTV RL SpRL

	Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
87	Ethyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
88	Methyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
89	Tetrahydrofuran	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
* 90	Bromochloromethane	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	0.00	0.00
91	trans-2-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
92	Chloroform	332.42	287.99	325.03	322.59	329.86	365.62	317.23	340.28	326.41	327.49	20.45	59.21
93	cis-2-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
94	Cyclohexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
95	Methylcyclopentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
96	1,1,1-Trichloroethane	376.39	307.03	323.45	312.86	337.84	322.48	318.64	338.31	316.45	328.16	20.87	60.45
97	Carbon Tetrachloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
98	sec-Butyl chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
99	1,1-Dichloropropene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
100	2,3,4-Trimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
101	2,2,4-Trimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
102	Benzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
103	Isobutanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
$ 104	1,2-Dichloroethane-d4	24732.82	24483.61	25193.83	26660.74	26303.99	26435.23	27396.85	27274.45	26821.81	26144.82	1080.25	3128.41
105	tert-Amyl methyl ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
106	1,2-Dichloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
107	Heptane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
* 108	1,4-Difluorobenzene	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	0.00	0.00
109	Butanal	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
110	n-Butanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

500 300

500 300

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Inst ID: msd3.i

PQTV RL SPRL

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
111 Trichloroethene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
112 Isobutyl chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
113 Ethyl acrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
114 1,2-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
115 2-Pentanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
116 Methyl Methacrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
117 1,4-Dioxane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
118 Dibromomethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
119 Methacrylonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
120 2-Chloropentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
121 2-Butanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
122 Bromodichloromethane	331.20	340.69	267.31	336.16	334.24	360.49	378.74	377.83	341.91	340.95	33.09	95.82
123 1-Bromopropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
124 Chloroacetonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
125 n-Butylchloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
126 cis-1,3-Dichloropropen	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
127 Methylcyclohexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
128 Thiophene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
129 2-Methylhexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
130 3-Methylhexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
131 4-Methyl-2-pentanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
132 Cyclohexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
$ 133 Benzene-d6	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
$ 134 Toluene-d8	25052.44	25009.73	24504.59	24843.88	25083.33	24789.81	25111.34	25186.81	25305.54	24987.50	240.58	696.71

500 300

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PPTV RL SPRL

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
135 1-Methoxy-2-propanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
136 Octane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
137 Toluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
138 1-Heptene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
139 trans-1,3-Dichloroprop	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
140 2,3-Dichloro-1-propene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
141 1,1,2-Trichloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
142 Tetrachloroethene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
143 2-Hexanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
144 1,3-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
145 Butyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
146 Dibromochloromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
147 Bromodichloroethene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
148 1,2-Dibromoethane (EDB	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
149 2-Methylheptane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
150 3-Methylheptane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
151 1-Bromo-2-Chloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
152 Diethyl Ketone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
* 153 Chlorobenzene-d5	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	0.00	0.00
154 Chlorobenzene	334.43	330.38	345.54	321.64	328.85	348.25	311.55	354.66	354.62	336.66	15.09	43.69
155 Ethyl Benzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
156 Nonane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
157 1,1,1,2-Tetrachloroeth	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
158 m,p-Xylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

500 700

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/01JUN21.b/321q0317a.m
Batch File: /chem/msd3.i/01JUN21.b
Inst ID: msd3.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
159 2-Nitropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
160 bis(chloromethyl) Ethe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
161 1-Octene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
162 Epichlorohydrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
163 2-Chloroethyl Vinyl Et	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
164 o-Xylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
165 Styrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
166 2-Heptanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
167 Bromoform	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
168 Cumene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
169 Cyclohexanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
$ 170 4-Bromofluorobenzene	26639.07	26542.32	26711.43	26659.23	26349.17	26729.05	26446.99	26674.80	26523.06	26586.12	129.20	374.17
171 Vinyl Cyclohexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
172 D-Limonene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
173 Ethyl Methacrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
174 1-Chloro-2-Bromopropan	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
175 1,1,2,2-Tetrachloroeth	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
176 1-Nitropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
177 Bromobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
178 Propylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
179 1,2,3-Trichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
180 Bromodichloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
181 trans-1,4-Dichloro-2-b	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
182 Decane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/01JUN21.b/321q0317a.m
Batch File: /chem/msd3.i/01JUN21.b
Inst ID: msd3.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
183 4-Ethyltoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
184 2-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
185 1,3,5-Trimethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
186 4-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
187 Diisobutyl Ketone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
188 alpha Methyl Styrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
189 tert-Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
190 1,2,4-Trimethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
191 Pentachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
192 sec-Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
193 bis(2-Chloroethyl) Eth	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
194 p-Cymene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
195 1,3-Dichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
196 1,4-Dichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
197 1,2,3-Trimethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
198 1-Nonene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
199 alpha-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
200 1-Chlorohexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
201 Undecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
202 Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
203 Butyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
204 1,2-Dichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
205 Hexachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/01JUN21.b/321q0317a.m
Batch File: /chem/msd3.i/01JUN21.b
Inst ID: msd3.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
206 1,2-Dibromo-3-chloropr	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
207 Dodecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
208 1,3,5-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
209 1-Decene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
210 alpha-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
211 1,4-Dichloro-2-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
212 3-Ethyltoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
213 1,2,4-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
214 beta-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
215 Hexachlorobutadiene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
216 Naphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
217 Limonene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
218 Benzaldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
219 Indan	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
220 Indene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
221 Isobutylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
222 1,2,3-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
223 2-Ethyltoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
224 1-Undecene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
225 4-Ethyl-1,2-dimethylbe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
226 1,3-Diethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
227 1,4-Diethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
228 1,2,4,5-tetramethylben	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
229 1-Dodecene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/01JUN21.b/321q0317a.m
Batch File: /chem/msd3.i/01JUN21.b
Inst ID: msd3.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
230 Nitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
231 Tridecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
232 2-Methylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
233 1,3,5-Triethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M 234 1,2-Dichloroethene (To	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M 235 Chlorobutane (Total)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M 236 Total Xylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M 237 3 and 4-Ethyltoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
238 Total Volatile Hydroca	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
239 TPH reference to Hexan	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
240 TPH reference to Hepta	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
241 TPH reference to Gasol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
242 TPH reference MineralS	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
243 TPH reference to Stodd	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
244 TVOC reference to Hexa	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
245 TVOC reference to Hept	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
246 TVOC reference to Tolu	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
247 TVOC reference to Tolu	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
248 NMOC reference to Hexa	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
249 NMOC reference to Hept	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
250 NMOC reference to Tolu	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
251 C3 - C4 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
252 C4 - C5 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
253 C5 - C6 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/01JUN21.b/321q0317a.m
Batch File: /chem/msd3.i/01JUN21.b
Inst ID: msd3.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
254 C6 - C7 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
255 C7 - C8 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
256 C8 - C9 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
257 C9 - C10 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
258 C10+ Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
259 C5 - C6 Aliphatic ref	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
260 C6-C8 Aliphatic ref He	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
261 C8-C10 Aliphatic ref D	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
262 C10-C12 Aliphatic ref	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
263 C8-C10 Aromatic	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
264 C8-C10 Aromatic ref 1,	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
265 C10-C12 Aromatic	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
266 C10-C12 Aromatic 1,2,	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
267 C10-C12 Aromatic Naph	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

04JUN21: 0.8ppbv - mdl.rp.

MSD-3 TOIS Quad MDL
Standards 3018-2045
& 3018-1973

Report Date : 15-Jun-2021 11:33

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/04JUN21.b/321q0317a.m
Batch File: /chem/msd3.i/04JUN21.b
Inst ID: msd3.i

32ml load volume
Spike concentration 0.8ppbv and Napka 0.08

ID:	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09
FILENAME:	3060406	3060407	3060408	3060707	3060708	3060709	3060808	3060809	3060810
INJ.DATE:	04-JUN-2021	04-JUN-2021	04-JUN-2021	07-JUN-2021	07-JUN-2021	07-JUN-2021	08-JUN-2021	08-JUN-2021	08-JUN-2021
INJ.TIME:	13:05	13:31	13:58	13:00	13:27	13:53	14:43	15:09	15:36

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL (PPTV)	RL	sprl
1 Dimethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
2 1,1-Dichloro-1-Fluoroe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
3 Freon 143a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
4 Freon 134a	1020.23	880.17	1137.26	943.95	891.36	853.33	1032.03	892.71	1006.14	961.91	93.26	270.08	2000	800
5 Propylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
6 Propane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
7 1,1-Difluoroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
8 Freon 12	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
9 Chlorodifluoromethane	1361.40	1219.84	962.01	1224.96	1173.73	979.39	1194.48	1247.62	1008.83	1152.47	137.65	398.63	2000	800
10 Freon 114	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
11 Freon 14	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
12 Isobutane	878.19	794.03	684.12	845.10	813.74	808.70	782.30	774.87	774.82	795.10	53.90	156.08	2000	800
13 Freon 142b	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
14 Acetaldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
15 Chloromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
16 Hexafluoropropene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
17 Freon 13	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		

Reviewer 1 _____ Date: 6/16/21
Reviewer 2 _____ Date: 6/17/21

$\bar{X}$ = 18.136
$2\bar{X}$ = 362.73
$3\bar{X}$ = 544.08
$4\bar{X}$ = 725.44

MDL verification
Napka file #3061510a
spike concentration 0.125ppbv
Standard # 3018-1973 (5.0 ppbv)
20ml Value file # 3061509
spike concentration 0.50 ppbv

Ratio of the mean recovered concentration and MDL value is between 1-20 minus Dodecane.

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/04JUN21.b/321q0317a.m
Batch File: /chem/msd3.i/04JUN21.b
Inst ID: msd3.i

PQTVRL SPRL

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL		
18 Butane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
19 Vinyl Chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
20 1,3-Butadiene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
21 Vinyl Fluoride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
22 Ethylene Oxide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
23 Methanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
24 Bromomethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
25 Isobutylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
26 2-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
27 trans-2-butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
28 1-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
29 cis-2-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
30 Chloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
31 Isopentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
32 Vinyl Bromide	783.68	843.96	823.06	874.54	969.30	862.75	804.65	796.67	834.38	843.67	55.83	161.70	2000	800
33 Freon 11	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
34 Dichlorofluoromethane	905.08	894.83	906.95	913.77	843.49	898.09	850.30	875.24	837.60	880.59	29.74	86.12	2000	800
35 Pentane	740.14	744.53	796.56	870.47	692.97	855.75	768.27	787.27	794.77	783.42	55.81	161.64	2000	800
36 1-Pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
37 3-Methyl-1-butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
38 Ethyl Ether	803.87	833.64	752.75	1085.11	920.17	831.38	749.95	878.33	685.15	837.82	116.75	338.12	2000	800
39 Ethanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/04JUN21.b/321q0317a.m
Batch File: /chem/msd3.i/04JUN21.b
Inst ID: msd3.i

PPTV RL SPRL

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL		
40 Freon 123a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
41 Freon 123	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
42 Acrolein	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
43 Freon 113	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
44 1,1-Dichloroethene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
45 2-Chloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
46 2,3-Dimethylbutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
47 Acetone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
48 Carbon Disulfide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
49 Iodomethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
50 Isoprene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
51 2-Methyl-2-butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
52 2-Propanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
53 trans-2-Pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
54 3-Chloropropene	901.59	898.26	821.32	851.78	966.60	747.03	805.43	779.77	900.80	852.51	70.23	203.39	2000	800
55 Cyclopentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
56 Methyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
57 Acetonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
58 cis-2-Pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
59 Methylene Chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
60 Cyclopentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
61 1,2-Dichloro-1-fluoroe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
62 tert-Butyl alcohol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
63 Methyl tert-butyl ethe	778.85	724.05	719.70	833.74	759.76	807.87	747.85	783.09	830.76	776.18	42.32	122.57	2000	800

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METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/04JUN21.b/321q0317a.m
Batch File: /chem/msd3.i/04JUN21.b
Inst ID: msd3.i

PPTV RL SPRL

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
64 trans-1,2-Dichloroethe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
65 2,2-Dimethylbutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
66 Acrylonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
67 Hexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
68 1-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
69 Bromoethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
70 4-Methyl-1-pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
71 1,1-Dichloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
72 Isopropyl ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
73 Vinyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
74 Chloroprene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
75 1-Propanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
76 2-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
77 3-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
78 1-Chloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
79 Ethyl-tert-butyl ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
80 2-Methyl-1-pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
81 2,4-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
82 2,3-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
83 tert-Butyl chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
84 2,2-Dichloropropane	871.58	818.11	897.42	892.83	834.53	857.33	830.86	860.00	863.58	858.47	27.07	78.41
85 cis-1,2-Dichloroethene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
86 2-Butanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

2000 800

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/04JUN21.b/321q0317a.m
Batch File: /chem/msd3.i/04JUN21.b
Inst ID: msd3.i

PQTV RL SPRL

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
87 Ethyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
88 Methyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
89 Tetrahydrofuran	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
* 90 Bromochloromethane	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	0.00	0.00
91 trans-2-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
92 Chloroform	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
93 cis-2-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
94 Cyclohexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
95 Methylcyclopentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
96 1,1,1-Trichloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
97 Carbon Tetrachloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
98 sec-Butyl chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
99 1,1-Dichloropropene	899.88	905.84	829.55	980.05	897.19	789.24	789.83	884.79	788.68	862.78	67.06	194.21
100 2,3,4-Trimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
101 2,2,4-Trimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
102 Benzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
103 Isobutanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
$ 104 1,2-Dichloroethane-d4	27490.57	26926.33	27656.30	27169.14	26370.11	26940.63	26165.27	26835.14	27387.76	26993.47	497.45	1440.61
105 tert-Amyl methyl ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
106 1,2-Dichloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
107 Heptane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
* 108 1,4-Difluorobenzene	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	0.00	0.00
109 Butanal	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
110 n-Butanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

2000 800

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METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/04JUN21.b/321q0317a.m
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Inst ID: msd3.i

PPTV RL SPRL

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
111 Trichloroethene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
112 Isobutyl chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
113 Ethyl acrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
114 1,2-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
115 2-Pentanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
116 Methyl Methacrylate	655.66	687.48	633.20	608.87	671.67	722.86	704.74	698.78	655.65	670.99	36.45	105.57
117 1,4-Dioxane	772.62	846.73	843.41	798.64	795.20	863.42	854.90	857.64	796.94	825.50	34.20	99.05
118 Dibromomethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
119 Methacrylonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
120 2-Chloropentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
121 2-Butanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
122 Bromodichloromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
123 1-Bromopropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
124 Chloroacetonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
125 n-Butylchloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
126 cis-1,3-Dichloropropen	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
127 Methylcyclohexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
128 Thiophene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
129 2-Methylhexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
130 3-Methylhexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
131 4-Methyl-2-pentanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
132 Cyclohexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
$ 133 Benzene-d6	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
$ 134 Toluene-d8	24688.19	25025.38	24938.39	25296.89	25010.04	25129.01	24732.71	24853.10	24734.30	24934.22	203.48	589.28

2000 800
2000 800

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METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/04JUN21.b/321q0317a.m
Batch File: /chem/msd3.i/04JUN21.b
Inst ID: msd3.i

PPTV RL SPRL

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
135 1-Methoxy-2-propanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
136 Octane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
137 Toluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
138 1-Heptene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
139 trans-1,3-Dichloroprop	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
140 2,3-Dichloro-1-propene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
141 1,1,2-Trichloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
142 Tetrachloroethene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
143 2-Hexanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
144 1,3-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
145 Butyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
146 Dibromochloromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
147 Bromodichloroethene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
148 1,2-Dibromoethane (EDB	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
149 2-Methylheptane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
150 3-Methylheptane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
151 1-Bromo-2-Chloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
152 Diethyl Ketone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
* 153 Chlorobenzene-d5	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	0.00	0.00
154 Chlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
155 Ethyl Benzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
156 Nonane	768.89	759.40	673.44	706.68	690.61	692.59	714.72	748.57	723.94	719.87	33.10	95.85
157 1,1,1,2-Tetrachloroeth	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
158 m,p-Xylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

2000 300

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METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/04JUN21.b/321q0317a.m
Batch File: /chem/msd3.i/04JUN21.b
Inst ID: msd3.i

PPTV RL SPRL

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL	
159 2-Nitropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
160 bis(chloromethyl) Ethe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
161 1-Octene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
162 Epichlorohydrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
163 2-Chloroethyl Vinyl Et	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
164 o-Xylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
165 Styrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
166 2-Heptanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
167 Bromoform	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
168 Cumene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
169 Cyclohexanone	717.42	667.63	709.26	677.52	710.73	716.14	753.63	864.92	825.56	738.09	66.24	191.82	2000 800
$ 170 4-Bromofluorobenzene	26725.29	26946.13	26904.46	26509.83	26650.79	26586.99	26867.07	26857.17	26525.59	26730.37	169.23	490.09	
171 Vinyl Cyclohexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
172 D-Limonene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
173 Ethyl Methacrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
174 1-Chloro-2-Bromopropan	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
175 1,1,2,2-Tetrachloroeth	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
176 1-Nitropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
177 Bromobenzene	836.90	856.61	830.42	879.25	816.64	875.30	838.05	875.70	897.36	856.25	27.16	98.67	2000 800
178 Propylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
179 1,2,3-Trichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
180 Bromodichloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
181 trans-1,4-Dichloro-2-b	810.42	662.40	714.50	617.17	597.39	694.13	795.48	717.51	707.98	701.88	71.32	206.55	2000 800
182 Decane	881.51	765.94	920.42	810.18	785.49	795.67	690.77	760.67	748.96	795.51	69.41	201.01	2000 800

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/04JUN21.b/321q0317a.m
Batch File: /chem/msd3.i/04JUN21.b
Inst ID: msd3.i

PPTV RL SPRL MDL Blank

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
183 4-Ethyltoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
184 2-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
185 1,3,5-Trimethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
186 4-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
187 Diisobutyl Ketone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
188 alpha Methyl Styrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
189 tert-Butylbenzene	794.34	808.05	771.83	740.78	800.67	812.76	806.77	826.59	806.85	796.51	25.62	74.20
190 1,2,4-Trimethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
191 Pentachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
192 sec-Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
193 bis(2-Chloroethyl) Eth	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
194 p-Cymene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
195 1,3-Dichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
196 1,4-Dichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
197 1,2,3-Trimethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
198 1-Nonene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
199 alpha-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
200 1-Chlorohexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
201 Undecane	477.93	619.00	628.30	482.52	641.52	659.51	448.67	644.95	677.96	586.71	89.82	260.11
202 Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
203 Butyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
204 1,2-Dichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
205 Hexachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

2000 800

2000 800 94.31 ~~127.04~~ UP 6/17/21

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/04JUN21.b/321q0317a.m
Batch File: /chem/msd3.i/04JUN21.b
Inst ID: msd3.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
206 1,2-Dibromo-3-chloropr	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
207 Dodecane	140.32	409.60	509.31	198.46	454.37	517.47	291.67	482.12	574.24	397.51	152.33	441.14
208 1,3,5-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
209 1-Decene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
210 alpha-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
211 1,4-Dichloro-2-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
212 3-Ethyltoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
213 1,2,4-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
214 beta-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
215 Hexachlorobutadiene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
216 Naphthalene	36.66	67.50	84.44	37.01	70.86	89.41	46.82	88.21	90.79	67.97	22.52	65.21
217 Limonene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
218 Benzaldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
219 Indan	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
220 Indene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
221 Isobutylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
222 1,2,3-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
223 2-Ethyltoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
224 1-Undecene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
225 4-Ethyl-1,2-dimethylbe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
226 1,3-Diethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
227 1,4-Diethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
228 1,2,4,5-tetramethylben	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
229 1-Dodecene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

RL SPRL MDLBlank

2000 800 42.10

1000 800 55. ~~32.~~ UG

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/04JUN21.b/321q0317a.m
Batch File: /chem/msd3.i/04JUN21.b
Inst ID: msd3.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
230 Nitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
231 Tridecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
232 2-Methylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
233 1,3,5-Triethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M 234 1,2-Dichloroethene (To	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M 235 Chlorobutane (Total)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M 236 Total Xylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M 237 3 and 4-Ethyltoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
238 Total Volatile Hydroca	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
239 TPH reference to Hexan	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
240 TPH reference to Hepta	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
241 TPH reference to Gasol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
242 TPH reference MineralS	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
243 TPH reference to Stodd	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
244 TVOC reference to Hexa	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
245 TVOC reference to Hept	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
246 TVOC reference to Tolu	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
247 TVOC reference to Tolu	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
248 NMOC reference to Hexa	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
249 NMOC reference to Hept	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
250 NMOC reference to Tolu	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
251 C3 - C4 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
252 C4 - C5 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
253 C5 - C6 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/04JUN21.b/321q0317a.m
Batch File: /chem/msd3.i/04JUN21.b
Inst ID: msd3.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
254 C6 - C7 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
255 C7 - C8 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
256 C8 - C9 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
257 C9 - C10 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
258 C10+ Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
259 C5 - C6 Aliphatic ref	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
260 C6-C8 Aliphatic ref He	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
261 C8-C10 Aliphatic ref D	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
262 C10-C12 Aliphatic ref	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
263 C8-C10 Aromatic	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
264 C8-C10 Aromatic ref 1,	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
265 C10-C12 Aromatic	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
266 C10-C12 Aromatic 1,2,	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
267 C10-C12 Aromatic Naph	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

04JUN21: 2.0 ppbv_mdl.rp

MSD-3 TO15 Quad MDL
Standards 3018-2045
&

Report Date : 15-Jun-2021 11:51

 3018-1973
80 mL load volume
Spike concentration
2.0 ppbv

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/04JUN21.b/321q0317a.m
Batch File: /chem/msd3.i/04JUN21.b
Inst ID: msd3.i

ID:	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09
FILENAME:	3060409	3060410	3060411	3060710	3060711	3060712	3060811	3060812	3060813
INJ.DATE:	04-JUN-2021	04-JUN-2021	04-JUN-2021	07-JUN-2021	07-JUN-2021	07-JUN-2021	08-JUN-2021	08-JUN-2021	08-JUN-2021
INJ.TIME:	14:24	14:51	15:18	14:20	14:47	15:14	16:03	16:30	16:57

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL	PQTV	RL	SPRL
1 Dimethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
2 1,1-Dichloro-1-Fluoroe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
3 Freon 143a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
4 Freon 134a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
5 Propylene	1895.27	1886.72	2016.75	2124.37	2008.50	2054.54	2262.16	1965.02	1844.81	2006.46	130.51	377.95	2000	2000	
6 Propane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
7 1,1-Difluoroethane	1772.53	1771.55	2123.15	1910.86	1785.64	1982.54	1961.37	1901.37	2087.22	1921.80	130.91	379.11	2000	2000	
8 Freon 12	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
9 Chlorodifluoromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
10 Freon 114	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
11 Freon 14	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
12 Isobutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
13 Freon 142b	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
14 Acetaldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
15 Chloromethane	2446.43	2396.33	2229.58	2457.74	2520.19	2184.14	1960.47	2164.84	2410.41	2307.79	182.91	529.72	5000	5000	
16 Hexafluoropropene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
17 Freon 13	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			

Reviewer 1 _____ Date: 6/17/21
Reviewer 2 _____ Date: _____

$\bar{X}$ = 355.52
$2\bar{X}$ = 711.04
$3\bar{X}$ = 1066.56
$4\bar{X}$ = 1422.08

MDL Verification
Standard # 3018-1973 (5.0ppbv)
50 ml volume file # 3061510
Spike concentration 1.25ppbv

Ratio of the mean recovered concentration and MDL value is between 1-20.

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/04JUN21.b/321q0317a.m
Batch File: /chem/msd3.i/04JUN21.b
Inst ID: msd3.i

PQL RL SPRL

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL		
18 Butane	3183.45	2279.06	3026.36	2558.65	3212.02	2317.47	2489.83	2920.02	2728.77	2746.18	357.09	1034.13	2000	2000
19 Vinyl Chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
20 1,3-Butadiene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
21 Vinyl Fluoride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
22 Ethylene Oxide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
23 Methanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
24 Bromomethane	2395.51	2439.94	2380.81	2531.05	2511.35	2478.22	2328.68	2332.32	2346.02	2415.99	77.42	224.22	5000	5000
25 Isobutylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
26 2-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
27 trans-2-butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
28 1-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
29 cis-2-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
30 Chloroethane	1880.59	1938.87	2234.46	2059.51	2192.55	1963.37	2222.99	1965.71	1925.32	2042.60	139.23	403.20	2000	2000
31 Isopentane	1900.93	1823.40	1959.41	1734.97	1927.37	1869.93	1974.60	2015.10	1844.44	1894.46	86.54	250.61	2000	2000
32 Vinyl Bromide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
33 Freon 11	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
34 Dichlorofluoromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
35 Pentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
36 1-Pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
37 3-Methyl-1-butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
38 Ethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
39 Ethanol	2224.57	2056.44	2095.67	2045.09	1935.11	2001.72	1584.64	1981.08	1778.21	1966.95	187.50	643.01	5000	5000

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/04JUN21.b/321q0317a.m
Batch File: /chem/msd3.i/04JUN21.b
Inst ID: msd3.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
40 Freon 123a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
41 Freon 123	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
42 Acrolein	2183.92	2172.73	1737.46	1732.35	1757.32	1896.96	1777.44	1555.18	1856.45	1852.20	207.71	601.53
43 Freon 113	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
44 1,1-Dichloroethene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
45 2-Chloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
46 2,3-Dimethylbutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
47 Acetone	2147.22	2237.76	2296.68	2131.30	2222.89	2159.67	2322.43	2173.11	2217.20	2212.03	66.27	191.92
48 Carbon Disulfide	1934.24	1985.16	2039.49	2049.09	2040.18	2100.17	2073.16	2126.95	1990.51	2037.66	60.16	174.23
49 Iodomethane	1589.11	1635.17	1581.92	1587.37	1613.22	1691.75	1811.64	1803.18	1757.05	1674.49	94.36	273.27
50 Isoprene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
51 2-Methyl-2-butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
52 2-Propanol	1794.36	1822.54	1711.42	1791.57	1797.78	1796.45	1798.99	1857.55	1717.83	1787.61	46.31	134.12
53 trans-2-Pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
54 3-Chloropropene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
55 Cyclopentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
56 Methyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
57 Acetonitrile	2218.44	1733.46	1851.28	2534.21	2300.44	2012.33	1876.98	2324.73	2139.38	2110.14	261.61	757.62
58 cis-2-Pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
59 Methylene Chloride	2074.20	1893.47	1964.98	1963.63	1866.35	2124.24	1845.83	1971.89	1853.78	1950.93	98.09	284.07
60 Cyclopentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
61 1,2-Dichloro-1-fluoroe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
62 tert-Butyl alcohol	1956.21	1860.61	2011.15	1914.12	2020.15	1968.71	2013.42	1901.20	1866.05	1945.74	62.86	182.05
63 Methyl tert-butyl ethe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

PPTV RL SPRL MDL Blank

2000 2000
5000 5000
2000 2000
2000 2000
5000 5000
2000 2000

359.44
478.89
469.09
112.66

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/04JUN21.b/321q0317a.m
Batch File: /chem/msd3.i/04JUN21.b
Inst ID: msd3.i

PPTV RL SPRL

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL		
64 trans-1,2-Dichloroethe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
65 2,2-Dimethylbutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
66 Acrylonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
67 Hexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
68 1-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
69 Bromoethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
70 4-Methyl-1-pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
71 1,1-Dichloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
72 Isopropyl ether	1603.29	1674.62	1673.98	1668.64	1676.93	1665.61	1752.29	1740.61	1633.26	1676.58	46.47	134.57	2000	2000
73 Vinyl Acetate	1822.00	1897.09	1775.47	1954.36	1918.14	1849.38	1773.45	1506.56	1930.17	1825.18	136.37	394.94	2000	2000
74 Chloroprene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
75 1-Propanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
76 2-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
77 3-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
78 1-Chloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
79 Ethyl-tert-butyl ether	1680.62	1698.95	1744.65	1759.02	1820.78	1765.83	1823.59	1807.51	1728.22	1758.80	51.59	149.40	2000	2000
80 2-Methyl-1-pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
81 2,4-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
82 2,3-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
83 tert-Butyl chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
84 2,2-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
85 cis-1,2-Dichloroethene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
86 2-Butanone	1718.93	1997.91	1789.77	1970.41	1908.84	2026.98	1936.14	1728.27	2009.26	1898.50	121.65	352.31	2000	2000

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/04JUN21.b/321q0317a.m
Batch File: /chem/msd3.i/04JUN21.b
Inst ID: msd3.i

PPTV RL SpRL

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL		
87 Ethyl Acetate	1716.25	1997.76	2140.83	2102.54	2320.20	1795.83	2259.67	2103.62	2003.39	2048.90	197.40	571.67	2000	2000
88 Methyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
89 Tetrahydrofuran	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
* 90 Bromochloromethane	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	0.00	0.00		
91 trans-2-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
92 Chloroform	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
93 cis-2-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
94 Cyclohexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
95 Methylcyclopentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
96 1,1,1-Trichloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
97 Carbon Tetrachloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
98 sec-Butyl chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
99 1,1-Dichloropropene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
100 2,3,4-Trimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
101 2,2,4-Trimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
102 Benzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
103 Isobutanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
$ 104 1,2-Dichloroethane-d4	27065.78	27211.11	27839.35	26921.86	27261.09	27437.37	27796.97	27288.39	27087.91	27323.31	317.07	918.22		
105 tert-Amyl methyl ether	1898.82	1883.77	1874.83	2063.71	1929.81	2037.46	2151.64	2086.73	2020.48	1994.14	100.27	290.38	2000	2000
106 1,2-Dichloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
107 Heptane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
* 108 1,4-Difluorobenzene	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	0.00	0.00		
109 Butanal	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
110 n-Butanol	1805.09	1680.56	1702.49	1641.93	1728.46	1636.98	2012.85	1909.70	1958.21	1786.25	141.93	411.03	2000	2000

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/04JUN21.b/321q0317a.m
Batch File: /chem/msd3.i/04JUN21.b
Inst ID: msd3.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
111 Trichloroethene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
112 Isobutyl chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
113 Ethyl acrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
114 1,2-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
115 2-Pentanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
116 Methyl Methacrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
117 1,4-Dioxane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
118 Dibromomethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
119 Methacrylonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
120 2-Chloropentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
121 2-Butanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
122 Bromodichloromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
123 1-Bromopropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
124 Chloroacetonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
125 n-Butylchloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
126 cis-1,3-Dichloropropen	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
127 Methylcyclohexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
128 Thiophene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
129 2-Methylhexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
130 3-Methylhexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
131 4-Methyl-2-pentanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
132 Cyclohexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
$ 133 Benzene-d6	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
$ 134 Toluene-d8	25056.76	24865.10	25701.80	25100.41	24712.41	25001.62	25005.75	25024.33	25090.63	25062.09	269.46	780.36

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METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/04JUN21.b/321q0317a.m
Batch File: /chem/msd3.i/04JUN21.b
Inst ID: msd3.i

PPTV RL SPRL

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL	
135 1-Methoxy-2-propanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
136 Octane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
137 Toluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
138 1-Heptene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
139 trans-1,3-Dichloroprop	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
140 2,3-Dichloro-1-propene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
141 1,1,2-Trichloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
142 Tetrachloroethene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
143 2-Hexanone	1468.29	1603.58	1609.32	1602.55	1560.39	1549.62	1655.20	1643.82	1638.50	1592.36	58.61	169.75	2000 2000
144 1,3-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
145 Butyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
146 Dibromochloromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
147 Bromodichloroethene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
148 1,2-Dibromoethane (EDB	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
149 2-Methylheptane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
150 3-Methylheptane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
151 1-Bromo-2-Chloroethane	1973.65	1911.11	1988.34	1949.81	1904.01	1949.84	1903.35	1999.37	1964.31	1949.31	36.18	104.78	2000 2000
152 Diethyl Ketone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
* 153 Chlorobenzene-d5	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	0.00	0.00	
154 Chlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
155 Ethyl Benzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
156 Nonane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
157 1,1,1,2-Tetrachloroeth	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
158 m,p-Xylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/04JUN21.b/321q0317a.m
Batch File: /chem/msd3.i/04JUN21.b
Inst ID: msd3.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
159 2-Nitropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
160 bis(chloromethyl) Ethe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
161 1-Octene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
162 Epichlorohydrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
163 2-Chloroethyl Vinyl Et	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
164 o-Xylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
165 Styrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
166 2-Heptanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
167 Bromoform	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
168 Cumene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
169 Cyclohexanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
$ 170 4-Bromofluorobenzene	26871.86	26931.67	26614.16	26384.82	26782.21	26706.69	26303.23	26768.32	26674.45	26670.82	209.70	607.29
171 Vinyl Cyclohexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
172 D-Limonene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
173 Ethyl Methacrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
174 1-Chloro-2-Bromopropan	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
175 1,1,2,2-Tetrachloroeth	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
176 1-Nitropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
177 Bromobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
178 Propylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
179 1,2,3-Trichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
180 Bromodichloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
181 trans-1,4-Dichloro-2-b	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
182 Decane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/04JUN21.b/321q0317a.m
Batch File: /chem/msd3.i/04JUN21.b
Inst ID: msd3.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
183 4-Ethyltoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
184 2-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
185 1,3,5-Trimethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
186 4-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
187 Diisobutyl Ketone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
188 alpha Methyl Styrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
189 tert-Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
190 1,2,4-Trimethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
191 Pentachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
192 sec-Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
193 bis(2-Chloroethyl) Eth	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
194 p-Cymene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
195 1,3-Dichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
196 1,4-Dichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
197 1,2,3-Trimethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
198 1-Nonene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
199 alpha-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
200 1-Chlorohexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
201 Undecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
202 Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
203 Butyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
204 1,2-Dichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
205 Hexachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/04JUN21.b/321q0317a.m
Batch File: /chem/msd3.i/04JUN21.b
Inst ID: msd3.i

PPTV RL SQRL MDL Blank

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
206 1,2-Dibromo-3-chloropr	1951.44	1947.16	1977.57	2027.39	2008.69	1987.45	2081.78	2090.32	2136.24	2023.12	66.36	192.19
207 Dodecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
208 1,3,5-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
209 1-Decene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
210 alpha-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
211 1,4-Dichloro-2-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
212 3-Ethyltoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
213 1,2,4-Trichlorobenzene	2631.64	2783.53	2686.74	2587.93	2673.01	2725.71	2667.73	2760.52	2834.63	2705.72	77.71	225.05
214 beta-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
215 Hexachlorobutadiene	2747.79	2829.99	2973.42	2724.50	2871.60	2809.93	2783.77	2891.54	2843.95	2830.72	76.41	221.28
216 Naphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
217 Limonene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
218 Benzaldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
219 Indan	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
220 Indene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
221 Isobutylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
222 1,2,3-Trichlorobenzene	2702.06	2769.93	2767.74	2604.14	2729.64	2813.98	2773.79	2903.83	2934.27	2777.71	100.04	289.72
223 2-Ethyltoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
224 1-Undecene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
225 4-Ethyl-1,2-dimethylbe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
226 1,3-Diethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
227 1,4-Diethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
228 1,2,4,5-tetramethylben	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
229 1-Dodecene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

206: 2000 2000
213: 2000 2000 65.15
215: 2000 2000 45.73
222: 2000 2000 87.49

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/04JUN21.b/321q0317a.m
Batch File: /chem/msd3.i/04JUN21.b
Inst ID: msd3.i

	Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
	230 Nitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	231 Tridecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	232 2-Methylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	233 1,3,5-Triethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M	234 1,2-Dichloroethene (To	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M	235 Chlorobutane (Total)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M	236 Total Xylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M	237 3 and 4-Ethyltoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	238 Total Volatile Hydroca	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	239 TPH reference to Hexan	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	240 TPH reference to Hepta	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	241 TPH reference to Gasol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	242 TPH reference MineralS	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	243 TPH reference to Stodd	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	244 TVOC reference to Hexa	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	245 TVOC reference to Hept	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	246 TVOC reference to Tolu	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	247 TVOC reference to Tolu	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	248 NMOC reference to Hexa	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	249 NMOC reference to Hept	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	250 NMOC reference to Tolu	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	251 C3 - C4 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	252 C4 - C5 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	253 C5 - C6 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/04JUN21.b/321q0317a.m
Batch File: /chem/msd3.i/04JUN21.b
Inst ID: msd3.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
254 C6 - C7 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
255 C7 - C8 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
256 C8 - C9 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
257 C9 - C10 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
258 C10+ Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
259 C5 - C6 Aliphatic ref	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
260 C6-C8 Aliphatic ref He	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
261 C8-C10 Aliphatic ref D	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
262 C10-C12 Aliphatic ref	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
263 C8-C10 Aromatic	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
264 C8-C10 Aromatic ref 1,	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
265 C10-C12 Aromatic	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
266 C10-C12 Aromatic 1,2,	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
267 C10-C12 Aromatic Naph	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

03MAY21.EPALB-mdl.rpt

MSD-3 Blank MDL

Can# 35157

Report Date : 17-JUN-2021 13:23

US32TAR1

SPIKED METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/05MAY21.b/321q0317a.m

Batch File: /chem/msd3.i/05MAY21.b

Instrument Names: msd3.i

Student T 2.896 for 9 Replicates with 99% Confidence

	Spiked ID(s)	Spiked Vol(s)

ID:	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09
FILENAME:	3050306EPALB	3050307EPALB	3050308EPALB	3050406EPALB	3050407EPALB	3050408EPALB	3050506EPALB	3050507EPALB	3050508EPALB
INJ.DATE:	03-MAY-2021	03-MAY-2021	03-MAY-2021	04-MAY-2021	04-MAY-2021	04-MAY-2021	05-MAY-2021	05-MAY-2021	05-MAY-2021
INJ.TIME:	11:47	13:00	13:29	13:28	14:13	14:42	12:40	13:28	13:58

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	SPK AMT	RL	RATIO	MDL
1 Freon 134a	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.800	1.00	0.000000
2 Propylene	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	2.00	1.00	0.000000
3 1,1-Difluoroethane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	2.00	1.00	0.000000
4 Freon 12	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000
5 Chlorodifluoromethane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.800	1.00	0.000000
6 Freon 114	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000
7 Isobutane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.800	1.00	0.000000
8 Chloromethane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	5.00	1.00	0.000000
9 Butane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	2.00	1.00	0.000000
10 Vinyl Chloride	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000
11 1,3-Butadiene	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000
12 Bromomethane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	5.00	1.00	0.000000
13 Chloroethane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	2.00	1.00	0.000000
14 Isopentane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	2.00	1.00	0.000000
15 Vinyl Bromide	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.800	1.00	0.000000
16 Freon 11	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000
17 Dichlorofluoromethane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.800	1.00	0.000000
18 Pentane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.800	1.00	0.000000
19 Ethanol	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	5.00	1.00	0.000000
20 Ethyl Ether	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.800	1.00	0.000000
21 Acrolein	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	2.00	1.00	0.000000

Reviewer 1 _____ Date: 6/17/21

Reviewer 2 _____ Date: 6/17/21

US32TAR1

SPIKED METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/05MAY21.b/321q0317a.m

Batch File: /chem/msd3.i/05MAY21.b

Instrument Names: msd3.i

PPTV

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	SPK AMT	RL	RATIO	MDL	
22 Freon 113	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000	
23 1,1-Dichloroethene	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.500	1.00	0.000000	
24 Acetone 359.44	298.34	251.09	309.57	0.000000	359.44	92.36	167.90	235.09	194.44	212.03	113.07	0.000000	5.00	0.647	327.46	Ratio 1
25 Iodomethane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	2.00	1.00	0.000000	
26 Carbon Disulfide 469.09	339.14	319.54	300.16	139.62	136.38	122.01	154.39	119.39	122.79	194.82	94.71	0.000000	2.00	0.710	274.27	Ratio 1
27 2-Propanol 112.66	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	112.66	0.000000	0.000000	12.52	37.55	0.000000	2.00	0.115	108.75	Ratio 1
28 3-Chloropropene	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.800	1.00	0.000000	
29 Acetonitrile	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	2.00	1.00	0.000000	
30 Methylene Chloride	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	5.00	1.00	0.000000	
31 tert-Butyl alcohol	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	2.00	1.00	0.000000	
32 Methyl tert-butyl ether	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.800	1.00	0.000000	
33 trans-1,2-Dichloroethene	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000	
34 Acrylonitrile	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.500	1.00	0.000000	
35 Hexane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.500	1.00	0.000000	
36 Isopropyl ether	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	2.00	1.00	0.000000	
37 1,1-Dichloroethane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.300	1.00	0.000000	
38 Vinyl Acetate	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	2.00	1.00	0.000000	
39 Ethyl-tert-butyl ether	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	2.00	1.00	0.000000	
40 2,2-Dichloropropane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.800	1.00	0.000000	
41 cis-1,2-Dichloroethene	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000	
42 2-Butanone	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	2.00	1.00	0.000000	
43 Ethyl Acetate	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	2.00	1.00	0.000000	
44 Tetrahydrofuran	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.500	1.00	0.000000	
* 45 Bromochloromethane	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	0.000000	0.000000	2.00	1.00	0.000000	
46 Chloroform	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.300	1.00	0.000000	
47 Cyclohexane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000	
48 1,1,1-Trichloroethane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.300	1.00	0.000000	
49 Carbon Tetrachloride	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.500	1.00	0.000000	

Reviewer 1 _____ Date:_____

Reviewer 2 _____ Date:_____

US32TAR1

SPIKED METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/05MAY21.b/321q0317a.m

Batch File: /chem/msd3.i/05MAY21.b

Instrument Names: msd3.i

PPTV

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	SPK AMT	RL	RATIO	MDL	
50 1,1-Dichloropropene	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.800	1.00	0.000000	
51 2,2,4-Trimethylpentane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000	
52 Benzene	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000	
$ 53 1,2-Dichloroethane-d4	23867.00	23965.00	25269.00	24324.00	25031.00	24883.00	24739.00	25158.00	25187.00	24713.67	534.92	0.000000	2.00	15.95	1549.11	
54 tert-Amyl methyl ether	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	2.00	1.00	0.000000	
55 1,2-Dichloroethane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.500	1.00	0.000000	
56 Heptane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.500	1.00	0.000000	
* 57 1,4-Difluorobenzene	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	0.000000	0.000000	2.00	1.00	0.000000	
58 n-Butanol	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	2.00	1.00	0.000000	
59 Trichloroethene	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000	
60 Methylcyclohexane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000	
61 1,2-Dichloropropane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000	
62 Methyl Methacrylate	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.800	1.00	0.000000	
63 1,4-Dioxane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.800	1.00	0.000000	
64 Dibromomethane 80.81	33.73	43.38	30.60	51.13	65.68	44.43	49.34	18.84	35.12	41.36	13.62	0.000000	0.400	1.05	39.45	
65 Bromodichloromethane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.300	1.00	0.000000	
66 1-Bromo-2-Chloroethane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	2.00	1.00	0.000000	
67 cis-1,3-Dichloropropene	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000	
68 4-Methyl-2-pentanone	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000	
$ 69 Toluene-d8	24542.00	24548.00	25114.00	24548.00	24850.00	24479.00	24603.00	25251.00	25182.00	24790.78	313.26	0.000000	2.00	27.33	907.21	
70 Toluene 120.97	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	120.97	62.39	56.94	26.70	43.81	0.000000	0.400	0.210	126.86	Ratio 1
71 Octane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000	
72 trans-1,3-Dichloropropene	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000	
73 1,1,2-Trichloroethane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000	
74 Tetrachloroethene 88.47	88.47	42.69	0.000000	59.53	47.20	0.000000	0.000000	0.000000	0.000000	26.43	33.79	0.000000	0.400	0.270	97.85	Ratio 1
75 1,3-Dichloropropane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.500	1.00	0.000000	
76 2-Hexanone	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	2.00	1.00	0.000000	
77 Dibromochloromethane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000	
78 1,2-Dibromoethane (EDB)	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.500	1.00	0.000000	
* 79 Chlorobenzene-d5	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	0.000000	0.000000	2.00	1.00	0.000000	

PPTV

80	Chlorobenzene	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.300	1.00	0.000000		
81	Ethyl Benzene	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000		
82	Nonane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.800	1.00	0.000000		
83	1,1,1,2-Tetrachloroethane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000		
84	m,p-Xylene 273.15	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	273.15	94.60	44.99	45.86	91.28	0.000000	0.500	0.173	264.35	Ratio 1
85	o-Xylene 133.68	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	133.68	32.71	28.38	21.64	44.06	0.000000	0.400	0.170	127.60	Ratio 1
86	Styrene	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000		
87	Bromoform	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000		
88	Cumene	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.500	1.00	0.000000		
89	Cyclohexanone	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.800	1.00	0.000000		
$ 90	4-Bromofluorobenzene	25896.00	25913.00	25874.00	25941.00	26040.00	26188.00	26321.00	25639.00	25907.00	25968.78	196.19	0.000000	2.00	45.71	568.17	
91	Bromobenzene	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.800	1.00	0.000000		
92	1,1,2,2-Tetrachloroethane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000		
93	Propylbenzene	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000		
94	1,2,3-Trichloropropane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000		
95	trans-1,4-Dichloro-2-butene	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.800	1.00	0.000000		
96	Decane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.800	1.00	0.000000		
97	4-Ethyltoluene 126.94	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	126.94	29.81	0.000000	17.42	42.24	0.000000	0.400	0.142	122.32	Rat:
98	2-Chlorotoluene	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000		
99	1,3,5-Trimethylbenzene 77.63	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	77.63	5.00	0.000000	9.18	25.72	0.000000	0.400	0.123	74.49	Rat.
100	alpha Methyl Styrene	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000		
101	tert-Butylbenzene	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.800	1.00	0.000000		
102	1,2,4-Trimethylbenzene 185.07	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	185.07	47.06	23.44	28.40	60.99	0.000000	0.500	0.161	176.63	Ratio 1
103	sec-Butylbenzene	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.500	1.00	0.000000		
104	p-Cymene	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.500	1.00	0.000000		
105	1,3-Dichlorobenzene	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000		
106	1,4-Dichlorobenzene	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000		
107	alpha-Chlorotoluene	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.500	1.00	0.000000		
108	Undecane 94.31	74.50	80.07	0.000000	85.85	94.31	68.53	77.68	68.54	69.88	68.82	27.19	0.000000	0.800	0.874	78.74	Ratio 1
109	Butylbenzene 27.37	27.37	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	3.04	9.12	0.000000	0.400	0.115	26.42	Ratio 1
110	1,2-Dichlorobenzene	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	7.95	0.000000	0.000000	0.884	2.65	0.000000	0.400	0.115	7.68	Ratio 1
111	1,2-Dibromo-3-chloropropane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	2.00	1.00	0.000000		
112	Dodecane 42.10	0.000000	0.000000	0.000000	11.78	13.12	12.16	42.10	17.61	0.000000	10.75	13.70	0.000000	0.800	0.271	39.66	Ratio 1
113	1,2,4-Trichlorobenzene 65.15	65.15	36.30	12.86	45.67	0.000000	0.000000	39.09	14.59	0.000000	23.74	23.67	0.000000	2.00	0.346	68.55	Ratio 1
114	Hexachlorobutadiene 45.73	45.73	14.83	0.000000	14.55	0.000000	0.000000	32.75	12.37	0.000000	13.36	16.36	0.000000	2.00	0.282	47.39	Ratio 1
115	Naphthalene 55.54	15.72	12.13	7.63	12.71	9.23	3.10	32.18	14.80	12.07	13.29	8.07	0.000000	0.800	0.569	23.36	Ratio 1
116	1,2,3-Trichlorobenzene 87.49	87.49	47.85	0.000000	46.72	26.16	23.57	49.71	16.01	0.000000	33.06	27.97	0.000000	2.00	0.408	81.01	Ratio 1

Reviewer 1 _____ Date:_____

Reviewer 2 _____ Date:_____

MSD-3 MDL Case Narrative

A Method Detection Limit study for select TA TO-15 specials was performed on 05/03/21, 05/04/24, and 05/05/21.

The MDL was performed at:

- 0.4ppbv(5.0ppbv->0.4ppbv) for 1,1,1,2-tetrachloroethane;16ml of #3018-1908

MDL verification was analyzed on 06/03/21:

- 3060308: (for 1,1,1,2-tetrachloroethane only). 5.0ppbv->0.25ppbv. 10ml of #3018-2078

No MDL values were taken from the MDL blank.

MDL expires 5/05/22

03MAY21: 1112PCE-mdl.rp

TO15Quad MDL/MSD

1,1,1,2-Tetrachloroethane only

Standard 3018-1908 (5.0ppbv)
16mL load volume

Spike concentration
0.4ppbv

Report Date : 03-Jun-2021 08:29

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/03MAY21.b/321q0317a.m
Batch File: /chem/msd3.i/03MAY21.b
Inst ID: msd3.i

ID:	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09
FILENAME:	3050309	3050310	3050311	3050409	3050410	3050411	3050509	3050510	3050511
INJ.DATE:	03-MAY-2021	03-MAY-2021	03-MAY-2021	04-MAY-2021	04-MAY-2021	04-MAY-2021	05-MAY-2021	05-MAY-2021	05-MAY-2021
INJ.TIME:	13:57	14:24	14:52	15:10	15:38	16:05	14:25	14:53	15:21

PPTV

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
1 Dimethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
2 1,1-Dichloro-1-Fluoroe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
3 Freon 143a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
4 Freon 134a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
5 Propylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
6 Propane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
7 1,1-Difluoroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
8 Freon 12	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
9 Chlorodifluoromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
10 Freon 114	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
11 Freon 14	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
12 Isobutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
13 Freon 142b	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
14 Acetaldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
15 Chloromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
16 Hexafluoropropene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
17 Freon 13	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Reviewer 1 _____ Date: 6/3/21
Reviewer 2 _____ Date: 6/7/21

$\bar{X}$ = 73.89
$2\bar{X}$ = 147.78
$3\bar{X}$ = 221.67
$4\bar{X}$ = 295.56

MDL verification
standard # 3018-2078 (5ppbv)
10 mL volume File# 3060309
spike concentration
0.25ppbv

The ratio of the mean recovered concentration & the MDL is between 1-20.

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/03MAY21.b/321q0317a.m
Batch File: /chem/msd3.i/03MAY21.b
Inst ID: msd3.i

PPTV RL

MDL Blank

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
135 1-Methoxy-2-propanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
136 Octane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
137 Toluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
138 1-Heptene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
139 trans-1,3-Dichloroprop	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
140 2,3-Dichloro-1-propene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
141 1,1,2-Trichloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
142 Tetrachloroethene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
143 2-Hexanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
144 1,3-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
145 Butyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
146 Dibromochloromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
147 Bromodichloroethene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
148 1,2-Dibromoethane (EDB	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
149 2-Methylheptane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
150 3-Methylheptane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
151 1-Bromo-2-Chloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
152 Diethyl Ketone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
* 153 Chlorobenzene-d5	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	0.00	0.00
154 Chlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
155 Ethyl Benzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
156 Nonane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
157 1,1,1,2-Tetrachloroeth	526.98	516.97	486.41	540.40	522.14	530.23	475.21	539.09	553.76	521.24	25.52	73.89
158 m,p-Xylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

400/500/2000

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/03MAY21.b/321q0317a.m
Batch File: /chem/msd3.i/03MAY21.b
Inst ID: msd3.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
18 Butane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
19 Vinyl Chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
20 1,3-Butadiene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
21 Vinyl Fluoride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
22 Ethylene Oxide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
23 Methanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
24 Bromomethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
25 Isobutylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
26 2-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
27 trans-2-butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
28 1-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
29 cis-2-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
30 Chloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
31 Isopentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
32 Vinyl Bromide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
33 Freon 11	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
34 Dichlorofluoromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
35 Pentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
36 1-Pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
37 3-Methyl-1-butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
38 Ethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
39 Ethanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/03MAY21.b/321q0317a.m
Batch File: /chem/msd3.i/03MAY21.b
Inst ID: msd3.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
40 Freon 123a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
41 Freon 123	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
42 Acrolein	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
43 Freon 113	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
44 1,1-Dichloroethene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
45 2-Chloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
46 2,3-Dimethylbutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
47 Acetone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
48 Carbon Disulfide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
49 Iodomethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
50 Isoprene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
51 2-Methyl-2-butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
52 2-Propanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
53 trans-2-Pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
54 3-Chloropropene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
55 Cyclopentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
56 Methyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
57 Acetonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
58 cis-2-Pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
59 Methylene Chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
60 Cyclopentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
61 1,2-Dichloro-1-fluoroe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
62 tert-Butyl alcohol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
63 Methyl tert-butyl ethe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/03MAY21.b/321q0317a.m
Batch File: /chem/msd3.i/03MAY21.b
Inst ID: msd3.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
64 trans-1,2-Dichloroethe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
65 2,2-Dimethylbutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
66 Acrylonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
67 Hexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
68 1-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
69 Bromoethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
70 4-Methyl-1-pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
71 1,1-Dichloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
72 Isopropyl ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
73 Vinyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
74 Chloroprene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
75 1-Propanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
76 2-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
77 3-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
78 1-Chloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
79 Ethyl-tert-butyl ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
80 2-Methyl-1-pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
81 2,4-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
82 2,3-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
83 tert-Butyl chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
84 2,2-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
85 cis-1,2-Dichloroethene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
86 2-Butanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/03MAY21.b/321q0317a.m
Batch File: /chem/msd3.i/03MAY21.b
Inst ID: msd3.i

	Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
	87 Ethyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	88 Methyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	89 Tetrahydrofuran	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
*	90 Bromochloromethane	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	0.00	0.00
	91 trans-2-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	92 Chloroform	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	93 cis-2-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	94 Cyclohexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	95 Methylcyclopentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	96 1,1,1-Trichloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	97 Carbon Tetrachloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	98 sec-Butyl chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	99 1,1-Dichloropropene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	100 2,3,4-Trimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	101 2,2,4-Trimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	102 Benzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	103 Isobutanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
$	104 1,2-Dichloroethane-d4	24697.90	24426.87	25043.25	25132.82	24889.42	25163.20	24848.38	25046.03	25137.35	24931.69	244.97	709.44
	105 tert-Amyl methyl ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	106 1,2-Dichloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	107 Heptane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
*	108 1,4-Difluorobenzene	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	0.00	0.00
	109 Butanal	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	110 n-Butanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/03MAY21.b/321q0317a.m
Batch File: /chem/msd3.i/03MAY21.b
Inst ID: msd3.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
111 Trichloroethene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
112 Isobutyl chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
113 Ethyl acrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
114 1,2-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
115 2-Pentanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
116 Methyl Methacrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
117 1,4-Dioxane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
118 Dibromomethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
119 Methacrylonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
120 2-Chloropentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
121 2-Butanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
122 Bromodichloromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
123 1-Bromopropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
124 Chloroacetonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
125 n-Butylchloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
126 cis-1,3-Dichloropropen	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
127 Methylcyclohexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
128 Thiophene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
129 2-Methylhexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
130 3-Methylhexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
131 4-Methyl-2-pentanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
132 Cyclohexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
$ 133 Benzene-d6	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
$ 134 Toluene-d8	24676.03	24895.10	24771.68	24765.70	24403.43	24714.67	24398.32	24695.85	24589.38	24656.69	166.82	483.12

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METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/03MAY21.b/321q0317a.m
Batch File: /chem/msd3.i/03MAY21.b
Inst ID: msd3.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
159 2-Nitropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
160 bis(chloromethyl) Ethe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
161 1-Octene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
162 Epichlorohydrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
163 2-Chloroethyl Vinyl Et	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
164 o-Xylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
165 Styrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
166 2-Heptanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
167 Bromoform	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
168 Cumene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
169 Cyclohexanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
$ 170 4-Bromofluorobenzene	26453.98	26346.98	26114.19	26233.78	26044.32	26017.80	26203.48	25748.42	26019.91	26131.43	208.00	602.36
171 Vinyl Cyclohexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
172 D-Limonene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
173 Ethyl Methacrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
174 1-Chloro-2-Bromopropan	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
175 1,1,2,2-Tetrachloroeth	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
176 1-Nitropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
177 Bromobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
178 Propylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
179 1,2,3-Trichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
180 Bromodichloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
181 trans-1,4-Dichloro-2-b	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
182 Decane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/03MAY21.b/321q0317a.m
Batch File: /chem/msd3.i/03MAY21.b
Inst ID: msd3.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
183 4-Ethyltoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
184 2-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
185 1,3,5-Trimethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
186 4-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
187 Diisobutyl Ketone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
188 alpha Methyl Styrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
189 tert-Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
190 1,2,4-Trimethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
191 Pentachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
192 sec-Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
193 bis(2-Chloroethyl) Eth	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
194 p-Cymene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
195 1,3-Dichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
196 1,4-Dichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
197 1,2,3-Trimethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
198 1-Nonene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
199 alpha-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
200 1-Chlorohexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
201 Undecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
202 Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
203 Butyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
204 1,2-Dichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
205 Hexachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/03MAY21.b/321q0317a.m
Batch File: /chem/msd3.i/03MAY21.b
Inst ID: msd3.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
206 1,2-Dibromo-3-chloropr	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
207 Dodecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
208 1,3,5-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
209 1-Decene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
210 alpha-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
211 1,4-Dichloro-2-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
212 3-Ethyltoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
213 1,2,4-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
214 beta-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
215 Hexachlorobutadiene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
216 Naphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
217 Limonene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
218 Benzaldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
219 Indan	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
220 Indene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
221 Isobutylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
222 1,2,3-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
223 2-Ethyltoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
224 1-Undecene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
225 4-Ethyl-1,2-dimethylbe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
226 1,3-Diethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
227 1,4-Diethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
228 1,2,4,5-tetramethylben	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
229 1-Dodecene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/03MAY21.b/321q0317a.m
Batch File: /chem/msd3.i/03MAY21.b
Inst ID: msd3.i

	Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
	230 Nitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	231 Tridecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	232 2-Methylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	233 1,3,5-Triethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M	234 1,2-Dichloroethene (To	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M	235 Chlorobutane (Total)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M	236 Total Xylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M	237 3 and 4-Ethyltoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	238 Total Volatile Hydroca	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	239 TPH reference to Hexan	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	240 TPH reference to Hepta	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	241 TPH reference to Gasol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	242 TPH reference MineralS	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	243 TPH reference to Stodd	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	244 TVOC reference to Hexa	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	245 TVOC reference to Hept	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	246 TVOC reference to Tolu	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	247 TVOC reference to Tolu	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	248 NMOC reference to Hexa	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	249 NMOC reference to Hept	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	250 NMOC reference to Tolu	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	251 C3 - C4 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	252 C4 - C5 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	253 C5 - C6 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/03MAY21.b/321q0317a.m
Batch File: /chem/msd3.i/03MAY21.b
Inst ID: msd3.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
254 C6 - C7 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
255 C7 - C8 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
256 C8 - C9 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
257 C9 - C10 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
258 C10+ Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
259 C5 - C6 Aliphatic ref	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
260 C6-C8 Aliphatic ref He	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
261 C8-C10 Aliphatic ref D	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
262 C10-C12 Aliphatic ref	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
263 C8-C10 Aromatic	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
264 C8-C10 Aromatic ref 1,	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
265 C10-C12 Aromatic	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
266 C10-C12 Aromatic 1,2,	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
267 C10-C12 Aromatic Naph	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

03MAY21: EPALB1112PCE_mdl.rp

MSD3 Blank 1,1,1,2 PCE MDL
can # 35157

Report Date : 04-JUN-2021 10:42 Page 1

US32TAR1

SPIKED METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/05MAY21.b/321q0317a.m
Batch File: /chem/msd3.i/05MAY21.b
Instrument Names: msd3.i
Student T 2.896 for 9 Replicates with 99% Confidence

	Spiked ID(s)	Spiked Vol(s)

ID:	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09
FILENAME:	3050306LB1112PCE	3050307LB1112PCE	3050308LB1112PCE	3050406LB1112PCE	3050407LB1112PCE	3050408LB1112PCE	3050506LB1112PCE	3050507LB1112PCE	3050508LE
INJ.DATE:	03-MAY-2021	03-MAY-2021	03-MAY-2021	04-MAY-2021	04-MAY-2021	04-MAY-2021	05-MAY-2021	05-MAY-2021	05-MAY-2021
INJ.TIME:	11:47	13:00	13:29	13:28	14:13	14:42	12:40	13:28	13:58

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	SPK AMT	RL	RATIO	MDL
* 1 Bromochloromethane	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	0.000000	0.000000	2.00	1.00	0.000000
$ 2 1,2-Dichloroethane-d4	23867.00	23965.00	25269.00	24324.00	25031.00	24883.00	24739.00	25158.00	25187.00	24713.67	534.92	0.000000	2.00	15.95	1549.11
* 3 1,4-Difluorobenzene	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	0.000000	0.000000	2.00	1.00	0.000000
$ 4 Toluene-d8	24542.00	24548.00	25114.00	24548.00	24850.00	24479.00	24603.00	25251.00	25182.00	24790.78	313.26	0.000000	2.00	27.33	907.21
* 5 Chlorobenzene-d5	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	0.000000	0.000000	2.00	1.00	0.000000
6 1,1,1,2-Tetrachloroethane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000
$ 7 4-Bromofluorobenzene	25896.00	25913.00	25873.00	25941.00	26040.00	26188.00	26321.00	25639.00	25907.00	25968.67	196.25	0.000000	2.00	45.69	568.34

Reviewer 1 _____ Date: 6/4/21
Reviewer 2 _____ Date: 6/7/21

eurofins | Air Toxics

Client Sample ID: CCV

Lab ID#: 2107284-28A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3072602**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 7/26/21 10:10 AM**

Compound	%Recovery
1,1,1,2-Tetrachloroethane	105
1,1,1-Trichloroethane	85
1,1,2,2-Tetrachloroethane	104
1,1,2-Trichloroethane	99
1,1-Dichloroethane	92
1,1-Dichloroethene	88
1,1-Difluoroethane	97
1,2,3-Trichloropropane	106
1,2,4-Trichlorobenzene	83
1,2,4-Trimethylbenzene	98
1,2-Dibromo-3-chloropropane	98
1,2-Dibromoethane (EDB)	101
1,2-Dichlorobenzene	102
1,2-Dichloroethane	102
1,2-Dichloropropane	86
1,3,5-Trimethylbenzene	101
1,3-Butadiene	98
1,3-Dichlorobenzene	104
1,4-Dichlorobenzene	101
1,4-Dioxane	94
2,2,4-Trimethylpentane	84
2-Butanone (Methyl Ethyl Ketone)	93
2-Hexanone	95
2-Propanol	92
3-Chloropropene	87
4-Ethyltoluene	104
4-Methyl-2-pentanone	83
Acetone	94
Acrolein	94
Acrylonitrile	79
alpha-Chlorotoluene	93
Benzene	99
Bromodichloromethane	94
Bromoform	113
Bromomethane	98
Carbon Disulfide	98
Carbon Tetrachloride	94
Chlorobenzene	98
Chloroethane	99
Chloroform	93
Chloromethane	114
cis-1,2-Dichloroethene	88

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Client Sample ID: CCV

Lab ID#: 2107284-28A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3072602**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 7/26/21 10:10 AM**

Compound	%Recovery
cis-1,3-Dichloropropene	92
Cumene	107
Cyclohexane	82
Dibromochloromethane	106
Dibromomethane	108
Ethanol	80
Ethyl Acetate	94
Ethyl Benzene	100
Ethyl-tert-butyl ether	89
Freon 11	103
Freon 12	101
Freon 113	97
Freon 114	100
Freon 134a	104
Heptane	89
Hexachlorobutadiene	85
Hexachloroethane	106
Hexane	88
Iodomethane	106
Isopropyl ether	89
m,p-Xylene	98
Methyl tert-butyl ether	87
Methylene Chloride	94
Naphthalene	62
o-Xylene	98
Propylbenzene	107
Propylene	92
Styrene	101
tert-Amyl methyl ether	94
tert-Butyl alcohol	87
Tetrachloroethene	104
Tetrahydrofuran	88
Toluene	95
TPH ref. to Gasoline (MW=100)	100
trans-1,2-Dichloroethene	87
trans-1,3-Dichloropropene	96
Trichloroethene	97
Vinyl Acetate	92
Vinyl Bromide	97
Vinyl Chloride	104

Container Type: NA - Not Applicable

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Client Sample ID: CCV

Lab ID#: 2107284-28A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3072602**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/26/21 10:10 AM**	

Surrogates	%Recovery	Method Limits
Toluene-d8	96	70-130
1,2-Dichloroethane-d4	95	70-130
4-Bromofluorobenzene	108	70-130

US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msd3.i/26JUL21.b/3072602.d
Lab Smp Id: CCV Client Smp ID: CCV
Inj Date : 26-JUL-2021 10:10
Operator : LD Inst ID: msd3.i
Smp Info : 100mL 3018-2071A
Misc Info : 50ppbv (100ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msd3.i/26JUL21.b/321q0622a.m
Meth Date : 26-Jul-2021 15:35 lk8g Quant Type: ISTD
Cal Date : 23-JUN-2021 00:09 Cal File: 3062223.d
Als bottle: 13 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT20_new.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 90 Bromochloromethane					CAS #: 74-97-5		
5.284	5.284 (1.000)	130	263983	25.0000		80.00- 120.00	100.00
5.284	5.284 (1.000)	128	205634			48.46- 108.46	77.90
5.270	5.270 (1.000)	49	382986			120.39- 180.39	145.08
* 108 1,4-Difluorobenzene					CAS #: 540-36-3		
6.166	6.166 (1.000)	114	833448	25.0000		80.00- 120.00	100.00
6.166	6.166 (1.000)	88	121546			0.00- 45.52	14.58
* 153 Chlorobenzene-d5					CAS #: 3114-55-4		
8.612	8.612 (1.000)	117	741338	25.0000		80.00- 120.00	100.00
8.612	8.612 (1.000)	82	391078			25.46- 85.46	52.75
$ 104 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
5.816	5.816 (1.101)	65	344289	25.0000	23.700	80.00- 120.00	100.00
5.816	5.816 (1.101)	67	171323			21.66- 81.66	49.76
$ 134 Toluene-d8					CAS #: 2037-26-5		
7.387	7.387 (1.198)	98	828093	25.0000	24.123	80.00- 120.00	100.00
7.380	7.380 (1.197)	70	92038			0.00- 41.47	11.11

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 134 Toluene-d8 (continued)							
7.387	7.387 (1.198)	100	551657			36.47- 96.47	66.62
$ 170 4-Bromofluorobenzene					CAS #: 460-00-4		
9.601	9.601 (1.115)	174	530026	25.0000	27.030	80.00- 120.00	100.00
9.601	9.601 (1.115)	95	613431			93.06- 153.06	115.74
9.601	9.601 (1.115)	176	489102			62.87- 122.87	92.28
4 Freon 134a					CAS #: 811-97-2		
1.395	1.395 (0.264)	83	325654	50.0000	51.844	80.00- 120.00	100.00
1.395	1.395 (0.264)	69	257601			51.82- 111.82	79.10
1.493	1.493 (0.282)	51	754485			194.91- 254.91	231.68
5 Propylene					CAS #: 115-07-1		
1.423	1.423 (0.269)	41	292680	50.0000	45.900	80.00- 120.00	100.00
1.423	1.423 (0.269)	42	196714			35.61- 95.61	67.21
1.423	1.423 (0.269)	39	220951			42.66- 102.66	75.49
7 1,1-Difluoroethane					CAS #: 75-37-6		
1.451	1.451 (0.275)	65	201389	50.0000	48.452	80.00- 120.00	100.00
1.493	1.493 (0.282)	51	754485			321.86- 381.86	374.64
1.451	1.451 (0.275)	47	160702			45.34- 105.34	79.80
8 Freon 12					CAS #: 75-71-8		
1.465	1.465 (0.277)	85	927201	50.0000	50.420	80.00- 120.00	100.00
1.465	1.465 (0.277)	87	296074			2.63- 62.63	31.93
9 Chlorodifluoromethane					CAS #: 75-45-6		
1.493	1.493 (0.282)	67	101930	50.0000	50.433	80.00- 120.00	100.00
1.493	1.493 (0.282)	51	754485			719.76- 779.76	740.20
10 Freon 114					CAS #: 76-14-2		
1.563	1.563 (0.296)	135	681143	50.0000	49.989	80.00- 120.00	100.00
1.563	1.563 (0.296)	137	220536			2.12- 62.12	32.38
12 Isobutane					CAS #: 75-28-5		
1.577	1.577 (0.298)	43	684155	50.0000	47.738	80.00- 120.00	100.00
1.577	1.577 (0.298)	42	227097			2.44- 62.44	33.19
1.577	1.577 (0.298)	58	23433			0.00- 33.26	3.43
15 Chloromethane					CAS #: 74-87-3		
1.646	1.646 (0.312)	50	437369	50.0000	57.223	80.00- 120.00	100.00
1.646	1.646 (0.312)	52	142587			2.41- 62.41	32.60
18 Butane					CAS #: 106-97-8		
1.702	1.702 (0.322)	58	94248	50.0000	52.214	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
18 Butane (continued)							
1.702	1.702 (0.322)	43	696154			727.41- 787.41	738.64
19 Vinyl Chloride					CAS #: 75-01-4		
1.744	1.744 (0.330)	62	425167	50.0000	51.983	80.00- 120.00	100.00
1.744	1.744 (0.330)	64	128568			1.28- 61.28	30.24
20 1,3-Butadiene					CAS #: 106-99-0		
1.758	1.758 (0.333)	54	367984	50.0000	49.092	80.00- 120.00	100.00
1.758	1.758 (0.333)	39	340772			69.23- 129.23	92.61
24 Bromomethane					CAS #: 74-83-9		
2.094	2.094 (0.396)	94	316300	50.0000	48.898	80.00- 120.00	100.00
2.094	2.094 (0.396)	96	296570			62.78- 122.78	93.76
30 Chloroethane					CAS #: 75-00-3		
2.206	2.206 (0.417)	64	189461	50.0000	49.347	80.00- 120.00	100.00
2.206	2.206 (0.417)	66	56862			1.44- 61.44	30.01
2.206	2.206 (0.417)	49	61324			4.12- 64.12	32.37
31 Isopentane					CAS #: 78-78-4		
2.220	2.220 (0.420)	43	457664	50.0000	46.615	80.00- 120.00	100.00
2.220	2.220 (0.420)	57	321032			38.82- 98.82	70.15
32 Vinyl Bromide					CAS #: 593-60-2		
2.388	2.388 (0.452)	106	341526	50.0000	48.561	80.00- 120.00	100.00
2.388	2.388 (0.452)	108	314323			63.14- 123.14	92.03
33 Freon 11					CAS #: 75-69-4		
2.430	2.430 (0.460)	101	1004729	50.0000	51.638	80.00- 120.00	100.00
2.430	2.430 (0.460)	103	653042			35.12- 95.12	65.00
34 Dichlorofluoromethane					CAS #: 75-43-4		
2.444	2.444 (0.463)	67	798550	50.0000	51.341	80.00- 120.00	100.00
2.444	2.444 (0.463)	69	242209			0.74- 60.74	30.33
35 Pentane					CAS #: 109-66-0		
2.500	2.500 (0.473)	43	721781	50.0000	46.144	80.00- 120.00	100.00
2.500	2.500 (0.473)	57	117592			0.00- 45.97	16.29
2.500	2.500 (0.473)	72	61407			0.00- 38.10	8.51
38 Ethyl Ether					CAS #: 60-29-7		
2.780	2.780 (0.526)	74	152591	50.0000	43.510	80.00- 120.00	100.00
2.780	2.780 (0.526)	59	279865			147.68- 207.68	183.41
2.780	2.780 (0.526)	45	367712			206.40- 266.40	240.98

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
39 Ethanol					CAS #: 64-17-5		
2.766	2.766 (0.523)	46	63307	50.0000	40.220	80.00- 120.00	100.00
2.780	2.780 (0.526)	45	367093			523.01- 583.01	579.86
42 Acrolein					CAS #: 107-02-8		
3.032	3.032 (0.574)	55	123479	50.0000	47.273	80.00- 120.00	100.00
3.032	3.032 (0.574)	56	171012			110.33- 170.33	138.49
43 Freon 113					CAS #: 76-13-1		
3.032	3.032 (0.574)	151	647341	50.0000	48.669	80.00- 120.00	100.00
3.032	3.032 (0.574)	153	414878			33.72- 93.72	64.09
3.032	3.032 (0.574)	101	783667			89.67- 149.67	121.06
44 1,1-Dichloroethene					CAS #: 75-35-4		
3.074	3.074 (0.582)	96	350870	50.0000	43.796	80.00- 120.00	100.00
3.074	3.074 (0.582)	98	225140			33.39- 93.39	64.17
3.074	3.074 (0.582)	61	715023			163.82- 223.82	203.79
47 Acetone					CAS #: 67-64-1		
3.214	3.214 (0.608)	58	207163	50.0000	46.801	80.00- 120.00	100.00
3.214	3.214 (0.608)	43	697475			299.66- 359.66	336.68
48 Carbon Disulfide					CAS #: 75-15-0		
3.298	3.298 (0.624)	76	977808	50.0000	49.056	80.00- 120.00	100.00
49 Iodomethane					CAS #: 74-88-4		
3.270	3.270 (0.619)	142	909705	50.0000	52.779	80.00- 120.00	100.00
3.270	3.270 (0.619)	127	432460			14.58- 74.58	47.54
52 2-Propanol					CAS #: 67-63-0		
3.395	3.395 (0.643)	45	735625	50.0000	46.210	80.00- 120.00	100.00
3.395	3.395 (0.643)	43	152032			0.00- 48.61	20.67
54 3-Chloropropene					CAS #: 107-05-1		
3.535	3.535 (0.669)	76	150130	50.0000	43.748	80.00- 120.00	100.00
3.535	3.535 (0.669)	41	524081			338.06- 398.06	349.08
57 Acetonitrile					CAS #: 75-05-8		
3.633	3.633 (0.688)	41	320311	50.0000	45.954	80.00- 120.00	100.00
3.633	3.633 (0.688)	40	170561			21.81- 81.81	53.25
3.633	3.633 (0.688)	38	39543			0.00- 41.86	12.35
59 Methylene Chloride					CAS #: 75-09-2		
3.717	3.717 (0.703)	49	499455	50.0000	47.147	80.00- 120.00	100.00
3.717	3.717 (0.703)	84	300839			30.77- 90.77	60.23
3.717	3.717 (0.703)	51	151693			1.39- 61.39	30.37

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
62 tert-Butyl alcohol					CAS #: 75-65-0		
3.857	3.857 (0.730)	59	867312	50.0000	43.406	80.00- 120.00	100.00
3.857	3.857 (0.730)	41	204930			0.00- 51.05	23.63
3.857	3.857 (0.730)	57	95268			0.00- 41.68	10.98
63 Methyl tert-butyl ether					CAS #: 1634-04-4		
3.941	3.941 (0.746)	73	936876	50.0000	43.441	80.00- 120.00	100.00
3.941	3.941 (0.746)	57	283146			0.00- 58.86	30.22
3.941	3.941 (0.746)	41	274158			0.00- 57.27	29.26
64 trans-1,2-Dichloroethene					CAS #: 156-60-5		
3.969	3.969 (0.751)	98	233573	50.0000	43.323	80.00- 120.00	100.00
3.969	3.969 (0.751)	61	617550			244.59- 304.59	264.39
3.969	3.969 (0.751)	96	366294			129.84- 189.84	156.82
66 Acrylonitrile					CAS #: 107-13-1		
4.067	4.067 (0.770)	52	255536	50.0000	39.493	80.00- 120.00	100.00
4.067	4.067 (0.770)	53	302273			88.50- 148.50	118.29
67 Hexane					CAS #: 110-54-3		
4.179	4.179 (0.791)	57	644915	50.0000	44.116	80.00- 120.00	100.00
4.179	4.179 (0.791)	43	395054			32.99- 92.99	61.26
4.179	4.179 (0.791)	86	79382			0.00- 42.56	12.31
71 1,1-Dichloroethane					CAS #: 75-34-3		
4.459	4.459 (0.844)	63	692966	50.0000	46.094	80.00- 120.00	100.00
4.459	4.459 (0.844)	65	213902			0.76- 60.76	30.87
72 Isopropyl ether					CAS #: 108-20-3		
4.445	4.445 (0.841)	45	1378715	50.0000	44.690	80.00- 120.00	100.00
4.445	4.445 (0.841)	87	305689			0.00- 51.37	22.17
4.445	4.445 (0.841)	59	159218			0.00- 41.09	11.55
73 Vinyl Acetate					CAS #: 108-05-4		
4.501	4.501 (0.852)	86	85480	50.0000	46.248	80.00- 120.00	100.00
4.501	4.501 (0.852)	43	1181184			1391.63-1451.63	1381.81
79 Ethyl-tert-butyl ether					CAS #: 637-92-3		
4.809	4.809 (0.910)	59	1329772	50.0000	44.648	80.00- 120.00	100.00
4.809	4.809 (0.910)	87	441698			3.22- 63.22	33.22
4.809	4.809 (0.910)	41	262576			0.00- 48.12	19.75
84 2,2-Dichloropropane					CAS #: 594-20-7		
5.005	5.005 (0.947)	77	637168	50.0000	45.495	80.00- 120.00	100.00
5.005	5.005 (0.947)	79	202317			2.00- 62.00	31.75
5.005	5.005 (0.947)	97	151062			0.00- 53.36	23.71

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
85 cis-1,2-Dichloroethene					CAS #: 156-59-2		
5.046	5.046 (0.955)	98	234514	50.0000	43.880	80.00- 120.00	100.00
5.046	5.046 (0.955)	96	366396			127.22- 187.22	156.24
5.046	5.046 (0.955)	61	754590			283.85- 343.85	321.77
86 2-Butanone					CAS #: 78-93-3		
5.060	5.060 (0.958)	72	173953	50.0000	46.599	80.00- 120.00	100.00
5.074	5.074 (0.960)	43	1820666			1055.75-1115.75	1046.64
5.060	5.060 (0.958)	57	70444			10.59- 70.59	40.50
87 Ethyl Acetate					CAS #: 141-78-6		
5.088	5.088 (0.963)	45	143940	50.0000	46.772	80.00- 120.00	100.00
5.046	5.046 (0.955)	61	754590			450.31- 510.31	524.24
5.088	5.088 (0.963)	70	84206			30.42- 90.42	58.50
89 Tetrahydrofuran					CAS #: 109-99-9		
5.270	5.270 (0.997)	42	460675	50.0000	43.763	80.00- 120.00	100.00
5.270	5.270 (0.997)	71	150450			2.92- 62.92	32.66
5.270	5.270 (0.997)	72	159622			3.54- 63.54	34.65
92 Chloroform					CAS #: 67-66-3		
5.340	5.340 (1.011)	83	771716	50.0000	46.626	80.00- 120.00	100.00
5.340	5.340 (1.011)	85	498416			34.71- 94.71	64.59
94 Cyclohexane					CAS #: 110-82-7		
5.438	5.438 (1.029)	84	427529	50.0000	40.867	80.00- 120.00	100.00
5.438	5.438 (1.029)	56	626558			120.40- 180.40	146.55
5.438	5.438 (1.029)	41	355213			54.20- 114.20	83.09
96 1,1,1-Trichloroethane					CAS #: 71-55-6		
5.452	5.452 (1.032)	97	794060	50.0000	42.683	80.00- 120.00	100.00
5.452	5.452 (1.032)	99	508967			33.76- 93.76	64.10
97 Carbon Tetrachloride					CAS #: 56-23-5		
5.578	5.578 (1.056)	119	802191	50.0000	46.818	80.00- 120.00	100.00
5.578	5.578 (1.056)	117	836522			73.68- 133.68	104.28
99 1,1-Dichloropropene					CAS #: 563-58-6		
5.606	5.606 (0.909)	110	190114	50.0000	50.123	80.00- 120.00	100.00
5.606	5.606 (0.909)	75	490171			231.09- 291.09	257.83
101 2,2,4-Trimethylpentane					CAS #: 540-84-1		
5.774	5.774 (1.093)	57	1926587	50.0000	42.143	80.00- 120.00	100.00
5.774	5.774 (1.093)	56	596874			1.12- 61.12	30.98
5.774	5.774 (1.093)	41	548029			0.00- 57.49	28.45

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
102 Benzene					CAS #: 71-43-2		
5.788	5.788 (0.939)	78	943664	50.0000	49.617	80.00- 120.00	100.00
5.788	5.788 (0.939)	77	222338			0.00- 53.80	23.56
105 tert-Amyl methyl ether					CAS #: 994-05-8		
5.858	5.858 (0.950)	87	239078	50.0000	47.144	80.00- 120.00	100.00
5.858	5.858 (0.950)	73	950012			365.20- 425.20	397.36
5.858	5.858 (0.950)	55	312741			91.31- 151.31	130.81
106 1,2-Dichloroethane					CAS #: 107-06-2		
5.886	5.886 (0.955)	62	559629	50.0000	51.108	80.00- 120.00	100.00
5.886	5.886 (0.955)	64	173965			1.20- 61.20	31.09
107 Heptane					CAS #: 142-82-5		
5.942	5.942 (0.964)	71	334681	50.0000	44.676	80.00- 120.00	100.00
5.942	5.942 (0.964)	43	667097			179.02- 239.02	199.32
5.942	5.942 (0.964)	57	386536			84.85- 144.85	115.49
110 n-Butanol					CAS #: 71-36-3		
6.348	6.348 (1.030)	56	289613	50.0000	47.508	80.00- 120.00	100.00
6.348	6.348 (1.030)	41	200110			40.21- 100.21	69.10
6.348	6.348 (1.030)	43	157634			25.00- 85.00	54.43
111 Trichloroethene					CAS #: 79-01-6		
6.362	6.362 (1.032)	95	464059	50.0000	48.636	80.00- 120.00	100.00
6.362	6.362 (1.032)	130	495529			74.96- 134.96	106.78
6.362	6.362 (1.032)	97	298104			34.80- 94.80	64.24
114 1,2-Dichloropropane					CAS #: 78-87-5		
6.586	6.586 (1.068)	63	189974	50.0000	43.092	80.00- 120.00	100.00
6.586	6.586 (1.068)	62	127508			52.03- 112.03	67.12
6.586	6.586 (1.068)	41	171304			79.97- 139.97	90.17
116 Methyl Methacrylate					CAS #: 80-62-6		
6.664	6.664 (0.774)	69	337093	50.0000	47.248	80.00- 120.00	100.00
6.664	6.664 (0.774)	41	528362			134.02- 194.02	156.74
6.664	6.664 (0.774)	100	138275			9.54- 69.54	41.02
117 1,4-Dioxane					CAS #: 123-91-1		
6.700	6.700 (1.087)	88	227234	50.0000	47.165	80.00- 120.00	100.00
6.700	6.700 (1.087)	58	191338			55.80- 115.80	84.20
6.692	6.692 (1.085)	57	93651			8.68- 68.68	41.21
118 Dibromomethane					CAS #: 74-95-3		
6.721	6.721 (0.780)	174	427754	50.0000	53.835	80.00- 120.00	100.00
6.714	6.714 (0.780)	93	417413			67.27- 127.27	97.58

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
118 Dibromomethane (continued)							
6.714	6.714 (0.780)	95	351754			50.92- 110.92	82.23
122 Bromodichloromethane					CAS #: 75-27-4		
6.836	6.836 (1.109)	83	752358	50.0000	47.068	80.00- 120.00	100.00
6.836	6.836 (1.109)	85	479932			34.31- 94.31	63.79
126 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.208	7.208 (1.169)	75	544502	50.0000	45.831	80.00- 120.00	100.00
7.208	7.208 (1.169)	77	173387			1.42- 61.42	31.84
7.208	7.208 (1.169)	39	372618			38.56- 98.56	68.43
127 Methylcyclohexane					CAS #: 108-87-2		
6.460	6.460 (1.048)	83	568878	50.0000	44.586	80.00- 120.00	100.00
6.460	6.460 (1.048)	98	262794			15.60- 75.60	46.20
6.460	6.460 (1.048)	55	603772			78.53- 138.53	106.13
131 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.316	7.316 (1.186)	58	335987	50.0000	41.591	80.00- 120.00	100.00
7.316	7.316 (1.186)	43	864057			231.30- 291.30	257.17
7.316	7.316 (1.186)	85	124951			8.94- 68.94	37.19
137 Toluene					CAS #: 108-88-3		
7.437	7.437 (1.206)	91	1217295	50.0000	47.700	80.00- 120.00	100.00
7.437	7.437 (1.206)	92	697650			28.30- 88.30	57.31
136 Octane					CAS #: 111-65-9		
7.444	7.444 (1.207)	57	384837	50.0000	45.325	80.00- 120.00	100.00
7.444	7.444 (1.207)	85	370108			67.11- 127.11	96.17
7.444	7.444 (1.207)	43	871858			214.21- 274.21	226.55
139 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
7.688	7.688 (0.893)	75	524693	50.0000	48.054	80.00- 120.00	100.00
7.688	7.688 (0.893)	77	166082			2.15- 62.15	31.65
7.688	7.688 (0.893)	39	339375			36.09- 96.09	64.68
141 1,1,2-Trichloroethane					CAS #: 79-00-5		
7.846	7.846 (0.911)	97	415446	50.0000	49.475	80.00- 120.00	100.00
7.846	7.846 (0.911)	99	250055			31.62- 91.62	60.19
7.846	7.846 (0.911)	83	353139			56.35- 116.35	85.00
142 Tetrachloroethene					CAS #: 127-18-4		
7.881	7.881 (0.915)	166	601169	50.0000	51.763	80.00- 120.00	100.00
7.874	7.874 (0.914)	129	458603			48.71- 108.71	76.29
7.874	7.874 (0.914)	131	449557			46.55- 106.55	74.78

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
143 2-Hexanone					CAS #: 591-78-6		
8.003	8.003 (0.929)	58	460022	50.0000	47.694	80.00- 120.00	100.00
8.003	8.003 (0.929)	43	845380			157.91- 217.91	183.77
8.003	8.003 (0.929)	100	84350			0.00- 47.86	18.34
144 1,3-Dichloropropane					CAS #: 142-28-9		
7.989	7.989 (1.296)	76	556489	50.0000	45.705	80.00- 120.00	100.00
7.989	7.989 (1.296)	41	585652			82.96- 142.96	105.24
7.989	7.989 (1.296)	78	182198			2.55- 62.55	32.74
146 Dibromochloromethane					CAS #: 124-48-1		
8.154	8.154 (0.947)	129	840792	50.0000	52.779	80.00- 120.00	100.00
8.154	8.154 (0.947)	127	657265			47.77- 107.77	78.17
148 1,2-Dibromoethane (EDB)					CAS #: 106-93-4		
8.261	8.261 (0.959)	107	661471	50.0000	50.725	80.00- 120.00	100.00
8.261	8.261 (0.959)	109	621977			64.60- 124.60	94.03
151 1-Bromo-2-Chloroethane					CAS #: 107-04-0		
7.115	7.115 (1.154)	63	736752	50.0000	47.762	80.00- 120.00	100.00
7.115	7.115 (1.154)	65	222271			0.95- 60.95	30.17
7.115	7.115 (1.154)	144	83481			0.00- 40.45	11.33
154 Chlorobenzene					CAS #: 108-90-7		
8.641	8.641 (1.003)	112	990472	50.0000	48.884	80.00- 120.00	100.00
8.641	8.641 (1.003)	114	317571			2.13- 62.13	32.06
8.641	8.641 (1.003)	77	517985			26.35- 86.35	52.30
155 Ethyl Benzene					CAS #: 100-41-4		
8.684	8.684 (1.008)	106	504200	50.0000	49.765	80.00- 120.00	100.00
8.684	8.684 (1.008)	91	1569609			282.48- 342.48	311.31
156 Nonane					CAS #: 111-84-2		
8.705	8.705 (1.011)	43	883884	50.0000	45.010	80.00- 120.00	100.00
8.705	8.705 (1.011)	57	821901			59.52- 119.52	92.99
8.705	8.705 (1.011)	85	280860			0.00- 59.76	31.78
158 m,p-Xylene					CAS #: 108-38-3		
8.784	8.784 (1.020)	106	618905	50.0000	49.102	80.00- 120.00	100.00
8.784	8.784 (1.020)	91	1212617			171.36- 231.36	195.93
164 o-Xylene					CAS #: 95-47-6		
9.121	9.121 (1.059)	106	587802	50.0000	49.123	80.00- 120.00	100.00
9.121	9.121 (1.059)	91	1238389			179.99- 239.99	210.68
165 Styrene					CAS #: 100-42-5		
9.149	9.149 (1.062)	104	1044976	50.0000	50.405	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
165 Styrene (continued)							
9.142	9.142 (1.062)	78	491261			19.09- 79.09	47.01
167 Bromoform					CAS #: 75-25-2		
9.350	9.350 (1.086)	173	854118	50.0000	56.543	80.00- 120.00	100.00
9.350	9.350 (1.086)	171	442728			21.45- 81.45	51.83
168 Cumene					CAS #: 98-82-8		
9.407	9.407 (1.092)	105	2016520	50.0000	53.302	80.00- 120.00	100.00
9.407	9.407 (1.092)	120	544619			0.00- 56.99	27.01
9.407	9.407 (1.092)	51	237088			0.00- 41.77	11.76
169 Cyclohexanone					CAS #: 108-94-1		
9.579	9.579 (1.112)	55	578674	50.0000	48.605	80.00- 120.00	100.00
9.579	9.579 (1.112)	98	224367			9.22- 69.22	38.77
9.579	9.579 (1.112)	42	404670			42.60- 102.60	69.93
175 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
9.737	9.737 (1.131)	83	978037	50.0000	52.142	80.00- 120.00	100.00
9.737	9.737 (1.131)	85	629254			34.35- 94.35	64.34
177 Bromobenzene					CAS #: 108-86-1		
9.729	9.729 (1.130)	156	646109	50.0000	54.938	80.00- 120.00	100.00
9.729	9.729 (1.130)	158	631465			67.29- 127.29	97.73
9.729	9.729 (1.130)	77	998488			132.41- 192.41	154.54
178 Propylbenzene					CAS #: 103-65-1		
9.751	9.751 (1.132)	91	2352932	50.0000	53.302	80.00- 120.00	100.00
9.758	9.758 (1.133)	120	560819			0.00- 53.77	23.83
9.751	9.751 (1.132)	105	88546			0.00- 33.81	3.76
179 1,2,3-Trichloropropane					CAS #: 96-18-4		
9.787	9.787 (1.136)	110	300386	50.0000	53.163	80.00- 120.00	100.00
9.787	9.787 (1.136)	75	904000			285.00- 345.00	300.95
9.787	9.787 (1.136)	61	249611			54.06- 114.06	83.10
181 trans-1,4-Dichloro-2-butene					CAS #: 110-57-6		
9.787	9.787 (1.136)	53	226669	50.0000	50.698	80.00- 120.00	100.00
9.787	9.787 (1.136)	89	106210			21.19- 81.19	46.86
9.787	9.787 (1.136)	75	904000			372.45- 432.45	398.82
182 Decane					CAS #: 124-18-5		
9.808	9.808 (1.139)	57	1105255	50.0000	48.423	80.00- 120.00	100.00
9.808	9.808 (1.139)	71	376982			4.13- 64.13	34.11
9.815	9.815 (1.140)	142	55467			0.00- 34.73	5.02

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
183 4-Ethyltoluene					CAS #: 622-96-8		
9.851	9.851 (1.144)	120	593871	50.0000	51.902	80.00- 120.00	100.00
9.851	9.851 (1.144)	105	1941965			296.79- 356.79	327.00
184 2-Chlorotoluene					CAS #: 95-49-8		
9.873	9.873 (1.146)	126	500419	50.0000	53.825	80.00- 120.00	100.00
9.873	9.873 (1.146)	91	1743965			336.29- 396.29	348.50
9.873	9.873 (1.146)	65	324427			38.83- 98.83	64.83
185 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
9.901	9.901 (1.150)	120	814221	50.0000	50.664	80.00- 120.00	100.00
9.901	9.901 (1.150)	105	1648931			176.40- 236.40	202.52
188 alpha Methyl Styrene					CAS #: 98-83-9		
10.102	10.102 (1.173)	118	794343	50.0000	48.260	80.00- 120.00	100.00
10.102	10.102 (1.173)	103	445315			26.64- 86.64	56.06
189 tert-Butylbenzene					CAS #: 98-06-6		
10.174	10.174 (1.181)	119	1494510	50.0000	50.542	80.00- 120.00	100.00
10.174	10.174 (1.181)	134	375001			0.00- 54.82	25.09
10.166	10.166 (1.180)	91	958146			36.92- 96.92	64.11
190 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
10.224	10.224 (1.187)	105	1555569	50.0000	49.087	80.00- 120.00	100.00
10.224	10.224 (1.187)	120	732579			16.58- 76.58	47.09
192 sec-Butylbenzene					CAS #: 135-98-8		
10.353	10.353 (1.202)	134	480062	50.0000	50.263	80.00- 120.00	100.00
10.353	10.353 (1.202)	105	2280906			451.53- 511.53	475.13
10.353	10.353 (1.202)	91	357427			46.48- 106.48	74.45
194 p-Cymene					CAS #: 99-87-6		
10.467	10.467 (1.215)	119	2002984	50.0000	50.078	80.00- 120.00	100.00
10.467	10.467 (1.215)	134	534440			0.00- 56.79	26.68
10.467	10.467 (1.215)	91	466476			0.00- 54.04	23.29
195 1,3-Dichlorobenzene					CAS #: 541-73-1		
10.517	10.517 (1.221)	146	1120056	50.0000	52.022	80.00- 120.00	100.00
10.517	10.517 (1.221)	148	714317			33.53- 93.53	63.78
10.517	10.517 (1.221)	111	440370			11.05- 71.05	39.32
196 1,4-Dichlorobenzene					CAS #: 106-46-7		
10.596	10.596 (1.230)	146	1124662	50.0000	50.713	80.00- 120.00	100.00
10.596	10.596 (1.230)	148	707817			33.47- 93.47	62.94
10.596	10.596 (1.230)	111	428475			9.65- 69.65	38.10

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
199 alpha-Chlorotoluene					CAS #: 100-44-7		
10.711	10.711 (1.244)	91	1418673	50.0000	46.526	80.00- 120.00	100.00
10.711	10.711 (1.244)	126	321068			0.00- 52.04	22.63
201 Undecane					CAS #: 1120-21-4		
10.804	10.804 (1.254)	57	1165238	50.0000	43.322	80.00- 120.00	100.00
10.804	10.804 (1.254)	43	995878			55.86- 115.86	85.47
202 Butylbenzene					CAS #: 104-51-8		
10.818	10.818 (1.256)	134	523916	50.0000	50.519	80.00- 120.00	100.00
10.818	10.818 (1.256)	91	1869084			331.99- 391.99	356.75
10.818	10.818 (1.256)	92	969238			161.01- 221.01	185.00
204 1,2-Dichlorobenzene					CAS #: 95-50-1		
10.919	10.919 (1.268)	146	1059029	50.0000	50.902	80.00- 120.00	100.00
10.926	10.926 (1.269)	148	676040			33.23- 93.23	63.84
10.919	10.919 (1.268)	111	433070			12.36- 72.36	40.89
206 1,2-Dibromo-3-chloropropane					CAS #: 96-12-8		
11.606	11.606 (1.348)	157	594383	50.0000	49.270	80.00- 120.00	100.00
11.599	11.599 (1.347)	75	486043			58.96- 118.96	81.77
11.606	11.606 (1.348)	155	466619			47.82- 107.82	78.50
207 Dodecane					CAS #: 112-40-3		
11.714	11.714 (1.360)	57	886106	61.8000	38.960	80.00- 120.00	100.00
11.714	11.714 (1.360)	43	704633			50.85- 110.85	79.52
213 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
12.301	12.301 (1.428)	180	769237	62.9500	52.054	80.00- 120.00	100.00
12.301	12.301 (1.428)	182	740856			65.40- 125.40	96.31
215 Hexachlorobutadiene					CAS #: 87-68-3		
12.387	12.387 (1.438)	225	611151	64.3500	54.749	80.00- 120.00	100.00
12.387	12.387 (1.438)	223	391020			33.70- 93.70	63.98
216 Naphthalene					CAS #: 91-20-3		
12.559	12.559 (1.458)	128	176940	6.35000	3.921	80.00- 120.00	100.00
12.552	12.552 (1.457)	127	23363			0.00- 43.10	13.20
222 1,2,3-Trichlorobenzene					CAS #: 87-61-6		
12.810	12.810 (1.487)	180	665255	66.5500	49.196	80.00- 120.00	100.00
12.810	12.810 (1.487)	182	628238			65.67- 125.67	94.44
12.810	12.810 (1.487)	145	232877			6.02- 66.02	35.01

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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd3.i Injection Date: 26-JUL-2021 10:10
Lab File ID: 3072602.d Init. Cal. Date(s): 22-JUN-2021 23-JUN-2021
Analysis Type: AIR Init. Cal. Times: 15:51 00:09
Lab Sample ID: CCV Quant Type: ISTD
Method: /chem/msd3.i/26JUL21.b/321q0622a.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 104 1,2-Dichloroethane-d4	1.37578	1.30421	0.010	5.20171	30.00000	Averaged
$ 134 Toluene-d8	1.02971	0.99357	0.010	3.50907	30.00000	Averaged
$ 170 4-Bromofluorobenzene	0.66126	0.71496	0.010	-8.12027	30.00000	Averaged
4 Freon 134a	0.59487	0.61681	0.010	-3.68900	30.00000	Averaged
5 Propylene	0.60387	0.55436	0.010	8.19902	30.00000	Averaged
7 1,1-Difluoroethane	0.39363	0.38144	0.010	3.09674	30.00000	Averaged
8 Freon 12	1.74153	1.75618	0.010	-0.84077	30.00000	Averaged
9 Chlorodifluoromethane	0.19140	0.19306	0.010	-0.86697	30.00000	Averaged
10 Freon 114	1.29040	1.29013	0.010	0.02147	30.00000	Averaged
12 Isobutane	1.35725	1.29583	0.010	4.52488	30.00000	Averaged
15 Chloromethane	0.72383	0.82841	0.010	-14.44675	30.00000	Averaged
18 Butane	0.17094	0.17851	0.010	-4.42907	30.00000	Averaged
19 Vinyl Chloride	0.77458	0.80529	0.010	-3.96563	30.00000	Averaged
20 1,3-Butadiene	0.70987	0.69699	0.010	1.81518	30.00000	Averaged
24 Bromomethane	0.61260	0.59909	0.010	2.20439	30.00000	Averaged
30 Chloroethane	0.36360	0.35885	0.010	1.30582	30.00000	Averaged
31 Isopentane	0.92980	0.86684	0.010	6.77079	30.00000	Averaged
32 Vinyl Bromide	0.66605	0.64687	0.010	2.87878	30.00000	Averaged
33 Freon 11	1.84264	1.90302	0.010	-3.27680	30.00000	Averaged
34 Dichlorofluoromethane	1.47301	1.51250	0.010	-2.68150	30.00000	Averaged
35 Pentane	1.48134	1.36710	0.010	7.71235	30.00000	Averaged
38 Ethyl Ether	0.33213	0.28902	0.010	12.98056	30.00000	Averaged
39 Ethanol	0.14907	0.11991	0.010	19.56033	30.00000	Averaged
42 Acrolein	0.24737	0.23388	0.010	5.45409	30.00000	Averaged
43 Freon 113	1.25964	1.22610	0.010	2.66214	30.00000	Averaged
44 1,1-Dichloroethene	0.75871	0.66457	0.010	12.40799	30.00000	Averaged
47 Acetone	0.41920	0.39238	0.010	6.39701	30.00000	Averaged
48 Carbon Disulfide	1.88768	1.85203	0.010	1.88847	30.00000	Averaged
49 Iodomethane	1.63230	1.72304	0.010	-5.55866	30.00000	Averaged
52 2-Propanol	1.50759	1.39332	0.010	7.57956	30.00000	Averaged
54 3-Chloropropene	0.32499	0.28436	0.010	12.50396	30.00000	Averaged
57 Acetonitrile	0.66010	0.60669	0.010	8.09161	30.00000	Averaged
59 Methylene Chloride	1.00325	0.94600	0.010	5.70634	30.00000	Averaged
62 tert-Butyl alcohol	1.89229	1.64274	0.010	13.18753	30.00000	Averaged
63 Methyl tert-butyl ether	2.04241	1.77450	0.010	13.11741	30.00000	Averaged

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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd3.i Injection Date: 26-JUL-2021 10:10
Lab File ID: 3072602.d Init. Cal. Date(s): 22-JUN-2021 23-JUN-2021
Analysis Type: AIR Init. Cal. Times: 15:51 00:09
Lab Sample ID: CCV Quant Type: ISTD
Method: /chem/msd3.i/26JUL21.b/321q0622a.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	MIN %D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
64 trans-1,2-Dichloroethene	0.51058	0.44240	0.010	13.35317	30.00000	Averaged
66 Acrylonitrile	0.61277	0.48400	0.010	21.01403	30.00000	Averaged
67 Hexane	1.38442	1.22151	0.010	11.76735	30.00000	Averaged
71 1,1-Dichloroethane	1.42374	1.31252	0.010	7.81192	30.00000	Averaged
72 Isopropyl ether	2.92166	2.61137	0.010	10.62035	30.00000	Averaged
73 Vinyl Acetate	0.17504	0.16191	0.010	7.50398	30.00000	Averaged
79 Ethyl-tert-butyl ether	2.82061	2.51867	0.010	10.70487	30.00000	Averaged
84 2,2-Dichloropropane	1.32635	1.20684	0.010	9.01075	30.00000	Averaged
85 cis-1,2-Dichloroethene	0.50614	0.44418	0.010	12.24013	30.00000	Averaged
86 2-Butanone	0.35353	0.32948	0.010	6.80262	30.00000	Averaged
87 Ethyl Acetate	0.29145	0.27263	0.010	6.45556	30.00000	Averaged
89 Tetrahydrofuran	0.99690	0.87255	0.010	12.47439	30.00000	Averaged
92 Chloroform	1.56743	1.46168	0.010	6.74711	30.00000	Averaged
94 Cyclohexane	0.99074	0.80977	0.010	18.26661	30.00000	Averaged
96 1,1,1-Trichloroethane	1.76184	1.50400	0.010	14.63458	30.00000	Averaged
97 Carbon Tetrachloride	1.62268	1.51940	0.010	6.36461	30.00000	Averaged
99 1,1-Dichloropropene	0.11377	0.11405	0.010	-0.24637	30.00000	Averaged
101 2,2,4-Trimethylpentane	4.32938	3.64907	0.010	15.71366	30.00000	Averaged
102 Benzene	0.57049	0.56612	0.010	0.76671	30.00000	Averaged
105 tert-Amyl methyl ether	0.15212	0.14343	0.010	5.71150	30.00000	Averaged
106 1,2-Dichloroethane	0.32845	0.33573	0.010	-2.21694	30.00000	Averaged
107 Heptane	0.22471	0.20078	0.010	10.64704	30.00000	Averaged
110 n-Butanol	0.18286	0.17374	0.010	4.98444	30.00000	Averaged
111 Trichloroethene	0.28620	0.27840	0.010	2.72758	30.00000	Averaged
114 1,2-Dichloropropane	0.13224	0.11397	0.010	13.81649	30.00000	Averaged
116 Methyl Methacrylate	0.24060	0.22735	0.010	5.50442	30.00000	Averaged
117 1,4-Dioxane	0.14452	0.13632	0.010	5.67049	30.00000	Averaged
118 Dibromomethane	0.26795	0.28850	0.010	-7.66961	30.00000	Averaged
122 Bromodichloromethane	0.47947	0.45135	0.010	5.86385	30.00000	Averaged
126 cis-1,3-Dichloropropene	0.35637	0.32666	0.010	8.33760	30.00000	Averaged
127 Methylcyclohexane	0.38272	0.34128	0.010	10.82731	30.00000	Averaged
131 4-Methyl-2-pentanone	0.24232	0.20156	0.010	16.81707	30.00000	Averaged
137 Toluene	0.76548	0.73028	0.010	4.59938	30.00000	Averaged
136 Octane	0.25468	0.23087	0.010	9.34932	30.00000	Averaged
139 trans-1,3-Dichloropropene	0.36821	0.35388	0.010	3.89087	30.00000	Averaged

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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd3.i Injection Date: 26-JUL-2021 10:10
Lab File ID: 3072602.d Init. Cal. Date(s): 22-JUN-2021 23-JUN-2021
Analysis Type: AIR Init. Cal. Times: 15:51 00:09
Lab Sample ID: CCV Quant Type: ISTD
Method: /chem/msd3.i/26JUL21.b/321q0622a.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
141 1,1,2-Trichloroethane	0.28317	0.28020	0.010	1.05047	30.00000	Averaged
142 Tetrachloroethene	0.39165	0.40546	0.010	-3.52575	30.00000	Averaged
143 2-Hexanone	0.32527	0.31026	0.010	4.61219	30.00000	Averaged
144 1,3-Dichloropropane	0.36522	0.33385	0.010	8.59048	30.00000	Averaged
146 Dibromochloromethane	0.53722	0.56708	0.010	-5.55841	30.00000	Averaged
148 1,2-Dibromoethane (EDB)	0.43975	0.44613	0.010	-1.45044	30.00000	Averaged
151 1-Bromo-2-Chloroethane	0.46270	0.44199	0.010	4.47596	30.00000	Averaged
154 Chlorobenzene	0.68328	0.66803	0.010	2.23143	30.00000	Averaged
155 Ethyl Benzene	0.34167	0.34006	0.010	0.46978	30.00000	Averaged
156 Nonane	0.66223	0.59614	0.010	9.98020	30.00000	Averaged
158 m,p-Xylene	0.42506	0.41742	0.010	1.79642	30.00000	Averaged
164 o-Xylene	0.40353	0.39645	0.010	1.75419	30.00000	Averaged
165 Styrene	0.69912	0.70479	0.010	-0.81071	30.00000	Averaged
167 Bromoform	0.50940	0.57606	0.010	-13.08697	30.00000	Averaged
168 Cumene	1.27581	1.36005	0.010	-6.60342	30.00000	Averaged
169 Cyclohexanone	0.40149	0.39029	0.010	2.79007	30.00000	Averaged
175 1,1,2,2-Tetrachloroethane	0.63254	0.65964	0.010	-4.28430	30.00000	Averaged
177 Bromobenzene	0.39660	0.43577	0.010	-9.87571	30.00000	Averaged
178 Propylbenzene	1.48863	1.58695	0.010	-6.60492	30.00000	Averaged
179 1,2,3-Trichloropropane	0.19054	0.20260	0.010	-6.32686	30.00000	Averaged
181 trans-1,4-Dichloro-2-butene	0.15077	0.15288	0.010	-1.39506	30.00000	Averaged
182 Decane	0.76973	0.74545	0.010	3.15433	30.00000	Averaged
183 4-Ethyltoluene	0.38586	0.40054	0.010	-3.80405	30.00000	Averaged
184 2-Chlorotoluene	0.31353	0.33751	0.010	-7.64978	30.00000	Averaged
185 1,3,5-Trimethylbenzene	0.54196	0.54916	0.010	-1.32730	30.00000	Averaged
188 alpha Methyl Styrene	0.55506	0.53575	0.010	3.47890	30.00000	Averaged
189 tert-Butylbenzene	0.99718	1.00798	0.010	-1.08362	30.00000	Averaged
190 1,2,4-Trimethylbenzene	1.06868	1.04916	0.010	1.82660	30.00000	Averaged
192 sec-Butylbenzene	0.32209	0.32378	0.010	-0.52628	30.00000	Averaged
194 p-Cymene	1.34882	1.35092	0.010	-0.15559	30.00000	Averaged
195 1,3-Dichlorobenzene	0.72606	0.75543	0.010	-4.04499	30.00000	Averaged
196 1,4-Dichlorobenzene	0.74787	0.75853	0.010	-1.42611	30.00000	Averaged
199 alpha-Chlorotoluene	1.02827	0.95683	0.010	6.94702	30.00000	Averaged
201 Undecane	0.90704	0.78590	0.010	13.35528	30.00000	Averaged
202 Butylbenzene	0.34973	0.35336	0.010	-1.03757	30.00000	Averaged

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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd3.i Injection Date: 26-JUL-2021 10:10
Lab File ID: 3072602.d Init. Cal. Date(s): 22-JUN-2021 23-JUN-2021
Analysis Type: AIR Init. Cal. Times: 15:51 00:09
Lab Sample ID: CCV Quant Type: ISTD
Method: /chem/msd3.i/26JUL21.b/321q0622a.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
204 1,2-Dichlorobenzene	0.70162	0.71427	0.010	-1.80315	30.00000	Averaged	
206 1,2-Dibromo-3-chloropropane	0.40682	0.40089	0.010	1.45988	30.00000	Averaged	
207 Dodecane	0.76699	0.48353	0.010	36.95771	30.00000	Averaged	<-
213 1,2,4-Trichlorobenzene	0.49834	0.41209	0.010	17.30838	30.00000	Averaged	
215 Hexachlorobutadiene	0.37644	0.32028	0.010	14.91957	30.00000	Averaged	
216 Naphthalene	1.52174	0.93967	0.010	38.25021	30.00000	Averaged	<-
222 1,2,3-Trichlorobenzene	0.45602	0.33710	0.010	26.07666	30.00000	Averaged	

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd3.i
Lab File ID: 3072602.d
Lab Smp Id: CCV
Analysis Type: VOA
Quant Type: ISTD
Operator: LD
Method File: /chem/msd3.i/26JUL21.b/321q0622a.m
Misc Info: 50ppbv (100ppbv)

Calibration Date: 26-JUL-2021
Calibration Time: 11:42
Client Smp ID: CCV
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	268159	160895	375423	263983	-1.56
108 1,4-Difluorobenze	904098	542459	1265737	833448	-7.81
153 Chlorobenzene-d5	786166	471700	1100632	741338	-5.70

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.28	4.95	5.61	5.28	-0.00
108 1,4-Difluorobenze	6.18	5.85	6.51	6.17	-0.23
153 Chlorobenzene-d5	8.61	8.28	8.94	8.61	-0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msd3.i/26JUL21.b/3072602.d

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Date : 26-JUL-2021 10:10

Client ID: CCV

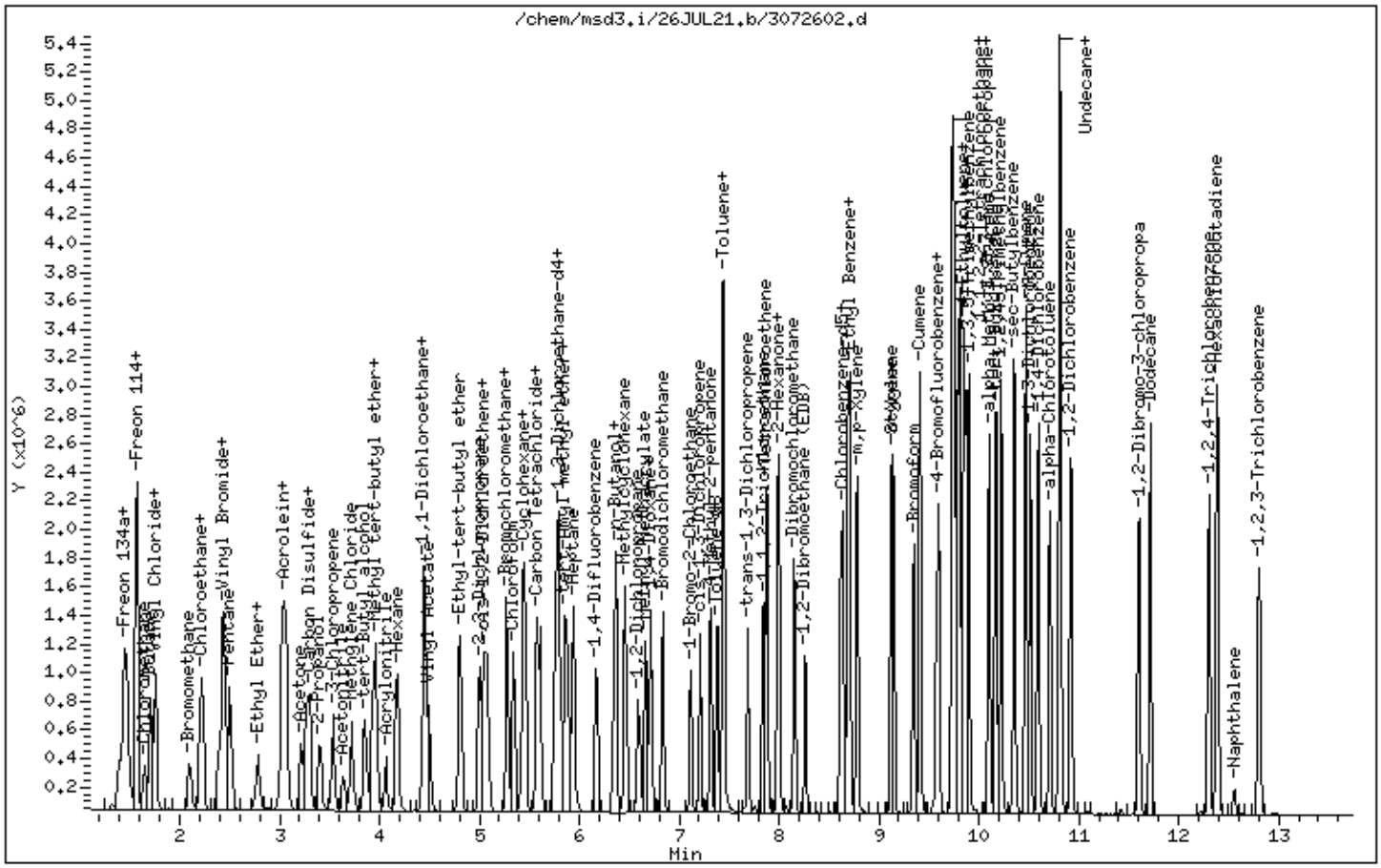
Instrument: msd3.i

Sample Info: 100mL 3018-2071A

Operator: LD

Column phase: RTX-624

Column diameter: 0.25



eurofins | Air Toxics

Client Sample ID: CCV

Lab ID#: 2107284-28B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3072703**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 7/27/21 11:36 AM**

Compound	%Recovery
1,1,1,2-Tetrachloroethane	104
1,1,1-Trichloroethane	89
1,1,2,2-Tetrachloroethane	106
1,1,2-Trichloroethane	98
1,1-Dichloroethane	96
1,1-Dichloroethene	91
1,1-Difluoroethane	101
1,2,3-Trichloropropane	109
1,2,4-Trichlorobenzene	85
1,2,4-Trimethylbenzene	102
1,2-Dibromo-3-chloropropane	100
1,2-Dibromoethane (EDB)	101
1,2-Dichlorobenzene	102
1,2-Dichloroethane	101
1,2-Dichloropropane	74
1,3,5-Trimethylbenzene	106
1,3-Butadiene	92
1,3-Dichlorobenzene	105
1,4-Dichlorobenzene	102
1,4-Dioxane	94
2,2,4-Trimethylpentane	85
2-Butanone (Methyl Ethyl Ketone)	96
2-Hexanone	95
2-Propanol	94
3-Chloropropene	89
4-Ethyltoluene	108
4-Methyl-2-pentanone	82
Acetone	96
Acrolein	94
Acrylonitrile	81
alpha-Chlorotoluene	92
Benzene	98
Bromodichloromethane	91
Bromoform	109
Bromomethane	100
Carbon Disulfide	100
Carbon Tetrachloride	98
Chlorobenzene	98
Chloroethane	97
Chloroform	93
Chloromethane	118
cis-1,2-Dichloroethene	92

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Client Sample ID: CCV

Lab ID#: 2107284-28B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3072703**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 7/27/21 11:36 AM**

Compound	%Recovery
cis-1,3-Dichloropropene	90
Cumene	101
Cyclohexane	86
Dibromochloromethane	105
Dibromomethane	108
Ethanol	83
Ethyl Acetate	96
Ethyl Benzene	98
Ethyl-tert-butyl ether	90
Freon 11	105
Freon 12	100
Freon 113	99
Freon 114	103
Freon 134a	104
Heptane	86
Hexachlorobutadiene	86
Hexachloroethane	112
Hexane	89
Iodomethane	107
Isopropyl ether	92
m,p-Xylene	101
Methyl tert-butyl ether	89
Methylene Chloride	96
Naphthalene	63
o-Xylene	99
Propylbenzene	109
Propylene	95
Styrene	102
tert-Amyl methyl ether	93
tert-Butyl alcohol	88
Tetrachloroethene	104
Tetrahydrofuran	87
Toluene	93
TPH ref. to Gasoline (MW=100)	100
trans-1,2-Dichloroethene	87
trans-1,3-Dichloropropene	96
Trichloroethene	96
Vinyl Acetate	92
Vinyl Bromide	97
Vinyl Chloride	105

Container Type: NA - Not Applicable

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Client Sample ID: CCV

Lab ID#: 2107284-28B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3072703**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/27/21 11:36 AM**	

Surrogates	%Recovery	Method Limits
Toluene-d8	96	70-130
1,2-Dichloroethane-d4	97	70-130
4-Bromofluorobenzene	108	70-130

US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msd3.i/27JUL21.b/3072703.d
Lab Smp Id: CCV Client Smp ID: CCV
Inj Date : 27-JUL-2021 11:36
Operator : LD Inst ID: msd3.i
Smp Info : 100mL 3018-2071A
Misc Info : 50ppbv (100ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msd3.i/27JUL21.b/321q0622a.m
Meth Date : 27-Jul-2021 15:31 lk8g Quant Type: ISTD
Cal Date : 23-JUN-2021 00:09 Cal File: 3062223.d
Als bottle: 13 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT20_new.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 90 Bromochloromethane					CAS #: 74-97-5		
5.284	5.284 (1.000)	130	238986	25.0000		80.00- 120.00	100.00
5.284	5.284 (1.000)	128	187500			48.46- 108.46	78.46
5.270	5.270 (1.000)	49	338226			120.39- 180.39	141.53
* 108 1,4-Difluorobenzene					CAS #: 540-36-3		
6.180	6.180 (1.000)	114	785289	25.0000		80.00- 120.00	100.00
6.180	6.180 (1.000)	88	114138			0.00- 45.52	14.53
* 153 Chlorobenzene-d5					CAS #: 3114-55-4		
8.612	8.612 (1.000)	117	683596	25.0000		80.00- 120.00	100.00
8.612	8.612 (1.000)	82	366865			25.46- 85.46	53.67
$ 104 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
5.816	5.816 (1.101)	65	318581	25.0000	24.224	80.00- 120.00	100.00
5.816	5.816 (1.101)	67	162161			21.66- 81.66	50.90
$ 134 Toluene-d8					CAS #: 2037-26-5		
7.387	7.387 (1.195)	98	774218	25.0000	23.936	80.00- 120.00	100.00
7.387	7.387 (1.195)	70	82736			0.00- 41.47	10.69

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
$ 134 Toluene-d8 (continued)							
7.387	7.387 (1.195)	100	511317			36.47- 96.47	66.04
$ 170 4-Bromofluorobenzene					CAS #: 460-00-4		
9.601	9.601 (1.115)	174	490326	25.0000	27.118	80.00- 120.00	100.00
9.601	9.601 (1.115)	95	562729			93.06- 153.06	114.77
9.601	9.601 (1.115)	176	454164			62.87- 122.87	92.62
4 Freon 134a					CAS #: 811-97-2		
1.395	1.395 (0.264)	83	297232	50.0000	52.269	80.00- 120.00	100.00
1.395	1.395 (0.264)	69	236527			51.82- 111.82	79.58
1.479	1.479 (0.280)	51	727436			194.91- 254.91	244.74
5 Propylene					CAS #: 115-07-1		
1.423	1.423 (0.269)	41	275154	50.0000	47.665	80.00- 120.00	100.00
1.423	1.423 (0.269)	42	183011			35.61- 95.61	66.51
1.423	1.423 (0.269)	39	207006			42.66- 102.66	75.23
7 1,1-Difluoroethane					CAS #: 75-37-6		
1.437	1.437 (0.272)	65	189731	50.0000	50.421	80.00- 120.00	100.00
1.479	1.479 (0.280)	51	727436			321.86- 381.86	383.40
1.451	1.451 (0.275)	47	145666			45.34- 105.34	76.78
8 Freon 12					CAS #: 75-71-8		
1.465	1.465 (0.277)	85	834632	50.0000	50.134	80.00- 120.00	100.00
1.465	1.465 (0.277)	87	271246			2.63- 62.63	32.50
9 Chlorodifluoromethane					CAS #: 75-45-6		
1.493	1.493 (0.282)	67	94331	50.0000	51.556	80.00- 120.00	100.00
1.479	1.479 (0.280)	51	727436			719.76- 779.76	771.15
10 Freon 114					CAS #: 76-14-2		
1.563	1.563 (0.296)	135	634091	50.0000	51.403	80.00- 120.00	100.00
1.563	1.563 (0.296)	137	204445			2.12- 62.12	32.24
12 Isobutane					CAS #: 75-28-5		
1.577	1.577 (0.298)	43	629387	50.0000	48.509	80.00- 120.00	100.00
1.577	1.577 (0.298)	42	207244			2.44- 62.44	32.93
1.577	1.577 (0.298)	58	21931			0.00- 33.26	3.48
15 Chloromethane					CAS #: 74-87-3		
1.646	1.646 (0.312)	50	408963	50.0000	59.103	80.00- 120.00	100.00
1.646	1.646 (0.312)	52	132499			2.41- 62.41	32.40
18 Butane					CAS #: 106-97-8		
1.702	1.702 (0.322)	58	85670	50.0000	52.427	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
18 Butane (continued)							
1.702	1.702 (0.322)	43	652469			727.41- 787.41	761.60
19 Vinyl Chloride					CAS #: 75-01-4		
1.744	1.744 (0.330)	62	387463	50.0000	52.328	80.00- 120.00	100.00
1.744	1.744 (0.330)	64	116032			1.28- 61.28	29.95
20 1,3-Butadiene					CAS #: 106-99-0		
1.758	1.758 (0.333)	54	313233	50.0000	46.159	80.00- 120.00	100.00
1.758	1.758 (0.333)	39	304174			69.23- 129.23	97.11
24 Bromomethane					CAS #: 74-83-9		
2.094	2.094 (0.396)	94	293237	50.0000	50.074	80.00- 120.00	100.00
2.094	2.094 (0.396)	96	274864			62.78- 122.78	93.73
30 Chloroethane					CAS #: 75-00-3		
2.206	2.206 (0.417)	64	169108	50.0000	48.653	80.00- 120.00	100.00
2.206	2.206 (0.417)	66	50039			1.44- 61.44	29.59
2.206	2.206 (0.417)	49	57560			4.12- 64.12	34.04
31 Isopentane					CAS #: 78-78-4		
2.220	2.220 (0.420)	43	412969	50.0000	46.462	80.00- 120.00	100.00
2.220	2.220 (0.420)	57	295006			38.82- 98.82	71.44
32 Vinyl Bromide					CAS #: 593-60-2		
2.388	2.388 (0.452)	106	308689	50.0000	48.482	80.00- 120.00	100.00
2.388	2.388 (0.452)	108	295127			63.14- 123.14	95.61
33 Freon 11					CAS #: 75-69-4		
2.430	2.430 (0.460)	101	927720	50.0000	52.668	80.00- 120.00	100.00
2.430	2.430 (0.460)	103	601548			35.12- 95.12	64.84
34 Dichlorofluoromethane					CAS #: 75-43-4		
2.444	2.444 (0.463)	67	737811	50.0000	52.397	80.00- 120.00	100.00
2.444	2.444 (0.463)	69	224965			0.74- 60.74	30.49
35 Pentane					CAS #: 109-66-0		
2.500	2.500 (0.473)	43	668749	50.0000	47.225	80.00- 120.00	100.00
2.500	2.500 (0.473)	57	109674			0.00- 45.97	16.40
2.500	2.500 (0.473)	72	55876			0.00- 38.10	8.36
38 Ethyl Ether					CAS #: 60-29-7		
2.780	2.780 (0.526)	74	144920	50.0000	45.645	80.00- 120.00	100.00
2.780	2.780 (0.526)	59	254129			147.68- 207.68	175.36
2.780	2.780 (0.526)	45	336274			206.40- 266.40	232.04

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
39 Ethanol					CAS #: 64-17-5		
2.766	2.766 (0.523)	46	59181	50.0000	41.531	80.00- 120.00	100.00
2.780	2.780 (0.526)	45	335667			523.01- 583.01	567.18
42 Acrolein					CAS #: 107-02-8		
3.032	3.032 (0.574)	55	111458	50.0000	47.134	80.00- 120.00	100.00
3.032	3.032 (0.574)	56	161637			110.33- 170.33	145.02
43 Freon 113					CAS #: 76-13-1		
3.032	3.032 (0.574)	151	597400	50.0000	49.612	80.00- 120.00	100.00
3.046	3.046 (0.576)	153	383583			33.72- 93.72	64.21
3.032	3.032 (0.574)	101	725031			89.67- 149.67	121.36
44 1,1-Dichloroethene					CAS #: 75-35-4		
3.074	3.074 (0.582)	96	330534	50.0000	45.573	80.00- 120.00	100.00
3.074	3.074 (0.582)	98	206586			33.39- 93.39	62.50
3.074	3.074 (0.582)	61	655237			163.82- 223.82	198.24
47 Acetone					CAS #: 67-64-1		
3.214	3.214 (0.608)	58	192956	50.0000	48.151	80.00- 120.00	100.00
3.214	3.214 (0.608)	43	645474			299.66- 359.66	334.52
48 Carbon Disulfide					CAS #: 75-15-0		
3.298	3.298 (0.624)	76	906165	50.0000	50.216	80.00- 120.00	100.00
49 Iodomethane					CAS #: 74-88-4		
3.270	3.270 (0.619)	142	831755	50.0000	53.304	80.00- 120.00	100.00
3.270	3.270 (0.619)	127	385841			14.58- 74.58	46.39
52 2-Propanol					CAS #: 67-63-0		
3.409	3.409 (0.645)	45	674523	50.0000	46.804	80.00- 120.00	100.00
3.395	3.395 (0.643)	43	140813			0.00- 48.61	20.88
54 3-Chloropropene					CAS #: 107-05-1		
3.535	3.535 (0.669)	76	138248	50.0000	44.499	80.00- 120.00	100.00
3.535	3.535 (0.669)	41	483332			338.06- 398.06	349.61
57 Acetonitrile					CAS #: 75-05-8		
3.633	3.633 (0.688)	41	304244	50.0000	48.214	80.00- 120.00	100.00
3.633	3.633 (0.688)	40	153674			21.81- 81.81	50.51
3.633	3.633 (0.688)	38	35542			0.00- 41.86	11.68
59 Methylene Chloride					CAS #: 75-09-2		
3.717	3.717 (0.703)	49	462560	50.0000	48.231	80.00- 120.00	100.00
3.717	3.717 (0.703)	84	278242			30.77- 90.77	60.15
3.717	3.717 (0.703)	51	142007			1.39- 61.39	30.70

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
62 tert-Butyl alcohol					CAS #: 75-65-0		
3.857	3.857 (0.730)	59	798528	50.0000	44.144	80.00- 120.00	100.00
3.857	3.857 (0.730)	41	190448			0.00- 51.05	23.85
3.857	3.857 (0.730)	57	85814			0.00- 41.68	10.75
63 Methyl tert-butyl ether					CAS #: 1634-04-4		
3.941	3.941 (0.746)	73	873227	50.0000	44.725	80.00- 120.00	100.00
3.941	3.941 (0.746)	57	262612			0.00- 58.86	30.07
3.941	3.941 (0.746)	41	254934			0.00- 57.27	29.19
64 trans-1,2-Dichloroethene					CAS #: 156-60-5		
3.969	3.969 (0.751)	98	211590	50.0000	43.351	80.00- 120.00	100.00
3.969	3.969 (0.751)	61	569856			244.59- 304.59	269.32
3.969	3.969 (0.751)	96	332803			129.84- 189.84	157.29
66 Acrylonitrile					CAS #: 107-13-1		
4.067	4.067 (0.770)	52	238041	50.0000	40.637	80.00- 120.00	100.00
4.067	4.067 (0.770)	53	273286			88.50- 148.50	114.81
67 Hexane					CAS #: 110-54-3		
4.179	4.179 (0.791)	57	591878	50.0000	44.723	80.00- 120.00	100.00
4.179	4.179 (0.791)	43	364332			32.99- 92.99	61.56
4.179	4.179 (0.791)	86	73183			0.00- 42.56	12.36
71 1,1-Dichloroethane					CAS #: 75-34-3		
4.459	4.459 (0.844)	63	657093	50.0000	48.279	80.00- 120.00	100.00
4.459	4.459 (0.844)	65	196947			0.76- 60.76	29.97
72 Isopropyl ether					CAS #: 108-20-3		
4.445	4.445 (0.841)	45	1278897	50.0000	45.790	80.00- 120.00	100.00
4.445	4.445 (0.841)	87	280799			0.00- 51.37	21.96
4.445	4.445 (0.841)	59	149703			0.00- 41.09	11.71
73 Vinyl Acetate					CAS #: 108-05-4		
4.501	4.501 (0.852)	86	76999	50.0000	46.017	80.00- 120.00	100.00
4.501	4.501 (0.852)	43	1100470			1391.63-1451.63	1429.19
79 Ethyl-tert-butyl ether					CAS #: 637-92-3		
4.809	4.809 (0.910)	59	1207137	50.0000	44.769	80.00- 120.00	100.00
4.809	4.809 (0.910)	87	401818			3.22- 63.22	33.29
4.809	4.809 (0.910)	41	241786			0.00- 48.12	20.03
84 2,2-Dichloropropane					CAS #: 594-20-7		
5.005	5.005 (0.947)	77	604837	50.0000	47.703	80.00- 120.00	100.00
5.005	5.005 (0.947)	79	197596			2.00- 62.00	32.67
5.005	5.005 (0.947)	97	140567			0.00- 53.36	23.24

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
85 cis-1,2-Dichloroethene					CAS #: 156-59-2		
5.046	5.046 (0.955)	98	222984	50.0000	46.086	80.00- 120.00	100.00
5.046	5.046 (0.955)	96	343187			127.22- 187.22	153.91
5.046	5.046 (0.955)	61	723962			283.85- 343.85	324.67
86 2-Butanone					CAS #: 78-93-3		
5.074	5.074 (0.960)	72	161700	50.0000	47.847	80.00- 120.00	100.00
5.074	5.074 (0.960)	43	1729666			1055.75-1115.75	1069.67
5.074	5.074 (0.960)	57	67340			10.59- 70.59	41.64
87 Ethyl Acetate					CAS #: 141-78-6		
5.088	5.088 (0.963)	45	134561	50.0000	48.298	80.00- 120.00	100.00
5.046	5.046 (0.955)	61	723962			450.31- 510.31	538.02
5.088	5.088 (0.963)	70	80201			30.42- 90.42	59.60
89 Tetrahydrofuran					CAS #: 109-99-9		
5.270	5.270 (0.997)	42	415892	50.0000	43.641	80.00- 120.00	100.00
5.270	5.270 (0.997)	71	138664			2.92- 62.92	33.34
5.270	5.270 (0.997)	72	143107			3.54- 63.54	34.41
92 Chloroform					CAS #: 67-66-3		
5.340	5.340 (1.011)	83	700237	50.0000	46.733	80.00- 120.00	100.00
5.340	5.340 (1.011)	85	455445			34.71- 94.71	65.04
94 Cyclohexane					CAS #: 110-82-7		
5.438	5.438 (1.029)	84	405831	50.0000	42.850	80.00- 120.00	100.00
5.438	5.438 (1.029)	56	610004			120.40- 180.40	150.31
5.438	5.438 (1.029)	41	340033			54.20- 114.20	83.79
96 1,1,1-Trichloroethane					CAS #: 71-55-6		
5.466	5.466 (1.034)	97	753632	50.0000	44.747	80.00- 120.00	100.00
5.466	5.466 (1.034)	99	476946			33.76- 93.76	63.29
97 Carbon Tetrachloride					CAS #: 56-23-5		
5.578	5.578 (1.056)	119	761651	50.0000	49.101	80.00- 120.00	100.00
5.578	5.578 (1.056)	117	785502			73.68- 133.68	103.13
99 1,1-Dichloropropene					CAS #: 563-58-6		
5.606	5.606 (0.907)	110	177408	50.0000	49.642	80.00- 120.00	100.00
5.606	5.606 (0.907)	75	462822			231.09- 291.09	260.88
101 2,2,4-Trimethylpentane					CAS #: 540-84-1		
5.774	5.774 (1.093)	57	1768312	50.0000	42.727	80.00- 120.00	100.00
5.774	5.774 (1.093)	56	578102			1.12- 61.12	32.69
5.774	5.774 (1.093)	41	488487			0.00- 57.49	27.62

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
102 Benzene					CAS #: 71-43-2		
5.788	5.788 (0.937)	78	881998	50.0000	49.218	80.00- 120.00	100.00
5.788	5.788 (0.937)	77	213588			0.00- 53.80	24.22
105 tert-Amyl methyl ether					CAS #: 994-05-8		
5.858	5.858 (0.948)	87	222888	50.0000	46.647	80.00- 120.00	100.00
5.858	5.858 (0.948)	73	876961			365.20- 425.20	393.45
5.858	5.858 (0.948)	55	303311			91.31- 151.31	136.08
106 1,2-Dichloroethane					CAS #: 107-06-2		
5.886	5.886 (0.952)	62	519966	50.0000	50.398	80.00- 120.00	100.00
5.886	5.886 (0.952)	64	163436			1.20- 61.20	31.43
107 Heptane					CAS #: 142-82-5		
5.942	5.942 (0.962)	71	304904	50.0000	43.198	80.00- 120.00	100.00
5.942	5.942 (0.962)	43	614601			179.02- 239.02	201.57
5.942	5.942 (0.962)	57	373088			84.85- 144.85	122.36
110 n-Butanol					CAS #: 71-36-3		
6.348	6.348 (1.027)	56	269453	50.0000	46.911	80.00- 120.00	100.00
6.348	6.348 (1.027)	41	180146			40.21- 100.21	66.86
6.348	6.348 (1.027)	43	142726			25.00- 85.00	52.97
111 Trichloroethene					CAS #: 79-01-6		
6.362	6.362 (1.029)	95	429619	50.0000	47.788	80.00- 120.00	100.00
6.362	6.362 (1.029)	130	457013			74.96- 134.96	106.38
6.362	6.362 (1.029)	97	273648			34.80- 94.80	63.70
114 1,2-Dichloropropane					CAS #: 78-87-5		
6.586	6.586 (1.066)	63	153945	50.0000	37.061	80.00- 120.00	100.00
6.586	6.586 (1.066)	62	135945			52.03- 112.03	88.31
6.586	6.586 (1.066)	41	154131			79.97- 139.97	100.12
116 Methyl Methacrylate					CAS #: 80-62-6		
6.664	6.664 (0.774)	69	313820	50.0000	47.701	80.00- 120.00	100.00
6.664	6.664 (0.774)	41	481505			134.02- 194.02	153.43
6.664	6.664 (0.774)	100	122752			9.54- 69.54	39.12
117 1,4-Dioxane					CAS #: 123-91-1		
6.700	6.700 (1.084)	88	213388	50.0000	47.007	80.00- 120.00	100.00
6.700	6.700 (1.084)	58	176834			55.80- 115.80	82.87
6.700	6.700 (1.084)	57	65421			8.68- 68.68	30.66
118 Dibromomethane					CAS #: 74-95-3		
6.721	6.721 (0.780)	174	396878	50.0000	54.168	80.00- 120.00	100.00
6.714	6.714 (0.780)	93	385416			67.27- 127.27	97.11

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
118 Dibromomethane (continued)							
6.721	6.721 (0.780)	95	318875			50.92- 110.92	80.35
122 Bromodichloromethane					CAS #: 75-27-4		
6.836	6.836 (1.106)	83	687162	50.0000	45.626	80.00- 120.00	100.00
6.836	6.836 (1.106)	85	444173			34.31- 94.31	64.64
126 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.208	7.208 (1.166)	75	505501	50.0000	45.158	80.00- 120.00	100.00
7.208	7.208 (1.166)	77	160396			1.42- 61.42	31.73
7.208	7.208 (1.166)	39	340190			38.56- 98.56	67.30
127 Methylcyclohexane					CAS #: 108-87-2		
6.460	6.460 (1.045)	83	522573	50.0000	43.469	80.00- 120.00	100.00
6.460	6.460 (1.045)	98	242516			15.60- 75.60	46.41
6.460	6.460 (1.045)	55	555370			78.53- 138.53	106.28
131 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.316	7.316 (1.184)	58	311803	50.0000	40.965	80.00- 120.00	100.00
7.316	7.316 (1.184)	43	798684			231.30- 291.30	256.15
7.316	7.316 (1.184)	85	118302			8.94- 68.94	37.94
137 Toluene					CAS #: 108-88-3		
7.437	7.437 (1.203)	91	1116802	50.0000	46.446	80.00- 120.00	100.00
7.437	7.437 (1.203)	92	638244			28.30- 88.30	57.15
136 Octane					CAS #: 111-65-9		
7.444	7.444 (1.205)	57	345691	50.0000	43.212	80.00- 120.00	100.00
7.444	7.444 (1.205)	85	338333			67.11- 127.11	97.87
7.444	7.444 (1.205)	43	782458			214.21- 274.21	226.35
139 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
7.688	7.688 (0.893)	75	484199	50.0000	48.092	80.00- 120.00	100.00
7.688	7.688 (0.893)	77	153043			2.15- 62.15	31.61
7.688	7.688 (0.893)	39	312182			36.09- 96.09	64.47
141 1,1,2-Trichloroethane					CAS #: 79-00-5		
7.846	7.846 (0.911)	97	377713	50.0000	48.781	80.00- 120.00	100.00
7.846	7.846 (0.911)	99	236082			31.62- 91.62	62.50
7.846	7.846 (0.911)	83	330363			56.35- 116.35	87.46
142 Tetrachloroethene					CAS #: 127-18-4		
7.881	7.881 (0.915)	166	556140	50.0000	51.930	80.00- 120.00	100.00
7.881	7.881 (0.915)	129	429650			48.71- 108.71	77.26
7.874	7.874 (0.914)	131	412771			46.55- 106.55	74.22

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
143 2-Hexanone					CAS #: 591-78-6		
8.003	8.003 (0.929)	58	424130	50.0000	47.687	80.00- 120.00	100.00
8.003	8.003 (0.929)	43	775872			157.91- 217.91	182.93
8.003	8.003 (0.929)	100	77149			0.00- 47.86	18.19
144 1,3-Dichloropropane					CAS #: 142-28-9		
7.989	7.989 (1.293)	76	512805	50.0000	44.700	80.00- 120.00	100.00
7.989	7.989 (1.293)	41	544359			82.96- 142.96	106.15
7.989	7.989 (1.293)	78	167277			2.55- 62.55	32.62
146 Dibromochloromethane					CAS #: 124-48-1		
8.154	8.154 (0.947)	129	774405	50.0000	52.718	80.00- 120.00	100.00
8.154	8.154 (0.947)	127	603279			47.77- 107.77	77.90
148 1,2-Dibromoethane (EDB)					CAS #: 106-93-4		
8.261	8.261 (0.959)	107	607847	50.0000	50.550	80.00- 120.00	100.00
8.261	8.261 (0.959)	109	571076			64.60- 124.60	93.95
151 1-Bromo-2-Chloroethane					CAS #: 107-04-0		
7.115	7.115 (1.151)	63	679997	50.0000	46.786	80.00- 120.00	100.00
7.115	7.115 (1.151)	65	209990			0.95- 60.95	30.88
7.122	7.122 (1.152)	144	74752			0.00- 40.45	10.99
154 Chlorobenzene					CAS #: 108-90-7		
8.641	8.641 (1.003)	112	913652	50.0000	48.902	80.00- 120.00	100.00
8.641	8.641 (1.003)	114	294174			2.13- 62.13	32.20
8.641	8.641 (1.003)	77	491665			26.35- 86.35	53.81
155 Ethyl Benzene					CAS #: 100-41-4		
8.684	8.684 (1.008)	106	459018	50.0000	49.132	80.00- 120.00	100.00
8.684	8.684 (1.008)	91	1439882			282.48- 342.48	313.69
156 Nonane					CAS #: 111-84-2		
8.705	8.705 (1.011)	43	825944	50.0000	45.612	80.00- 120.00	100.00
8.705	8.705 (1.011)	57	758137			59.52- 119.52	91.79
8.705	8.705 (1.011)	85	260803			0.00- 59.76	31.58
158 m,p-Xylene					CAS #: 108-38-3		
8.784	8.784 (1.020)	106	585551	50.0000	50.380	80.00- 120.00	100.00
8.784	8.784 (1.020)	91	1162462			171.36- 231.36	198.52
164 o-Xylene					CAS #: 95-47-6		
9.121	9.121 (1.059)	106	545303	50.0000	49.420	80.00- 120.00	100.00
9.121	9.121 (1.059)	91	1155970			179.99- 239.99	211.99
165 Styrene					CAS #: 100-42-5		
9.149	9.149 (1.062)	104	975960	50.0000	51.053	80.00- 120.00	100.00

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
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165 Styrene (continued)							
9.142	9.142 (1.062)	78	460193			19.09- 79.09	47.15
167 Bromoform					CAS #: 75-25-2		
9.350	9.350 (1.086)	173	761363	50.0000	54.660	80.00- 120.00	100.00
9.350	9.350 (1.086)	171	392743			21.45- 81.45	51.58
168 Cumene					CAS #: 98-82-8		
9.414	9.414 (1.093)	105	1768268	50.0000	50.688	80.00- 120.00	100.00
9.414	9.414 (1.093)	120	479459			0.00- 56.99	27.11
9.407	9.407 (1.092)	51	204153			0.00- 41.77	11.55
169 Cyclohexanone					CAS #: 108-94-1		
9.579	9.579 (1.112)	55	532657	50.0000	48.519	80.00- 120.00	100.00
9.579	9.579 (1.112)	98	206505			9.22- 69.22	38.77
9.579	9.579 (1.112)	42	372034			42.60- 102.60	69.84
175 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
9.737	9.737 (1.131)	83	921272	50.0000	53.265	80.00- 120.00	100.00
9.737	9.737 (1.131)	85	593860			34.35- 94.35	64.46
177 Bromobenzene					CAS #: 108-86-1		
9.730	9.730 (1.130)	156	604980	50.0000	55.786	80.00- 120.00	100.00
9.737	9.737 (1.131)	158	590566			67.29- 127.29	97.62
9.730	9.730 (1.130)	77	930896			132.41- 192.41	153.87
178 Propylbenzene					CAS #: 103-65-1		
9.758	9.758 (1.133)	91	2219191	50.0000	54.519	80.00- 120.00	100.00
9.758	9.758 (1.133)	120	525592			0.00- 53.77	23.68
9.758	9.758 (1.133)	105	85289			0.00- 33.81	3.84
179 1,2,3-Trichloropropane					CAS #: 96-18-4		
9.787	9.787 (1.136)	110	284906	50.0000	54.683	80.00- 120.00	100.00
9.787	9.787 (1.136)	75	857877			285.00- 345.00	301.11
9.787	9.787 (1.136)	61	237150			54.06- 114.06	83.24
181 trans-1,4-Dichloro-2-butene					CAS #: 110-57-6		
9.787	9.787 (1.136)	53	211869	50.0000	51.390	80.00- 120.00	100.00
9.787	9.787 (1.136)	89	102773			21.19- 81.19	48.51
9.787	9.787 (1.136)	75	857877			372.45- 432.45	404.91
182 Decane					CAS #: 124-18-5		
9.808	9.808 (1.139)	57	1061558	50.0000	50.437	80.00- 120.00	100.00
9.808	9.808 (1.139)	71	360588			4.13- 64.13	33.97
9.808	9.808 (1.139)	142	51084			0.00- 34.73	4.81

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
183 4-Ethyltoluene					CAS #: 622-96-8		
9.851	9.851 (1.144)	120	567762	50.0000	53.812	80.00- 120.00	100.00
9.851	9.851 (1.144)	105	1841978			296.79- 356.79	324.43
184 2-Chlorotoluene					CAS #: 95-49-8		
9.873	9.873 (1.146)	126	472225	50.0000	55.083	80.00- 120.00	100.00
9.873	9.873 (1.146)	91	1661050			336.29- 396.29	351.75
9.873	9.873 (1.146)	65	238533			38.83- 98.83	50.51
185 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
9.901	9.901 (1.150)	120	786677	50.0000	53.084	80.00- 120.00	100.00
9.901	9.901 (1.150)	105	1594417			176.40- 236.40	202.68
188 alpha Methyl Styrene					CAS #: 98-83-9		
10.102	10.102 (1.173)	118	754867	50.0000	49.736	80.00- 120.00	100.00
10.102	10.102 (1.173)	103	425217			26.64- 86.64	56.33
189 tert-Butylbenzene					CAS #: 98-06-6		
10.174	10.174 (1.181)	119	1399786	50.0000	51.337	80.00- 120.00	100.00
10.174	10.174 (1.181)	134	352018			0.00- 54.82	25.15
10.174	10.174 (1.181)	91	906931			36.92- 96.92	64.79
190 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
10.224	10.224 (1.187)	105	1483125	50.0000	50.754	80.00- 120.00	100.00
10.224	10.224 (1.187)	120	698580			16.58- 76.58	47.10
192 sec-Butylbenzene					CAS #: 135-98-8		
10.360	10.360 (1.203)	134	451515	50.0000	51.267	80.00- 120.00	100.00
10.353	10.353 (1.202)	105	2163387			451.53- 511.53	479.14
10.353	10.353 (1.202)	91	338394			46.48- 106.48	74.95
194 p-Cymene					CAS #: 99-87-6		
10.467	10.467 (1.215)	119	1843828	50.0000	49.992	80.00- 120.00	100.00
10.467	10.467 (1.215)	134	492389			0.00- 56.79	26.70
10.467	10.467 (1.215)	91	426652			0.00- 54.04	23.14
195 1,3-Dichlorobenzene					CAS #: 541-73-1		
10.517	10.517 (1.221)	146	1038447	50.0000	52.306	80.00- 120.00	100.00
10.517	10.517 (1.221)	148	656123			33.53- 93.53	63.18
10.517	10.517 (1.221)	111	409606			11.05- 71.05	39.44
196 1,4-Dichlorobenzene					CAS #: 106-46-7		
10.596	10.596 (1.230)	146	1044420	50.0000	51.073	80.00- 120.00	100.00
10.596	10.596 (1.230)	148	656127			33.47- 93.47	62.82
10.596	10.596 (1.230)	111	390504			9.65- 69.65	37.39

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
199 alpha-Chlorotoluene					CAS #: 100-44-7		
10.711	10.711 (1.244)	91	1300080	50.0000	46.239	80.00- 120.00	100.00
10.711	10.711 (1.244)	126	291725			0.00- 52.04	22.44
201 Undecane					CAS #: 1120-21-4		
10.804	10.804 (1.254)	57	1077012	50.0000	43.424	80.00- 120.00	100.00
10.804	10.804 (1.254)	43	915697			55.86- 115.86	85.02
202 Butylbenzene					CAS #: 104-51-8		
10.818	10.818 (1.256)	134	484536	50.0000	50.668	80.00- 120.00	100.00
10.818	10.818 (1.256)	91	1741696			331.99- 391.99	359.46
10.818	10.818 (1.256)	92	901366			161.01- 221.01	186.03
204 1,2-Dichlorobenzene					CAS #: 95-50-1		
10.926	10.926 (1.269)	146	980296	50.0000	51.097	80.00- 120.00	100.00
10.926	10.926 (1.269)	148	620331			33.23- 93.23	63.28
10.919	10.919 (1.268)	111	396843			12.36- 72.36	40.48
206 1,2-Dibromo-3-chloropropane					CAS #: 96-12-8		
11.606	11.606 (1.348)	157	557249	50.0000	50.094	80.00- 120.00	100.00
11.599	11.599 (1.347)	75	457438			58.96- 118.96	82.09
11.606	11.606 (1.348)	155	428351			47.82- 107.82	76.87
207 Dodecane					CAS #: 112-40-3		
11.714	11.714 (1.360)	57	829398	61.8000	39.547	80.00- 120.00	100.00
11.714	11.714 (1.360)	43	665605			50.85- 110.85	80.25
213 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
12.301	12.301 (1.428)	180	726264	62.9500	53.298	80.00- 120.00	100.00
12.301	12.301 (1.428)	182	697634			65.40- 125.40	96.06
215 Hexachlorobutadiene					CAS #: 87-68-3		
12.387	12.387 (1.438)	225	572552	64.3500	55.624	80.00- 120.00	100.00
12.387	12.387 (1.438)	223	362494			33.70- 93.70	63.31
216 Naphthalene					CAS #: 91-20-3		
12.559	12.559 (1.458)	128	165849	6.35000	3.986	80.00- 120.00	100.00
12.559	12.559 (1.458)	127	21965			0.00- 43.10	13.24
222 1,2,3-Trichlorobenzene					CAS #: 87-61-6		
12.810	12.810 (1.487)	180	629667	66.5500	50.497	80.00- 120.00	100.00
12.810	12.810 (1.487)	182	599674			65.67- 125.67	95.24
12.802	12.802 (1.487)	145	221171			6.02- 66.02	35.13

US32TAR1

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd3.i Injection Date: 27-JUL-2021 11:36
Lab File ID: 3072703.d Init. Cal. Date(s): 22-JUN-2021 23-JUN-2021
Analysis Type: AIR Init. Cal. Times: 15:51 00:09
Lab Sample ID: CCV Quant Type: ISTD
Method: /chem/msd3.i/27JUL21.b/321q0622a.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 104 1,2-Dichloroethane-d4	1.37578	1.33305	0.010	3.10557	30.00000	Averaged
$ 134 Toluene-d8	1.02971	0.98590	0.010	4.25419	30.00000	Averaged
$ 170 4-Bromofluorobenzene	0.66126	0.71727	0.010	-8.47061	30.00000	Averaged
4 Freon 134a	0.59487	0.62186	0.010	-4.53813	30.00000	Averaged
5 Propylene	0.60387	0.57567	0.010	4.66933	30.00000	Averaged
7 1,1-Difluoroethane	0.39363	0.39695	0.010	-0.84252	30.00000	Averaged
8 Freon 12	1.74153	1.74619	0.010	-0.26744	30.00000	Averaged
9 Chlorodifluoromethane	0.19140	0.19736	0.010	-3.11100	30.00000	Averaged
10 Freon 114	1.29040	1.32663	0.010	-2.80694	30.00000	Averaged
12 Isobutane	1.35725	1.31678	0.010	2.98113	30.00000	Averaged
15 Chloromethane	0.72383	0.85562	0.010	-18.20663	30.00000	Averaged
18 Butane	0.17094	0.17924	0.010	-4.85348	30.00000	Averaged
19 Vinyl Chloride	0.77458	0.81064	0.010	-4.65588	30.00000	Averaged
20 1,3-Butadiene	0.70987	0.65534	0.010	7.68207	30.00000	Averaged
24 Bromomethane	0.61260	0.61350	0.010	-0.14794	30.00000	Averaged
30 Chloroethane	0.36360	0.35380	0.010	2.69410	30.00000	Averaged
31 Isopentane	0.92980	0.86400	0.010	7.07636	30.00000	Averaged
32 Vinyl Bromide	0.66605	0.64583	0.010	3.03523	30.00000	Averaged
33 Freon 11	1.84264	1.94095	0.010	-5.33520	30.00000	Averaged
34 Dichlorofluoromethane	1.47301	1.54363	0.010	-4.79430	30.00000	Averaged
35 Pentane	1.48134	1.39914	0.010	5.54945	30.00000	Averaged
38 Ethyl Ether	0.33213	0.30320	0.010	8.71070	30.00000	Averaged
39 Ethanol	0.14907	0.12382	0.010	16.93734	30.00000	Averaged
42 Acrolein	0.24737	0.23319	0.010	5.73210	30.00000	Averaged
43 Freon 113	1.25964	1.24986	0.010	0.77612	30.00000	Averaged
44 1,1-Dichloroethene	0.75871	0.69153	0.010	8.85400	30.00000	Averaged
47 Acetone	0.41920	0.40370	0.010	3.69752	30.00000	Averaged
48 Carbon Disulfide	1.88768	1.89585	0.010	-0.43310	30.00000	Averaged
49 Iodomethane	1.63230	1.74017	0.010	-6.60839	30.00000	Averaged
52 2-Propanol	1.50759	1.41122	0.010	6.39245	30.00000	Averaged
54 3-Chloropropene	0.32499	0.28924	0.010	11.00109	30.00000	Averaged
57 Acetonitrile	0.66010	0.63653	0.010	3.57082	30.00000	Averaged
59 Methylene Chloride	1.00325	0.96775	0.010	3.53792	30.00000	Averaged
62 tert-Butyl alcohol	1.89229	1.67066	0.010	11.71242	30.00000	Averaged
63 Methyl tert-butyl ether	2.04241	1.82694	0.010	10.54999	30.00000	Averaged

US32TAR1

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd3.i Injection Date: 27-JUL-2021 11:36
Lab File ID: 3072703.d Init. Cal. Date(s): 22-JUN-2021 23-JUN-2021
Analysis Type: AIR Init. Cal. Times: 15:51 00:09
Lab Sample ID: CCV Quant Type: ISTD
Method: /chem/msd3.i/27JUL21.b/321q0622a.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	MIN %D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
64 trans-1,2-Dichloroethene	0.51058	0.44268	0.010	13.29796	30.00000	Averaged
66 Acrylonitrile	0.61277	0.49802	0.010	18.72571	30.00000	Averaged
67 Hexane	1.38442	1.23831	0.010	10.55372	30.00000	Averaged
71 1,1-Dichloroethane	1.42374	1.37475	0.010	3.44110	30.00000	Averaged
72 Isopropyl ether	2.92166	2.67567	0.010	8.41960	30.00000	Averaged
73 Vinyl Acetate	0.17504	0.16110	0.010	7.96673	30.00000	Averaged
79 Ethyl-tert-butyl ether	2.82061	2.52553	0.010	10.46149	30.00000	Averaged
84 2,2-Dichloropropane	1.32635	1.26542	0.010	4.59356	30.00000	Averaged
85 cis-1,2-Dichloroethene	0.50614	0.46652	0.010	7.82695	30.00000	Averaged
86 2-Butanone	0.35353	0.33831	0.010	4.30589	30.00000	Averaged
87 Ethyl Acetate	0.29145	0.28153	0.010	3.40426	30.00000	Averaged
89 Tetrahydrofuran	0.99690	0.87012	0.010	12.71819	30.00000	Averaged
92 Chloroform	1.56743	1.46501	0.010	6.53424	30.00000	Averaged
94 Cyclohexane	0.99074	0.84907	0.010	14.29982	30.00000	Averaged
96 1,1,1-Trichloroethane	1.76184	1.57673	0.010	10.50670	30.00000	Averaged
97 Carbon Tetrachloride	1.62268	1.59350	0.010	1.79784	30.00000	Averaged
99 1,1-Dichloropropene	0.11377	0.11296	0.010	0.71612	30.00000	Averaged
101 2,2,4-Trimethylpentane	4.32938	3.69961	0.010	14.54644	30.00000	Averaged
102 Benzene	0.57049	0.56158	0.010	1.56337	30.00000	Averaged
105 tert-Amyl methyl ether	0.15212	0.14191	0.010	6.70559	30.00000	Averaged
106 1,2-Dichloroethane	0.32845	0.33107	0.010	-0.79695	30.00000	Averaged
107 Heptane	0.22471	0.19413	0.010	13.60480	30.00000	Averaged
110 n-Butanol	0.18286	0.17156	0.010	6.17726	30.00000	Averaged
111 Trichloroethene	0.28620	0.27354	0.010	4.42395	30.00000	Averaged
114 1,2-Dichloropropane	0.13224	0.09802	0.010	25.87856	30.00000	Averaged
116 Methyl Methacrylate	0.24060	0.22954	0.010	4.59770	30.00000	Averaged
117 1,4-Dioxane	0.14452	0.13587	0.010	5.98577	30.00000	Averaged
118 Dibromomethane	0.26795	0.29029	0.010	-8.33606	30.00000	Averaged
122 Bromodichloromethane	0.47947	0.43752	0.010	8.74855	30.00000	Averaged
126 cis-1,3-Dichloropropene	0.35637	0.32186	0.010	9.68441	30.00000	Averaged
127 Methylcyclohexane	0.38272	0.33273	0.010	13.06221	30.00000	Averaged
131 4-Methyl-2-pentanone	0.24232	0.19853	0.010	18.07048	30.00000	Averaged
137 Toluene	0.76548	0.71108	0.010	7.10752	30.00000	Averaged
136 Octane	0.25468	0.22010	0.010	13.57674	30.00000	Averaged
139 trans-1,3-Dichloropropene	0.36821	0.35416	0.010	3.81660	30.00000	Averaged

US32TAR1

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd3.i Injection Date: 27-JUL-2021 11:36
Lab File ID: 3072703.d Init. Cal. Date(s): 22-JUN-2021 23-JUN-2021
Analysis Type: AIR Init. Cal. Times: 15:51 00:09
Lab Sample ID: CCV Quant Type: ISTD
Method: /chem/msd3.i/27JUL21.b/321q0622a.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
141 1,1,2-Trichloroethane	0.28317	0.27627	0.010	2.43865	30.00000	Averaged
142 Tetrachloroethene	0.39165	0.40678	0.010	-3.86105	30.00000	Averaged
143 2-Hexanone	0.32527	0.31022	0.010	4.62596	30.00000	Averaged
144 1,3-Dichloropropane	0.36522	0.32651	0.010	10.60026	30.00000	Averaged
146 Dibromochloromethane	0.53722	0.56642	0.010	-5.43611	30.00000	Averaged
148 1,2-Dibromoethane (EDB)	0.43975	0.44460	0.010	-1.10085	30.00000	Averaged
151 1-Bromo-2-Chloroethane	0.46270	0.43296	0.010	6.42763	30.00000	Averaged
154 Chlorobenzene	0.68328	0.66827	0.010	2.19635	30.00000	Averaged
155 Ethyl Benzene	0.34167	0.33574	0.010	1.73489	30.00000	Averaged
156 Nonane	0.66223	0.60412	0.010	8.77579	30.00000	Averaged
158 m,p-Xylene	0.42506	0.42829	0.010	-0.75931	30.00000	Averaged
164 o-Xylene	0.40353	0.39885	0.010	1.15887	30.00000	Averaged
165 Styrene	0.69912	0.71384	0.010	-2.10563	30.00000	Averaged
167 Bromoform	0.50940	0.55688	0.010	-9.32104	30.00000	Averaged
168 Cumene	1.27581	1.29336	0.010	-1.37574	30.00000	Averaged
169 Cyclohexanone	0.40149	0.38960	0.010	2.96206	30.00000	Averaged
175 1,1,2,2-Tetrachloroethane	0.63254	0.67384	0.010	-6.52930	30.00000	Averaged
177 Bromobenzene	0.39660	0.44250	0.010	-11.57164	30.00000	Averaged
178 Propylbenzene	1.48863	1.62317	0.010	-9.03848	30.00000	Averaged
179 1,2,3-Trichloropropane	0.19054	0.20839	0.010	-9.36589	30.00000	Averaged
181 trans-1,4-Dichloro-2-butene	0.15077	0.15497	0.010	-2.78020	30.00000	Averaged
182 Decane	0.76973	0.77645	0.010	-0.87382	30.00000	Averaged
183 4-Ethyltoluene	0.38586	0.41528	0.010	-7.62316	30.00000	Averaged
184 2-Chlorotoluene	0.31353	0.34540	0.010	-10.16545	30.00000	Averaged
185 1,3,5-Trimethylbenzene	0.54196	0.57540	0.010	-6.16901	30.00000	Averaged
188 alpha Methyl Styrene	0.55506	0.55213	0.010	0.52770	30.00000	Averaged
189 tert-Butylbenzene	0.99718	1.02384	0.010	-2.67402	30.00000	Averaged
190 1,2,4-Trimethylbenzene	1.06868	1.08480	0.010	-1.50784	30.00000	Averaged
192 sec-Butylbenzene	0.32209	0.33025	0.010	-2.53484	30.00000	Averaged
194 p-Cymene	1.34882	1.34862	0.010	0.01488	30.00000	Averaged
195 1,3-Dichlorobenzene	0.72606	0.75955	0.010	-4.61229	30.00000	Averaged
196 1,4-Dichlorobenzene	0.74787	0.76392	0.010	-2.14568	30.00000	Averaged
199 alpha-Chlorotoluene	1.02827	0.95091	0.010	7.52272	30.00000	Averaged
201 Undecane	0.90704	0.78776	0.010	13.15089	30.00000	Averaged
202 Butylbenzene	0.34973	0.35440	0.010	-1.33616	30.00000	Averaged

US32TAR1

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd3.i Injection Date: 27-JUL-2021 11:36
Lab File ID: 3072703.d Init. Cal. Date(s): 22-JUN-2021 23-JUN-2021
Analysis Type: AIR Init. Cal. Times: 15:51 00:09
Lab Sample ID: CCV Quant Type: ISTD
Method: /chem/msd3.i/27JUL21.b/321q0622a.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
204 1,2-Dichlorobenzene	0.70162	0.71701	0.010	-2.19455	30.00000	Averaged	
206 1,2-Dibromo-3-chloropropane	0.40682	0.40759	0.010	-0.18742	30.00000	Averaged	
207 Dodecane	0.76699	0.49081	0.010	36.00783	30.00000	Averaged	<-
213 1,2,4-Trichlorobenzene	0.49834	0.42193	0.010	15.33324	30.00000	Averaged	
215 Hexachlorobutadiene	0.37644	0.32539	0.010	13.56030	30.00000	Averaged	
216 Naphthalene	1.52174	0.95517	0.010	37.23167	30.00000	Averaged	<-
222 1,2,3-Trichlorobenzene	0.45602	0.34602	0.010	24.12104	30.00000	Averaged	

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd3.i
Lab File ID: 3072703.d
Lab Smp Id: CCV
Analysis Type: VOA
Quant Type: ISTD
Operator: LD
Method File: /chem/msd3.i/27JUL21.b/321q0622a.m
Misc Info: 50ppbv (100ppbv)

Calibration Date: 27-JUL-2021
Calibration Time: 13:07
Client Smp ID: CCV
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	270618	162371	378865	238986	-11.69
108 1,4-Difluorobenze	961738	577043	1346433	785289	-18.35
153 Chlorobenzene-d5	790057	474034	1106080	683596	-13.48

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.28	4.95	5.61	5.28	-0.00
108 1,4-Difluorobenze	6.17	5.84	6.50	6.18	0.23
153 Chlorobenzene-d5	8.61	8.28	8.94	8.61	-0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msd3.i/27JUL21.b/3072703.d

Page 1

Date : 27-JUL-2021 11:36

Client ID: CCV

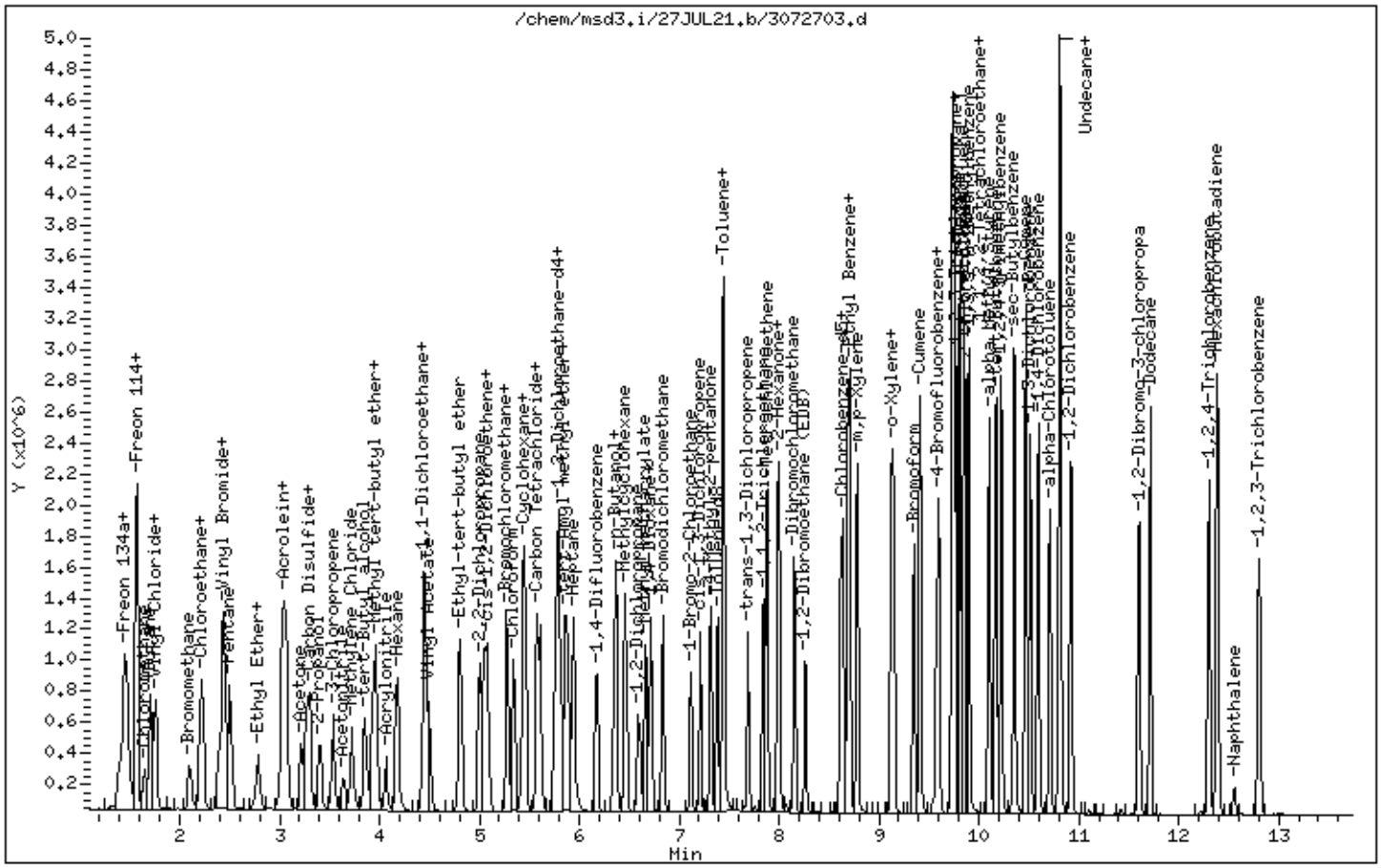
Instrument: msd3.i

Sample Info: 100mL 3018-2071A

Operator: LD

Column phase: RTX-624

Column diameter: 0.25



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Client Sample ID: LCS

Lab ID#: 2107284-29A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3072603a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/26/21 10:47 AM**	

Compound	%Recovery	Method Limits
1,1,1-Trichloroethane	88	70-130
1,1,2,2-Tetrachloroethane	97	70-130
1,1,2-Trichloroethane	97	70-130
1,1-Dichloroethane	92	70-130
1,1-Dichloroethene	93	70-130
1,2,4-Trichlorobenzene	105	70-130
1,2,4-Trimethylbenzene	99	70-130
1,2-Dibromoethane (EDB)	101	70-130
1,2-Dichlorobenzene	101	70-130
1,2-Dichloroethane	103	70-130
1,2-Dichloropropane	83	70-130
1,3,5-Trimethylbenzene	96	70-130
1,3-Butadiene	98	70-130
1,3-Dichlorobenzene	103	70-130
1,4-Dichlorobenzene	102	70-130
1,4-Dioxane	95	70-130
2,2,4-Trimethylpentane	85	70-130
2-Butanone (Methyl Ethyl Ketone)	95	70-130
2-Hexanone	94	70-130
2-Propanol	98	70-130
3-Chloropropene	90	70-130
4-Ethyltoluene	100	70-130
4-Methyl-2-pentanone	83	70-130
Acetone	96	70-130
alpha-Chlorotoluene	95	70-130
Benzene	100	70-130
Bromodichloromethane	92	70-130
Bromoform	114	70-130
Bromomethane	98	70-130
Carbon Disulfide	101	70-130
Carbon Tetrachloride	96	70-130
Chlorobenzene	98	70-130
Chloroethane	99	70-130
Chloroform	95	70-130
Chloromethane	111	70-130
cis-1,2-Dichloroethene	91	70-130
cis-1,3-Dichloropropene	91	70-130
Cumene	103	70-130
Cyclohexane	85	70-130
Dibromochloromethane	105	70-130
Ethanol	69 Q	70-130
Ethyl Benzene	100	70-130

eurofins | Air Toxics

Client Sample ID: LCS

Lab ID#: 2107284-29A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3072603a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/26/21 10:47 AM**	

Compound	%Recovery	Method Limits
Freon 11	106	70-130
Freon 12	102	70-130
Freon 113	100	70-130
Freon 114	105	70-130
Heptane	90	70-130
Hexachlorobutadiene	107	70-130
Hexane	92	70-130
m,p-Xylene	100	70-130
Methyl tert-butyl ether	92	70-130
Methylene Chloride	96	70-130
Naphthalene	79	60-140
o-Xylene	101	70-130
Propylbenzene	100	70-130
Propylene	96	70-130
Styrene	102	70-130
Tetrachloroethene	104	70-130
Tetrahydrofuran	89	70-130
Toluene	94	70-130
trans-1,2-Dichloroethene	88	70-130
trans-1,3-Dichloropropene	97	70-130
Trichloroethene	97	70-130
Vinyl Acetate	92	70-130
Vinyl Chloride	103	70-130

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	97	70-130
1,2-Dichloroethane-d4	95	70-130
4-Bromofluorobenzene	105	70-130

US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msd3.i/26JUL21.b/3072603a.d
Lab Smp Id: LCS Client Smp ID: LCS
Inj Date : 26-JUL-2021 10:47
Operator : LD Inst ID: msd3.i
Smp Info : 100mL 3018-2121A
Misc Info : 50ppbv (100ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msd3.i/26JUL21.b/321q0622a.m
Meth Date : 28-Jul-2021 12:16 uexa Quant Type: ISTD
Cal Date : 23-JUN-2021 00:09 Cal File: 3062223.d
Als bottle: 14 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT20LCS_new.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE		(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 90 Bromochloromethane							CAS #: 74-97-5	
5.284	5.284 (1.000)	130	278488	25.0000			80.00- 120.00	100.00
5.284	5.284 (1.000)	128	215739				48.46- 108.46	77.47
5.270	5.284 (1.000)	49	397682				120.39- 180.39	142.80
* 108 1,4-Difluorobenzene							CAS #: 540-36-3	
6.166	6.166 (1.000)	114	900018	25.0000			80.00- 120.00	100.00
6.166	6.166 (1.000)	88	133825				0.00- 45.52	14.87
* 153 Chlorobenzene-d5							CAS #: 3114-55-4	
8.612	8.612 (1.000)	117	790831	25.0000			80.00- 120.00	100.00
8.612	8.612 (1.000)	82	421521				25.46- 85.46	53.30
$ 104 1,2-Dichloroethane-d4							CAS #: 17060-07-0	
5.816	5.816 (1.101)	65	363647	23.7283		23.728	80.00- 120.00	100.00
5.816	5.816 (1.101)	67	183488				21.66- 81.66	50.46
$ 134 Toluene-d8							CAS #: 2037-26-5	
7.380	7.387 (1.197)	98	896871	24.1938		24.194	80.00- 120.00	100.00
7.380	7.387 (1.197)	70	101434				0.00- 41.47	11.31

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 134 Toluene-d8 (continued)							
7.380	7.387 (1.197)	100	591906			36.47- 96.47	66.00
$ 170 4-Bromofluorobenzene					CAS #: 460-00-4		
9.601	9.601 (1.115)	174	549918	26.2894	26.289	80.00- 120.00	100.00
9.601	9.601 (1.115)	95	633834			93.06- 153.06	115.26
9.601	9.601 (1.115)	176	515012			62.87- 122.87	93.65
4 Freon 134a					CAS #: 811-97-2		
1.395	1.395 (0.264)	83	373516	56.3669	56.367	80.00- 120.00	100.00
1.395	1.395 (0.264)	69	298653			51.82- 111.82	79.96
1.493	1.493 (0.282)	51	815679			194.91- 254.91	218.38
5 Propylene					CAS #: 115-07-1		
1.437	1.423 (0.272)	41	321809	47.8400	47.840	80.00- 120.00	100.00
1.437	1.423 (0.272)	42	210885			35.61- 95.61	65.53
1.437	1.423 (0.272)	39	234195			42.66- 102.66	72.77
7 1,1-Difluoroethane					CAS #: 75-37-6		
1.451	1.451 (0.275)	65	220162	50.2092	50.209	80.00- 120.00	100.00
1.493	1.493 (0.282)	51	815679			321.86- 381.86	370.49
1.451	1.451 (0.275)	47	167206			45.34- 105.34	75.95
8 Freon 12					CAS #: 75-71-8		
1.465	1.465 (0.277)	85	990349	51.0493	51.049	80.00- 120.00	100.00
1.465	1.465 (0.277)	87	318076			2.63- 62.63	32.12
9 Chlorodifluoromethane					CAS #: 75-45-6		
1.493	1.493 (0.282)	67	104553	49.0369	49.037	80.00- 120.00	100.00
1.493	1.493 (0.282)	51	815679			719.76- 779.76	780.16
10 Freon 114					CAS #: 76-14-2		
1.563	1.563 (0.296)	135	751922	52.3095	52.309	80.00- 120.00	100.00
1.577	1.563 (0.298)	137	241188			2.12- 62.12	32.08
12 Isobutane					CAS #: 75-28-5		
1.577	1.577 (0.298)	43	742222	49.0918	49.092	80.00- 120.00	100.00
1.577	1.577 (0.298)	42	240725			2.44- 62.44	32.43
1.577	1.577 (0.298)	58	25851			0.00- 33.26	3.48
15 Chloromethane					CAS #: 74-87-3		
1.646	1.646 (0.312)	50	449218	55.7123	55.712	80.00- 120.00	100.00
1.646	1.646 (0.312)	52	145896			2.41- 62.41	32.48
18 Butane					CAS #: 106-97-8		
1.702	1.702 (0.322)	58	96713	50.7891	50.789	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
18 Butane (continued)							
1.702	1.702 (0.322)	43	700005			727.41- 787.41	723.80
19 Vinyl Chloride					CAS #: 75-01-4		
1.744	1.744 (0.330)	62	446333	51.7283	51.728	80.00- 120.00	100.00
1.744	1.744 (0.330)	64	132585			1.28- 61.28	29.71
20 1,3-Butadiene					CAS #: 106-99-0		
1.758	1.758 (0.333)	54	387987	49.0649	49.065	80.00- 120.00	100.00
1.758	1.758 (0.333)	39	352813			69.23- 129.23	90.93
24 Bromomethane					CAS #: 74-83-9		
2.094	2.094 (0.396)	94	335323	49.1386	49.139	80.00- 120.00	100.00
2.094	2.094 (0.396)	96	314129			62.78- 122.78	93.68
30 Chloroethane					CAS #: 75-00-3		
2.206	2.206 (0.417)	64	199971	49.3715	49.372	80.00- 120.00	100.00
2.206	2.206 (0.417)	66	59868			1.44- 61.44	29.94
2.206	2.206 (0.417)	49	69215			4.12- 64.12	34.61
31 Isopentane					CAS #: 78-78-4		
2.220	2.220 (0.420)	43	489278	47.2390	47.239	80.00- 120.00	100.00
2.220	2.220 (0.420)	57	351342			38.82- 98.82	71.81
32 Vinyl Bromide					CAS #: 593-60-2		
2.388	2.388 (0.452)	106	362432	48.8491	48.849	80.00- 120.00	100.00
2.388	2.388 (0.452)	108	334342			63.14- 123.14	92.25
33 Freon 11					CAS #: 75-69-4		
2.430	2.430 (0.460)	101	1082760	52.7504	52.750	80.00- 120.00	100.00
2.430	2.430 (0.460)	103	709294			35.12- 95.12	65.51
34 Dichlorofluoromethane					CAS #: 75-43-4		
2.444	2.444 (0.462)	67	854209	52.0587	52.059	80.00- 120.00	100.00
2.444	2.444 (0.462)	69	261551			0.74- 60.74	30.62
35 Pentane					CAS #: 109-66-0		
2.500	2.500 (0.473)	43	751003	45.5113	45.511	80.00- 120.00	100.00
2.500	2.500 (0.473)	57	124234			0.00- 45.97	16.54
2.500	2.500 (0.473)	72	62026			0.00- 38.10	8.26
38 Ethyl Ether					CAS #: 60-29-7		
2.780	2.780 (0.526)	74	176945	47.8260	47.826	80.00- 120.00	100.00
2.780	2.780 (0.526)	59	311641			147.68- 207.68	176.12
2.780	2.780 (0.526)	45	405542			206.40- 266.40	229.19

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
39 Ethanol					CAS #: 64-17-5		
2.766	2.766 (0.523)	46	66770	40.2105	40.210	80.00- 120.00	100.00(R)
2.780	2.766 (0.526)	45	404853			523.01- 583.01	606.34
42 Acrolein					CAS #: 107-02-8		
3.032	3.032 (0.574)	55	144177	52.3219	52.322	80.00- 120.00	100.00
3.032	3.032 (0.574)	56	202569			110.33- 170.33	140.50
43 Freon 113					CAS #: 76-13-1		
3.032	3.032 (0.574)	151	703383	50.1279	50.128	80.00- 120.00	100.00
3.032	3.032 (0.574)	153	450501			33.72- 93.72	64.05
3.032	3.032 (0.574)	101	852833			89.67- 149.67	121.25
44 1,1-Dichloroethene					CAS #: 75-35-4		
3.074	3.074 (0.582)	96	394806	46.7134	46.713	80.00- 120.00	100.00
3.074	3.074 (0.582)	98	249598			33.39- 93.39	63.22
3.074	3.074 (0.582)	61	778380			163.82- 223.82	197.16
47 Acetone					CAS #: 67-64-1		
3.214	3.214 (0.608)	58	225380	48.2649	48.265	80.00- 120.00	100.00
3.214	3.214 (0.608)	43	746719			299.66- 359.66	331.32
48 Carbon Disulfide					CAS #: 75-15-0		
3.298	3.298 (0.624)	76	1066508	50.7189	50.719	80.00- 120.00	100.00
49 Iodomethane					CAS #: 74-88-4		
3.270	3.270 (0.619)	142	1012996	55.7109	55.711	80.00- 120.00	100.00
3.270	3.270 (0.619)	127	470398			14.58- 74.58	46.44
52 2-Propanol					CAS #: 67-63-0		
3.395	3.395 (0.643)	45	825108	49.1317	49.132	80.00- 120.00	100.00
3.395	3.395 (0.643)	43	166591			0.00- 48.61	20.19
54 3-Chloropropene					CAS #: 107-05-1		
3.535	3.535 (0.669)	76	162663	44.9313	44.931	80.00- 120.00	100.00
3.535	3.535 (0.669)	41	565246			338.06- 398.06	347.50
57 Acetonitrile					CAS #: 75-05-8		
3.633	3.633 (0.688)	41	335850	45.6739	45.674	80.00- 120.00	100.00
3.633	3.633 (0.688)	40	177926			21.81- 81.81	52.98
3.633	3.633 (0.688)	38	44279			0.00- 41.86	13.18
59 Methylene Chloride					CAS #: 75-09-2		
3.717	3.717 (0.703)	49	534172	47.7976	47.798	80.00- 120.00	100.00
3.717	3.717 (0.703)	84	325292			30.77- 90.77	60.90
3.717	3.717 (0.703)	51	165096			1.39- 61.39	30.91

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
62 tert-Butyl alcohol					CAS #: 75-65-0		
3.857	3.857 (0.730)	59	951971	45.1617	45.162	80.00- 120.00	100.00
3.857	3.857 (0.730)	41	222036			0.00- 51.05	23.32
3.857	3.857 (0.730)	57	99918			0.00- 41.68	10.50
63 Methyl tert-butyl ether					CAS #: 1634-04-4		
3.941	3.941 (0.746)	73	1047239	46.0294	46.029	80.00- 120.00	100.00
3.941	3.941 (0.746)	57	304876			0.00- 58.86	29.11
3.941	3.941 (0.746)	41	290971			0.00- 57.27	27.78
64 trans-1,2-Dichloroethene					CAS #: 156-60-5		
3.969	3.969 (0.751)	98	250216	43.9931	43.993	80.00- 120.00	100.00
3.969	3.969 (0.751)	61	667833			244.59- 304.59	266.90
3.969	3.969 (0.751)	96	392581			129.84- 189.84	156.90
66 Acrylonitrile					CAS #: 107-13-1		
4.067	4.067 (0.770)	52	276695	40.5358	40.536	80.00- 120.00	100.00
4.067	4.067 (0.770)	53	328318			88.50- 148.50	118.66
67 Hexane					CAS #: 110-54-3		
4.179	4.179 (0.791)	57	708975	45.9724	45.972	80.00- 120.00	100.00
4.179	4.179 (0.791)	43	435806			32.99- 92.99	61.47
4.179	4.179 (0.791)	86	85660			0.00- 42.56	12.08
71 1,1-Dichloroethane					CAS #: 75-34-3		
4.459	4.459 (0.844)	63	726664	45.8180	45.818	80.00- 120.00	100.00
4.459	4.459 (0.844)	65	221651			0.76- 60.76	30.50
72 Isopropyl ether					CAS #: 108-20-3		
4.445	4.445 (0.841)	45	1433886	44.0573	44.057	80.00- 120.00	100.00
4.445	4.445 (0.841)	87	318109			0.00- 51.37	22.19
4.445	4.445 (0.841)	59	165785			0.00- 41.09	11.56
73 Vinyl Acetate					CAS #: 108-05-4		
4.501	4.501 (0.852)	86	89882	46.0963	46.096	80.00- 120.00	100.00
4.501	4.501 (0.852)	43	1235239			1391.63-1451.63	1374.29
79 Ethyl-tert-butyl ether					CAS #: 637-92-3		
4.809	4.809 (0.910)	59	1370059	43.6043	43.604	80.00- 120.00	100.00
4.809	4.809 (0.910)	87	458436			3.22- 63.22	33.46
4.809	4.809 (0.910)	41	266820			0.00- 48.12	19.48
84 2,2-Dichloropropane					CAS #: 594-20-7		
5.005	5.005 (0.947)	77	685729	46.4118	46.412	80.00- 120.00	100.00
5.005	5.005 (0.947)	79	220730			2.00- 62.00	32.19
5.005	5.005 (0.947)	97	162039			0.00- 53.36	23.63

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
85 cis-1,2-Dichloroethene					CAS #: 156-59-2		
5.046	5.046 (0.955)	98	255443	45.3065	45.306	80.00- 120.00	100.00
5.046	5.046 (0.955)	96	398569			127.22- 187.22	156.03
5.046	5.046 (0.955)	61	818829			283.85- 343.85	320.55
86 2-Butanone					CAS #: 78-93-3		
5.060	5.060 (0.958)	72	187847	47.6995	47.700	80.00- 120.00	100.00
5.074	5.060 (0.960)	43	1947169			1055.75-1115.75	1036.57
5.060	5.060 (0.958)	57	75949			10.59- 70.59	40.43
87 Ethyl Acetate					CAS #: 141-78-6		
5.088	5.088 (0.963)	45	152131	46.8588	46.859	80.00- 120.00	100.00
5.046	5.046 (0.955)	61	818829			450.31- 510.31	538.24
5.088	5.088 (0.963)	70	90385			30.42- 90.42	59.41
89 Tetrahydrofuran					CAS #: 109-99-9		
5.270	5.270 (0.997)	42	492174	44.3199	44.320	80.00- 120.00	100.00
5.270	5.270 (0.997)	71	166761			2.92- 62.92	33.88
5.270	5.270 (0.997)	72	173023			3.54- 63.54	35.15
92 Chloroform					CAS #: 67-66-3		
5.340	5.340 (1.011)	83	831336	47.6125	47.612	80.00- 120.00	100.00
5.340	5.340 (1.011)	85	541740			34.71- 94.71	65.16
94 Cyclohexane					CAS #: 110-82-7		
5.438	5.438 (1.029)	84	467606	42.3695	42.370	80.00- 120.00	100.00
5.438	5.438 (1.029)	56	673164			120.40- 180.40	143.96
5.438	5.438 (1.029)	41	377748			54.20- 114.20	80.78
96 1,1,1-Trichloroethane					CAS #: 71-55-6		
5.452	5.452 (1.032)	97	862239	43.9335	43.933	80.00- 120.00	100.00
5.452	5.452 (1.032)	99	550172			33.76- 93.76	63.81
97 Carbon Tetrachloride					CAS #: 56-23-5		
5.578	5.578 (1.056)	119	871325	48.2039	48.204	80.00- 120.00	100.00
5.578	5.578 (1.056)	117	903254			73.68- 133.68	103.66
99 1,1-Dichloropropene					CAS #: 563-58-6		
5.606	5.606 (0.909)	110	203973	49.7994	49.799	80.00- 120.00	100.00
5.606	5.606 (0.909)	75	524157			231.09- 291.09	256.97
101 2,2,4-Trimethylpentane					CAS #: 540-84-1		
5.774	5.774 (1.093)	57	2061009	42.7354	42.735	80.00- 120.00	100.00
5.774	5.774 (1.093)	56	640544			1.12- 61.12	31.08
5.774	5.774 (1.093)	41	580179			0.00- 57.49	28.15

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
102 Benzene					CAS #: 71-43-2		
5.788	5.788 (0.939)	78	1026245	49.9676	49.968	80.00- 120.00	100.00
5.788	5.788 (0.939)	77	246369			0.00- 53.80	24.01
105 tert-Amyl methyl ether					CAS #: 994-05-8		
5.858	5.858 (0.950)	87	263894	48.1888	48.189	80.00- 120.00	100.00
5.858	5.858 (0.950)	73	1038753			365.20- 425.20	393.63
5.858	5.858 (0.950)	55	324459			91.31- 151.31	122.95
106 1,2-Dichloroethane					CAS #: 107-06-2		
5.886	5.886 (0.955)	62	609753	51.5673	51.567	80.00- 120.00	100.00
5.886	5.886 (0.955)	64	189985			1.20- 61.20	31.16
107 Heptane					CAS #: 142-82-5		
5.942	5.942 (0.964)	71	363011	44.8740	44.874	80.00- 120.00	100.00
5.942	5.942 (0.964)	43	721017			179.02- 239.02	198.62
5.942	5.942 (0.964)	57	415853			84.85- 144.85	114.56
110 n-Butanol					CAS #: 71-36-3		
6.348	6.348 (1.030)	56	313361	47.6012	47.601	80.00- 120.00	100.00
6.348	6.348 (1.030)	41	214066			40.21- 100.21	68.31
6.348	6.348 (1.030)	43	166395			25.00- 85.00	53.10
111 Trichloroethene					CAS #: 79-01-6		
6.362	6.362 (1.032)	95	499686	48.4965	48.496	80.00- 120.00	100.00
6.362	6.362 (1.032)	130	539010			74.96- 134.96	107.87
6.362	6.362 (1.032)	97	323254			34.80- 94.80	64.69
114 1,2-Dichloropropane					CAS #: 78-87-5		
6.586	6.586 (1.068)	63	196889	41.3569	41.357	80.00- 120.00	100.00
6.586	6.586 (1.068)	62	133800			52.03- 112.03	67.96
6.586	6.586 (1.068)	41	184708			79.97- 139.97	93.81
116 Methyl Methacrylate					CAS #: 80-62-6		
6.664	6.664 (0.774)	69	425844	55.9518	55.952	80.00- 120.00	100.00
6.664	6.664 (0.774)	41	558314			134.02- 194.02	131.11
6.664	6.664 (0.774)	100	145601			9.54- 69.54	34.19
117 1,4-Dioxane					CAS #: 123-91-1		
6.700	6.700 (1.087)	88	247264	47.5260	47.526	80.00- 120.00	100.00
6.692	6.700 (1.085)	58	236421			55.80- 115.80	95.61
6.692	6.700 (1.085)	57	75860			8.68- 68.68	30.68
118 Dibromomethane					CAS #: 74-95-3		
6.714	6.721 (0.780)	174	457595	53.9861	53.986	80.00- 120.00	100.00
6.714	6.714 (0.780)	93	443814			67.27- 127.27	96.99

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
118 Dibromomethane (continued)							
6.714	6.714 (0.780)	95	364779			50.92- 110.92	79.72
122 Bromodichloromethane					CAS #: 75-27-4		
6.836	6.836 (1.109)	83	797828	46.2209	46.221	80.00- 120.00	100.00
6.836	6.836 (1.109)	85	511454			34.31- 94.31	64.11
126 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.208	7.208 (1.169)	75	586768	45.7357	45.736	80.00- 120.00	100.00
7.208	7.208 (1.169)	77	188541			1.42- 61.42	32.13
7.208	7.208 (1.169)	39	395756			38.56- 98.56	67.45
127 Methylcyclohexane					CAS #: 108-87-2		
6.460	6.460 (1.048)	83	607646	44.1022	44.102	80.00- 120.00	100.00
6.460	6.460 (1.048)	98	280447			15.60- 75.60	46.15
6.460	6.460 (1.048)	55	599241			78.53- 138.53	98.62
131 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.316	7.316 (1.186)	58	360912	41.3723	41.372	80.00- 120.00	100.00
7.316	7.316 (1.186)	43	923746			231.30- 291.30	255.95
7.316	7.316 (1.186)	85	139205			8.94- 68.94	38.57
137 Toluene					CAS #: 108-88-3		
7.437	7.437 (1.206)	91	1298284	47.1110	47.111	80.00- 120.00	100.00
7.437	7.437 (1.206)	92	744043			28.30- 88.30	57.31
136 Octane					CAS #: 111-65-9		
7.444	7.444 (1.207)	57	405263	44.2006	44.200	80.00- 120.00	100.00
7.444	7.444 (1.207)	85	399579			67.11- 127.11	98.60
7.444	7.444 (1.207)	43	929964			214.21- 274.21	229.47
139 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
7.688	7.688 (0.893)	75	565610	48.5601	48.560	80.00- 120.00	100.00
7.688	7.688 (0.893)	77	178976			2.15- 62.15	31.64
7.688	7.688 (0.893)	39	368047			36.09- 96.09	65.07
141 1,1,2-Trichloroethane					CAS #: 79-00-5		
7.846	7.846 (0.911)	97	436637	48.7441	48.744	80.00- 120.00	100.00
7.846	7.846 (0.911)	99	270523			31.62- 91.62	61.96
7.838	7.846 (0.910)	83	379096			56.35- 116.35	86.82
142 Tetrachloroethene					CAS #: 127-18-4		
7.874	7.881 (0.914)	166	641561	51.7836	51.784	80.00- 120.00	100.00
7.874	7.881 (0.914)	129	497951			48.71- 108.71	77.62
7.874	7.881 (0.914)	131	478296			46.55- 106.55	74.55

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
143 2-Hexanone					CAS #: 591-78-6		
8.003	8.003 (0.929)	58	481050	46.7527	46.753	80.00- 120.00	100.00
8.003	8.003 (0.929)	43	886515			157.91- 217.91	184.29
8.003	8.003 (0.929)	100	89868			0.00- 47.86	18.68
144 1,3-Dichloropropane					CAS #: 142-28-9		
7.989	7.989 (1.296)	76	572083	43.5102	43.510	80.00- 120.00	100.00
7.989	7.989 (1.296)	41	613833			82.96- 142.96	107.30
7.989	7.989 (1.296)	78	186482			2.55- 62.55	32.60
146 Dibromochloromethane					CAS #: 124-48-1		
8.154	8.154 (0.947)	129	892183	52.5002	52.500	80.00- 120.00	100.00
8.154	8.154 (0.947)	127	694303			47.77- 107.77	77.82
148 1,2-Dibromoethane (EDB)					CAS #: 106-93-4		
8.261	8.261 (0.959)	107	704080	50.6137	50.614	80.00- 120.00	100.00
8.261	8.261 (0.959)	109	666860			64.60- 124.60	94.71
151 1-Bromo-2-Chloroethane					CAS #: 107-04-0		
7.115	7.115 (1.154)	63	770363	46.2471	46.247	80.00- 120.00	100.00
7.115	7.115 (1.154)	65	237873			0.95- 60.95	30.88
7.115	7.115 (1.154)	144	84155			0.00- 40.45	10.92
154 Chlorobenzene					CAS #: 108-90-7		
8.641	8.641 (1.003)	112	1057734	48.9369	48.937	80.00- 120.00	100.00
8.641	8.641 (1.003)	114	341985			2.13- 62.13	32.33
8.641	8.641 (1.003)	77	564254			26.35- 86.35	53.35
155 Ethyl Benzene					CAS #: 100-41-4		
8.684	8.684 (1.008)	106	538438	49.8185	49.818	80.00- 120.00	100.00
8.684	8.684 (1.008)	91	1671275			282.48- 342.48	310.39
156 Nonane					CAS #: 111-84-2		
8.705	8.705 (1.011)	43	939545	44.8501	44.850	80.00- 120.00	100.00
8.705	8.705 (1.011)	57	881382			59.52- 119.52	93.81
8.705	8.705 (1.011)	85	307324			0.00- 59.76	32.71
157 1,1,1,2-Tetrachloroethane					CAS #: 630-20-6		
8.712	8.712 (1.012)	131	539443	45.3485	45.348	80.00- 120.00	100.00
8.712	8.712 (1.012)	117	361253			38.22- 98.22	66.97
8.705	8.712 (1.011)	95	200333			7.54- 67.54	37.14
158 m,p-Xylene					CAS #: 108-38-3		
8.784	8.784 (1.020)	106	669181	49.7679	49.768	80.00- 120.00	100.00
8.784	8.784 (1.020)	91	1327370			171.36- 231.36	198.36

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
164 o-Xylene					CAS #: 95-47-6		
9.121	9.121 (1.059)	106	644420	50.4841	50.484	80.00- 120.00	100.00
9.121	9.121 (1.059)	91	1350071			179.99- 239.99	209.50
165 Styrene					CAS #: 100-42-5		
9.142	9.149 (1.062)	104	1124874	50.8636	50.864	80.00- 120.00	100.00
9.142	9.149 (1.062)	78	538389			19.09- 79.09	47.86
167 Bromoform					CAS #: 75-25-2		
9.350	9.350 (1.086)	173	918553	57.0035	57.004	80.00- 120.00	100.00
9.350	9.350 (1.086)	171	475992			21.45- 81.45	51.82
168 Cumene					CAS #: 98-82-8		
9.407	9.407 (1.092)	105	2086554	51.7013	51.701	80.00- 120.00	100.00
9.414	9.407 (1.093)	120	565234			0.00- 56.99	27.09
9.407	9.407 (1.092)	51	242514			0.00- 41.77	11.62
169 Cyclohexanone					CAS #: 108-94-1		
9.579	9.579 (1.112)	55	570212	44.8968	44.897	80.00- 120.00	100.00
9.579	9.579 (1.112)	98	223631			9.22- 69.22	39.22
9.579	9.579 (1.112)	42	398673			42.60- 102.60	69.92
175 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
9.737	9.737 (1.131)	83	971862	48.5703	48.570	80.00- 120.00	100.00
9.737	9.737 (1.131)	85	628059			34.35- 94.35	64.62
177 Bromobenzene					CAS #: 108-86-1		
9.729	9.729 (1.130)	156	649418	51.7634	51.763	80.00- 120.00	100.00
9.729	9.729 (1.130)	158	629455			67.29- 127.29	96.93
9.729	9.729 (1.130)	77	986853			132.41- 192.41	151.96
178 Propylbenzene					CAS #: 103-65-1		
9.758	9.751 (1.133)	91	2361376	50.1460	50.146	80.00- 120.00	100.00
9.758	9.751 (1.133)	120	560189			0.00- 53.77	23.72
9.758	9.751 (1.133)	105	87747			0.00- 33.81	3.72
179 1,2,3-Trichloropropane					CAS #: 96-18-4		
9.787	9.787 (1.136)	110	302428	50.1750	50.175	80.00- 120.00	100.00
9.787	9.787 (1.136)	75	1001925			285.00- 345.00	331.29
9.787	9.787 (1.136)	61	258837			54.06- 114.06	85.59
181 trans-1,4-Dichloro-2-butene					CAS #: 110-57-6		
9.787	9.787 (1.136)	53	312102	65.4371	65.437	80.00- 120.00	100.00(R)
9.787	9.787 (1.136)	89	157208			21.19- 81.19	50.37
9.787	9.787 (1.136)	75	1001925			372.45- 432.45	321.02

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
182 Decane					CAS #: 124-18-5		
9.808	9.808 (1.139)	57	1116452	45.8522	45.852	80.00- 120.00	100.00
9.808	9.808 (1.139)	71	383991			4.13- 64.13	34.39
9.815	9.815 (1.140)	142	57079			0.00- 34.73	5.11
183 4-Ethyltoluene					CAS #: 622-96-8		
9.851	9.851 (1.144)	120	610065	49.9805	49.980	80.00- 120.00	100.00
9.851	9.851 (1.144)	105	1974261			296.79- 356.79	323.61
184 2-Chlorotoluene					CAS #: 95-49-8		
9.873	9.873 (1.146)	126	502939	50.7105	50.710	80.00- 120.00	100.00
9.873	9.873 (1.146)	91	1764818			336.29- 396.29	350.90
9.873	9.873 (1.146)	65	277212			38.83- 98.83	55.12
185 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
9.901	9.901 (1.150)	120	826307	48.1979	48.198	80.00- 120.00	100.00
9.901	9.901 (1.150)	105	1672968			176.40- 236.40	202.46
188 alpha Methyl Styrene					CAS #: 98-83-9		
10.102	10.102 (1.173)	118	804311	45.8080	45.808	80.00- 120.00	100.00
10.102	10.102 (1.173)	103	454435			26.64- 86.64	56.50
189 tert-Butylbenzene					CAS #: 98-06-6		
10.174	10.174 (1.181)	119	1561405	49.4994	49.499	80.00- 120.00	100.00
10.174	10.174 (1.181)	134	387353			0.00- 54.82	24.81
10.174	10.166 (1.181)	91	1006578			36.92- 96.92	64.47
190 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
10.224	10.224 (1.187)	105	1666734	49.3030	49.303	80.00- 120.00	100.00
10.224	10.224 (1.187)	120	786875			16.58- 76.58	47.21
192 sec-Butylbenzene					CAS #: 135-98-8		
10.360	10.353 (1.203)	134	512253	50.2770	50.277	80.00- 120.00	100.00
10.353	10.353 (1.202)	105	2436368			451.53- 511.53	475.62
10.353	10.353 (1.202)	91	378073			46.48- 106.48	73.81
194 p-Cymene					CAS #: 99-87-6		
10.467	10.467 (1.215)	119	2146538	50.3083	50.308	80.00- 120.00	100.00
10.467	10.467 (1.215)	134	574325			0.00- 56.79	26.76
10.467	10.467 (1.215)	91	495201			0.00- 54.04	23.07
195 1,3-Dichlorobenzene					CAS #: 541-73-1		
10.517	10.517 (1.221)	146	1187034	51.6829	51.683	80.00- 120.00	100.00
10.517	10.517 (1.221)	148	751005			33.53- 93.53	63.27
10.510	10.517 (1.220)	111	472393			11.05- 71.05	39.80

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
196 1,4-Dichlorobenzene					CAS #: 106-46-7		
10.596	10.596 (1.230)	146	1205553	50.9585	50.958	80.00- 120.00	100.00
10.596	10.596 (1.230)	148	759669			33.47- 93.47	63.01
10.596	10.596 (1.230)	111	456063			9.65- 69.65	37.83
199 alpha-Chlorotoluene					CAS #: 100-44-7		
10.711	10.711 (1.244)	91	1540055	47.3464	47.346	80.00- 120.00	100.00
10.711	10.711 (1.244)	126	346528			0.00- 52.04	22.50
201 Undecane					CAS #: 1120-21-4		
10.804	10.804 (1.254)	57	1276942	44.5043	44.504	80.00- 120.00	100.00
10.804	10.804 (1.254)	43	1082872			55.86- 115.86	84.80
202 Butylbenzene					CAS #: 104-51-8		
10.818	10.818 (1.256)	134	561578	50.7615	50.761	80.00- 120.00	100.00
10.818	10.818 (1.256)	91	2007843			331.99- 391.99	357.54
10.818	10.818 (1.256)	92	1037293			161.01- 221.01	184.71
204 1,2-Dichlorobenzene					CAS #: 95-50-1		
10.926	10.919 (1.269)	146	1124762	50.6777	50.678	80.00- 120.00	100.00
10.926	10.919 (1.269)	148	713853			33.23- 93.23	63.47
10.919	10.919 (1.268)	111	455177			12.36- 72.36	40.47
206 1,2-Dibromo-3-chloropropane					CAS #: 96-12-8		
11.606	11.606 (1.348)	157	641293	49.8317	49.832	80.00- 120.00	100.00
11.599	11.599 (1.347)	75	521566			58.96- 118.96	81.33
11.606	11.606 (1.348)	155	499598			47.82- 107.82	77.90
207 Dodecane					CAS #: 112-40-3		
11.714	11.714 (1.360)	57	1123935	46.3243	46.324	80.00- 120.00	100.00
11.714	11.714 (1.360)	43	882979			50.85- 110.85	78.56
213 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
12.301	12.301 (1.428)	180	957549	60.7422	60.742	80.00- 120.00	100.00
12.301	12.301 (1.428)	182	914704			65.40- 125.40	95.53
215 Hexachlorobutadiene					CAS #: 87-68-3		
12.387	12.387 (1.438)	225	739613	62.1108	62.111	80.00- 120.00	100.00
12.387	12.387 (1.438)	223	471933			33.70- 93.70	63.81
216 Naphthalene					CAS #: 91-20-3		
12.552	12.559 (1.457)	128	221220	4.59558	4.596	80.00- 120.00	100.00
12.552	12.559 (1.457)	127	29040			0.00- 43.10	13.13
222 1,2,3-Trichlorobenzene					CAS #: 87-61-6		
12.802	12.810 (1.487)	180	870027	60.3124	60.312	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
222 1,2,3-Trichlorobenzene (continued)							
12.802	12.810 (1.487)	182	836307			65.67- 125.67	96.12
12.802	12.810 (1.487)	145	308017			6.02- 66.02	35.40

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Report Date: 28-Jul-2021 12:17

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd3.i
Lab File ID: 3072603a.d
Lab Smp Id: LCS
Analysis Type: VOA
Quant Type: ISTD
Operator: LD
Method File: /chem/msd3.i/26JUL21.b/321q0622a.m
Misc Info: 50ppbv (100ppbv)

Calibration Date: 26-JUL-2021
Calibration Time: 10:10
Client Smp ID: LCS
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	263983	158390	369576	278488	5.49
108 1,4-Difluorobenze	833448	500069	1166827	900018	7.99
153 Chlorobenzene-d5	741338	444803	1037873	790831	6.68

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.28	4.95	5.61	5.28	0.00
108 1,4-Difluorobenze	6.17	5.84	6.50	6.17	0.00
153 Chlorobenzene-d5	8.61	8.28	8.94	8.61	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 28-Jul-2021 12:17

US32TAR1

RECOVERY REPORT

Client Name: Client SDG: 26JUL21
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: LCS Client Smp ID: LCS
Level: LOW Operator: LD
Data Type: MS DATA SampleType: LCS
SpikeList File: AT20sh.spk Quant Type: ISTD
Sublist File: AT20LCS_new.sub
Method File: /chem/msd3.i/26JUL21.b/321q0622a.m
Misc Info: 50ppbv (100ppbv)

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
5 Propylene	50.000	47.840	95.68	70-130
7 1,1-Difluoroethan	50.000	50.209	100.42	70-130
8 Freon 12	50.000	51.049	102.10	70-130
10 Freon 114	50.000	52.309	104.62	70-130
15 Chloromethane	50.000	55.712	111.42	70-130
18 Butane	50.000	50.789	101.58	70-130
19 Vinyl Chloride	50.000	51.728	103.46	70-130
20 1,3-Butadiene	50.000	49.065	98.13	70-130
24 Bromomethane	50.000	49.139	98.28	70-130
30 Chloroethane	50.000	49.372	98.74	70-130
31 Isopentane	50.000	47.239	94.48	70-130
32 Vinyl Bromide	50.000	48.849	97.70	70-130
33 Freon 11	50.000	52.750	105.50	70-130
34 Dichlorofluoromet	50.000	52.059	104.12	70-130
39 Ethanol	58.000	40.210	69.33*	70-130
43 Freon 113	50.000	50.128	100.26	70-130
44 1,1-Dichloroethen	50.000	46.713	93.43	70-130
47 Acetone	50.000	48.265	96.53	70-130
48 Carbon Disulfide	50.000	50.719	101.44	70-130
52 2-Propanol	50.000	49.132	98.26	70-130
54 3-Chloropropene	50.000	44.931	89.86	70-130
59 Methylene Chlorid	50.000	47.798	95.60	70-130
63 Methyl tert-butyl	50.000	46.029	92.06	70-130
64 trans-1,2-Dichlor	50.000	43.993	87.99	70-130
67 Hexane	50.000	45.972	91.94	70-130
71 1,1-Dichloroethan	50.000	45.818	91.64	70-130
73 Vinyl Acetate	50.000	46.096	92.19	70-130
85 cis-1,2-Dichloroe	50.000	45.306	90.61	70-130
86 2-Butanone	50.000	47.700	95.40	70-130
87 Ethyl Acetate	50.000	46.859	93.72	70-130
89 Tetrahydrofuran	50.000	44.320	88.64	70-130
92 Chloroform	50.000	47.612	95.22	70-130
94 Cyclohexane	50.000	42.370	84.74	70-130

	SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
96	1,1,1-Trichloroet	50.000	43.933	87.87	70-130
99	1,1-Dichloroprope	50.000	49.799	99.60	70-130
97	Carbon Tetrachlor	50.000	48.204	96.41	70-130
101	2,2,4-Trimethylpe	50.000	42.735	85.47	70-130
102	Benzene	50.000	49.968	99.94	70-130
106	1,2-Dichloroethan	50.000	51.567	103.13	70-130
107	Heptane	50.000	44.874	89.75	70-130
111	Trichloroethene	50.000	48.496	96.99	70-130
127	Methylcyclohexane	50.000	44.102	88.20	70-130
114	1,2-Dichloropropa	50.000	41.357	82.71	70-130
117	1,4-Dioxane	50.000	47.526	95.05	70-130
122	Bromodichlorometh	50.000	46.221	92.44	70-130
126	cis-1,3-Dichlorop	50.000	45.736	91.47	70-130
131	4-Methyl-2-pentan	50.000	41.372	82.74	70-130
136	Octane	50.000	44.200	88.40	70-130
137	Toluene	50.000	47.111	94.22	70-130
139	trans-1,3-Dichlor	50.000	48.560	97.12	70-130
141	1,1,2-Trichloroet	50.000	48.744	97.49	70-130
142	Tetrachloroethene	50.000	51.784	103.57	70-130
143	2-Hexanone	50.000	46.753	93.51	70-130
144	1,3-Dichloropropa	50.000	43.510	87.02	70-130
146	Dibromochlorometh	50.000	52.500	105.00	70-130
148	1,2-Dibromoethane	50.000	50.614	101.23	70-130
154	Chlorobenzene	50.000	48.937	97.87	70-130
155	Ethyl Benzene	50.000	49.818	99.64	70-130
156	Nonane	50.000	44.850	89.70	70-130
157	1,1,1,2-Tetrachlo	50.000	45.348	90.70	70-130
158	m,p-Xylene	50.000	49.768	99.54	70-130
164	o-Xylene	50.000	50.484	100.97	70-130
165	Styrene	50.000	50.864	101.73	70-130
167	Bromoform	50.000	57.004	114.01	70-130
168	Cumene	50.000	51.701	103.40	70-130
175	1,1,2,2-Tetrachlo	50.000	48.570	97.14	70-130
177	Bromobenzene	50.000	51.763	103.53	70-130
178	Propylbenzene	50.000	50.146	100.29	70-130
181	trans-1,4-Dichlor	50.000	65.437	130.87*	70-130
183	4-Ethyltoluene	50.000	49.980	99.96	70-130
185	1,3,5-Trimethylbe	50.000	48.198	96.40	70-130
188	alpha Methyl Styr	50.000	45.808	91.62	70-130
190	1,2,4-Trimethylbe	50.000	49.303	98.61	70-130
195	1,3-Dichlorobenze	50.000	51.683	103.37	70-130
196	1,4-Dichlorobenze	50.000	50.958	101.92	70-130
199	alpha-Chlorotolue	50.000	47.346	94.69	70-130
204	1,2-Dichlorobenze	50.000	50.678	101.36	70-130
213	1,2,4-Trichlorobe	58.000	60.742	104.73	70-130
215	Hexachlorobutadie	58.000	62.111	107.09	70-130
216	Naphthalene	5.800	4.596	79.23	60-140

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Y REPORT

Cient Name: Client SDG: 26JUL21
Smple Matrix: GAS Fraction: VOA
Lb Smp Id: LCS Client Smp ID: LCS
Lvel: LOW Operator: LD
Dta Type: MS DATA SampleType: LCS
SikeList File: AT20sh.sp Quant Type: ISTD
Sblist File: AT20LCS_new
Mthod File: /chem/msd3.iq0622a.m
Msc Info: 50ppbv (100ppb

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 104 1,2-Dichloroethan	25.000	23.728	94.91	70-130
$ 134 Toluene-d8	25.000	24.194	96.78	70-130
$ 170 4-Bromofluorobenz	25.000	26.289	105.16	70-130

Data File: /chem/msd3.i/26JUL21.b/3072603a.d

Page 1

Date : 26-JUL-2021 10:47

Client ID: LCS

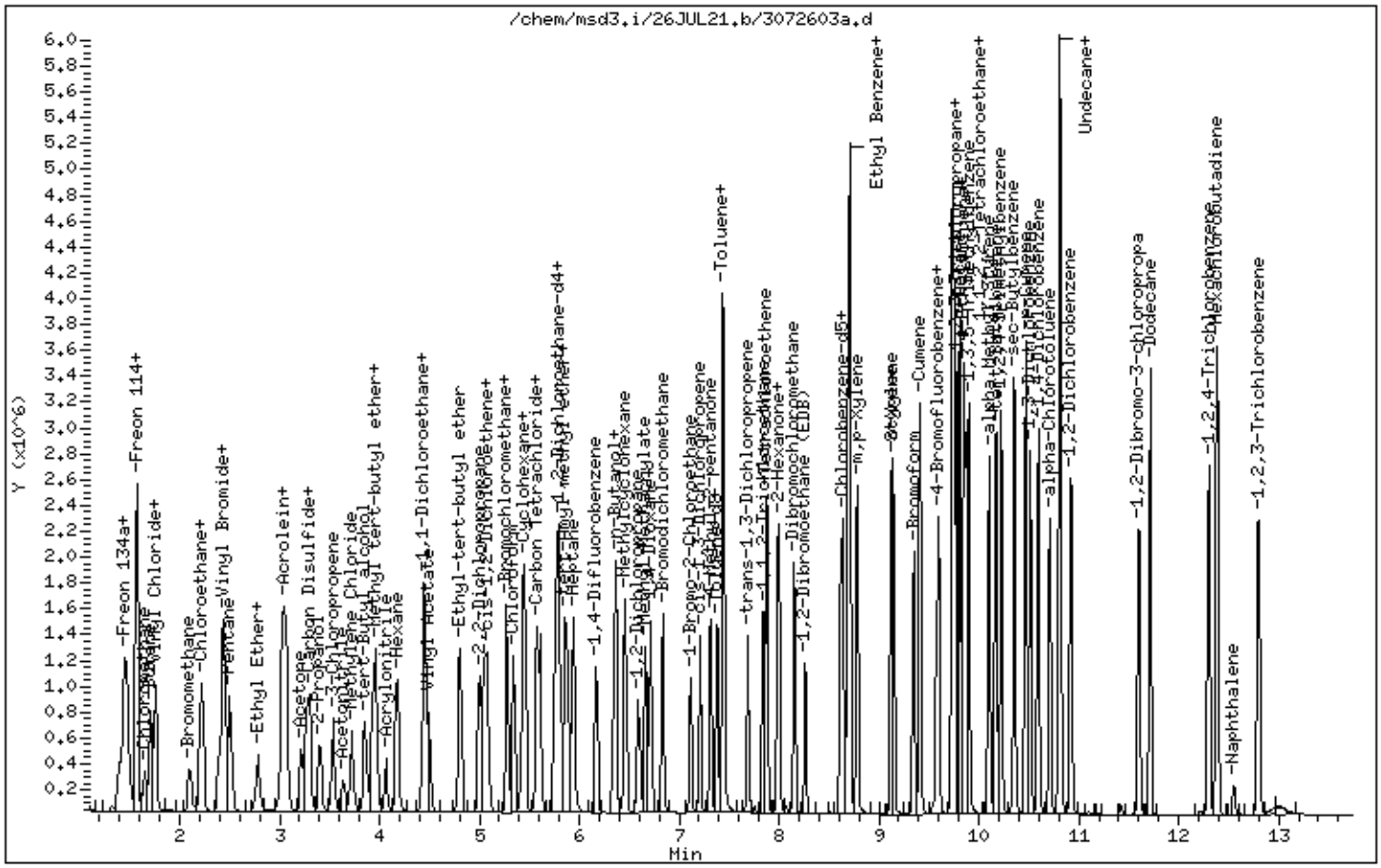
Instrument: msd3.i

Sample Info: 100mL 3018-2121A

Operator: LD

Column phase: RTX-624

Column diameter: 0.25



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Client Sample ID: LCSD

Lab ID#: 2107284-29AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3072606a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/26/21 12:20 PM**	

Compound	%Recovery	Method Limits
1,1,1-Trichloroethane	94	70-130
1,1,2,2-Tetrachloroethane	97	70-130
1,1,2-Trichloroethane	96	70-130
1,1-Dichloroethane	93	70-130
1,1-Dichloroethene	96	70-130
1,2,4-Trichlorobenzene	116	70-130
1,2,4-Trimethylbenzene	99	70-130
1,2-Dibromoethane (EDB)	100	70-130
1,2-Dichlorobenzene	103	70-130
1,2-Dichloroethane	101	70-130
1,2-Dichloropropane	74	70-130
1,3,5-Trimethylbenzene	97	70-130
1,3-Butadiene	102	70-130
1,3-Dichlorobenzene	103	70-130
1,4-Dichlorobenzene	102	70-130
1,4-Dioxane	94	70-130
2,2,4-Trimethylpentane	98	70-130
2-Butanone (Methyl Ethyl Ketone)	95	70-130
2-Hexanone	94	70-130
2-Propanol	101	70-130
3-Chloropropene	95	70-130
4-Ethyltoluene	100	70-130
4-Methyl-2-pentanone	79	70-130
Acetone	97	70-130
alpha-Chlorotoluene	94	70-130
Benzene	98	70-130
Bromodichloromethane	91	70-130
Bromoform	106	70-130
Bromomethane	103	70-130
Carbon Disulfide	104	70-130
Carbon Tetrachloride	106	70-130
Chlorobenzene	98	70-130
Chloroethane	100	70-130
Chloroform	96	70-130
Chloromethane	117	70-130
cis-1,2-Dichloroethene	90	70-130
cis-1,3-Dichloropropene	87	70-130
Cumene	96	70-130
Cyclohexane	91	70-130
Dibromochloromethane	104	70-130
Ethanol	71	70-130
Ethyl Benzene	99	70-130

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Client Sample ID: LCSD

Lab ID#: 2107284-29AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3072606a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/26/21 12:20 PM**	

Compound	%Recovery	Method Limits
Freon 11	110	70-130
Freon 12	105	70-130
Freon 113	104	70-130
Freon 114	107	70-130
Heptane	89	70-130
Hexachlorobutadiene	119	70-130
Hexane	94	70-130
m,p-Xylene	99	70-130
Methyl tert-butyl ether	96	70-130
Methylene Chloride	97	70-130
Naphthalene	89	60-140
o-Xylene	96	70-130
Propylbenzene	100	70-130
Propylene	96	70-130
Styrene	97	70-130
Tetrachloroethene	103	70-130
Tetrahydrofuran	84	70-130
Toluene	84	70-130
trans-1,2-Dichloroethene	91	70-130
trans-1,3-Dichloropropene	98	70-130
Trichloroethene	96	70-130
Vinyl Acetate	95	70-130
Vinyl Chloride	110	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	90	70-130
1,2-Dichloroethane-d4	107	70-130
4-Bromofluorobenzene	100	70-130

US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msd3.i/26JUL21.b/3072606a.d
Lab Smp Id: LCSD Client Smp ID: LCSD
Inj Date : 26-JUL-2021 12:20
Operator : LD Inst ID: msd3.i
Smp Info : 100mL 3018-2121A
Misc Info : 50ppbv (100ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msd3.i/26JUL21.b/321q0622a.m
Meth Date : 28-Jul-2021 12:16 uexa Quant Type: ISTD
Cal Date : 23-JUN-2021 00:09 Cal File: 3062223.d
Als bottle: 14 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT20LCS_new.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE		(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	=======	==========	=====
* 90 Bromochloromethane						CAS #: 74-97-5		
5.284	5.284 (1.000)	130	264503	25.0000			80.00- 120.00	100.00
5.284	5.284 (1.000)	128	208777				48.46- 108.46	78.93
5.270	5.284 (1.000)	49	364021				120.39- 180.39	137.62
* 108 1,4-Difluorobenzene						CAS #: 540-36-3		
6.180	6.166 (1.000)	114	983852	25.0000			80.00- 120.00	100.00
6.166	6.166 (1.000)	88	144782				0.00- 45.52	14.72
* 153 Chlorobenzene-d5						CAS #: 3114-55-4		
8.612	8.612 (1.000)	117	787648	25.0000			80.00- 120.00	100.00
8.612	8.612 (1.000)	82	419902				25.46- 85.46	53.31
$ 104 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
5.816	5.816 (1.101)	65	388196	26.6694	26.669		80.00- 120.00	100.00
5.816	5.816 (1.101)	67	203027				21.66- 81.66	52.30
$ 134 Toluene-d8						CAS #: 2037-26-5		
7.387	7.387 (1.195)	98	910591	22.4709	22.471		80.00- 120.00	100.00
7.387	7.387 (1.195)	70	101725				0.00- 41.47	11.17

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 134 Toluene-d8 (continued)							
7.387	7.387 (1.195)	100	600787			36.47- 96.47	65.98
$ 170 4-Bromofluorobenzene					CAS #: 460-00-4		
9.601	9.601 (1.115)	174	522284	25.0692	25.069	80.00- 120.00	100.00
9.601	9.601 (1.115)	95	590510			93.06- 153.06	113.06
9.601	9.601 (1.115)	176	480547			62.87- 122.87	92.01
4 Freon 134a					CAS #: 811-97-2		
1.395	1.395 (0.264)	83	365606	58.0904	58.090	80.00- 120.00	100.00
1.395	1.395 (0.264)	69	291944			51.82- 111.82	79.85
1.493	1.493 (0.282)	51	792464			194.91- 254.91	216.75
5 Propylene					CAS #: 115-07-1		
1.437	1.423 (0.272)	41	308456	48.2794	48.279	80.00- 120.00	100.00
1.437	1.423 (0.272)	42	205213			35.61- 95.61	66.53
1.437	1.423 (0.272)	39	235775			42.66- 102.66	76.44
7 1,1-Difluoroethane					CAS #: 75-37-6		
1.451	1.451 (0.275)	65	212516	51.0280	51.028	80.00- 120.00	100.00
1.493	1.493 (0.282)	51	792464			321.86- 381.86	372.90
1.451	1.451 (0.275)	47	168803			45.34- 105.34	79.43
8 Freon 12					CAS #: 75-71-8		
1.465	1.465 (0.277)	85	968426	52.5586	52.559	80.00- 120.00	100.00
1.465	1.465 (0.277)	87	312202			2.63- 62.63	32.24
9 Chlorodifluoromethane					CAS #: 75-45-6		
1.493	1.493 (0.282)	67	104524	51.6153	51.615	80.00- 120.00	100.00
1.493	1.493 (0.282)	51	792464			719.76- 779.76	758.16
10 Freon 114					CAS #: 76-14-2		
1.563	1.563 (0.296)	135	728021	53.3246	53.324	80.00- 120.00	100.00
1.563	1.563 (0.296)	137	235703			2.12- 62.12	32.38
12 Isobutane					CAS #: 75-28-5		
1.577	1.577 (0.298)	43	710699	49.4922	49.492	80.00- 120.00	100.00
1.577	1.577 (0.298)	42	232805			2.44- 62.44	32.76
1.577	1.577 (0.298)	58	24675			0.00- 33.26	3.47
15 Chloromethane					CAS #: 74-87-3		
1.647	1.646 (0.312)	50	447236	58.3992	58.399	80.00- 120.00	100.00
1.647	1.646 (0.312)	52	145401			2.41- 62.41	32.51
18 Butane					CAS #: 106-97-8		
1.702	1.702 (0.322)	58	96707	53.4712	53.471	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
18 Butane (continued)							
1.702	1.702 (0.322)	43	716989			727.41- 787.41	741.40
19 Vinyl Chloride					CAS #: 75-01-4		
1.744	1.744 (0.330)	62	451048	55.0387	55.039	80.00- 120.00	100.00
1.744	1.744 (0.330)	64	135095			1.28- 61.28	29.95
20 1,3-Butadiene					CAS #: 106-99-0		
1.758	1.758 (0.333)	54	383243	51.0275	51.027	80.00- 120.00	100.00
1.758	1.758 (0.333)	39	354423			69.23- 129.23	92.48
24 Bromomethane					CAS #: 74-83-9		
2.094	2.094 (0.396)	94	332826	51.3515	51.351	80.00- 120.00	100.00
2.094	2.094 (0.396)	96	305128			62.78- 122.78	91.68
30 Chloroethane					CAS #: 75-00-3		
2.206	2.206 (0.417)	64	192465	50.0308	50.031	80.00- 120.00	100.00
2.206	2.206 (0.417)	66	58128			1.44- 61.44	30.20
2.206	2.206 (0.417)	49	64042			4.12- 64.12	33.27
31 Isopentane					CAS #: 78-78-4		
2.220	2.220 (0.420)	43	471022	47.8809	47.881	80.00- 120.00	100.00
2.220	2.220 (0.420)	57	337429			38.82- 98.82	71.64
32 Vinyl Bromide					CAS #: 593-60-2		
2.388	2.388 (0.452)	106	352262	49.9886	49.989	80.00- 120.00	100.00
2.388	2.388 (0.452)	108	329712			63.14- 123.14	93.60
33 Freon 11					CAS #: 75-69-4		
2.430	2.430 (0.460)	101	1068279	54.7966	54.797	80.00- 120.00	100.00
2.430	2.430 (0.460)	103	691017			35.12- 95.12	64.69
34 Dichlorofluoromethane					CAS #: 75-43-4		
2.444	2.444 (0.463)	67	830477	53.2884	53.288	80.00- 120.00	100.00
2.444	2.444 (0.463)	69	255200			0.74- 60.74	30.73
35 Pentane					CAS #: 109-66-0		
2.500	2.500 (0.473)	43	723715	46.1765	46.176	80.00- 120.00	100.00
2.500	2.500 (0.473)	57	118653			0.00- 45.97	16.39
2.500	2.500 (0.473)	72	61785			0.00- 38.10	8.54
38 Ethyl Ether					CAS #: 60-29-7		
2.780	2.780 (0.526)	74	170216	48.4398	48.440	80.00- 120.00	100.00
2.780	2.780 (0.526)	59	300679			147.68- 207.68	176.65
2.780	2.780 (0.526)	45	386017			206.40- 266.40	226.78

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
39 Ethanol					CAS #: 64-17-5		
2.766	2.766 (0.523)	46	65352	41.4374	41.437	80.00- 120.00	100.00
2.780	2.766 (0.526)	45	386017			523.01- 583.01	590.67
42 Acrolein					CAS #: 107-02-8		
3.032	3.032 (0.574)	55	137334	52.4737	52.474	80.00- 120.00	100.00
3.032	3.032 (0.574)	56	194980			110.33- 170.33	141.98
43 Freon 113					CAS #: 76-13-1		
3.032	3.032 (0.574)	151	690409	51.8048	51.805	80.00- 120.00	100.00
3.032	3.032 (0.574)	153	436709			33.72- 93.72	63.25
3.032	3.032 (0.574)	101	831249			89.67- 149.67	120.40
44 1,1-Dichloroethene					CAS #: 75-35-4		
3.074	3.074 (0.582)	96	383414	47.7641	47.764	80.00- 120.00	100.00
3.074	3.074 (0.582)	98	246695			33.39- 93.39	64.34
3.074	3.074 (0.582)	61	757961			163.82- 223.82	197.69
47 Acetone					CAS #: 67-64-1		
3.214	3.214 (0.608)	58	214347	48.3291	48.329	80.00- 120.00	100.00
3.214	3.214 (0.608)	43	724531			299.66- 359.66	338.02
48 Carbon Disulfide					CAS #: 75-15-0		
3.298	3.298 (0.624)	76	1039962	52.0714	52.071	80.00- 120.00	100.00
49 Iodomethane					CAS #: 74-88-4		
3.270	3.270 (0.619)	142	1003225	58.0907	58.091	80.00- 120.00	100.00
3.270	3.270 (0.619)	127	468995			14.58- 74.58	46.75
52 2-Propanol					CAS #: 67-63-0		
3.410	3.395 (0.645)	45	806564	50.5668	50.567	80.00- 120.00	100.00
3.396	3.395 (0.643)	43	164770			0.00- 48.61	20.43
54 3-Chloropropene					CAS #: 107-05-1		
3.535	3.535 (0.669)	76	163987	47.6920	47.692	80.00- 120.00	100.00
3.535	3.535 (0.669)	41	554969			338.06- 398.06	338.42
57 Acetonitrile					CAS #: 75-05-8		
3.633	3.633 (0.688)	41	323471	46.3163	46.316	80.00- 120.00	100.00
3.633	3.633 (0.688)	40	169283			21.81- 81.81	52.33
3.633	3.633 (0.688)	38	39891			0.00- 41.86	12.33
59 Methylene Chloride					CAS #: 75-09-2		
3.717	3.717 (0.703)	49	514282	48.4510	48.451	80.00- 120.00	100.00
3.717	3.717 (0.703)	84	318032			30.77- 90.77	61.84
3.717	3.717 (0.703)	51	159661			1.39- 61.39	31.05

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
62 tert-Butyl alcohol					CAS #: 75-65-0		
3.857	3.857 (0.730)	59	929932	46.4487	46.449	80.00- 120.00	100.00
3.857	3.857 (0.730)	41	209911			0.00- 51.05	22.57
3.857	3.857 (0.730)	57	101942			0.00- 41.68	10.96
63 Methyl tert-butyl ether					CAS #: 1634-04-4		
3.941	3.941 (0.746)	73	1034016	47.8512	47.851	80.00- 120.00	100.00
3.941	3.941 (0.746)	57	301600			0.00- 58.86	29.17
3.941	3.941 (0.746)	41	282309			0.00- 57.27	27.30
64 trans-1,2-Dichloroethene					CAS #: 156-60-5		
3.969	3.969 (0.751)	98	245885	45.5174	45.517	80.00- 120.00	100.00
3.969	3.969 (0.751)	61	653540			244.59- 304.59	265.79
3.969	3.969 (0.751)	96	387148			129.84- 189.84	157.45
66 Acrylonitrile					CAS #: 107-13-1		
4.067	4.067 (0.770)	52	267884	41.3199	41.320	80.00- 120.00	100.00
4.067	4.067 (0.770)	53	317795			88.50- 148.50	118.63
67 Hexane					CAS #: 110-54-3		
4.179	4.179 (0.791)	57	686955	46.8998	46.900	80.00- 120.00	100.00
4.179	4.179 (0.791)	43	419023			32.99- 92.99	61.00
4.179	4.179 (0.791)	86	86851			0.00- 42.56	12.64
71 1,1-Dichloroethane					CAS #: 75-34-3		
4.459	4.459 (0.844)	63	703651	46.7128	46.713	80.00- 120.00	100.00
4.459	4.459 (0.844)	65	213418			0.76- 60.76	30.33
72 Isopropyl ether					CAS #: 108-20-3		
4.445	4.445 (0.841)	45	1381404	44.6890	44.689	80.00- 120.00	100.00
4.445	4.445 (0.841)	87	313350			0.00- 51.37	22.68
4.445	4.445 (0.841)	59	163818			0.00- 41.09	11.86
73 Vinyl Acetate					CAS #: 108-05-4		
4.501	4.501 (0.852)	86	87658	47.3326	47.333	80.00- 120.00	100.00
4.501	4.501 (0.852)	43	1205467			1391.63-1451.63	1375.19
79 Ethyl-tert-butyl ether					CAS #: 637-92-3		
4.809	4.809 (0.910)	59	1350101	45.2410	45.241	80.00- 120.00	100.00
4.809	4.809 (0.910)	87	453565			3.22- 63.22	33.59
4.809	4.809 (0.910)	41	259478			0.00- 48.12	19.22
84 2,2-Dichloropropane					CAS #: 594-20-7		
5.005	5.005 (0.947)	77	649266	46.2673	46.267	80.00- 120.00	100.00
5.005	5.005 (0.947)	79	206844			2.00- 62.00	31.86
5.005	5.005 (0.947)	97	152592			0.00- 53.36	23.50

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
85 cis-1,2-Dichloroethene					CAS #: 156-59-2		
5.047	5.046 (0.955)	98	241997	45.1911	45.191	80.00- 120.00	100.00
5.047	5.046 (0.955)	96	379879			127.22- 187.22	156.98
5.047	5.046 (0.955)	61	723991			283.85- 343.85	299.17
86 2-Butanone					CAS #: 78-93-3		
5.061	5.060 (0.958)	72	177268	47.3932	47.393	80.00- 120.00	100.00
5.075	5.060 (0.960)	43	1794296			1055.75-1115.75	1012.19
5.061	5.060 (0.958)	57	70607			10.59- 70.59	39.83
87 Ethyl Acetate					CAS #: 141-78-6		
5.089	5.088 (0.963)	45	143861	46.6544	46.654	80.00- 120.00	100.00
5.047	5.046 (0.955)	61	723991			450.31- 510.31	503.26
5.089	5.088 (0.963)	70	86131			30.42- 90.42	59.87
89 Tetrahydrofuran					CAS #: 109-99-9		
5.270	5.270 (0.997)	42	445782	42.2647	42.265	80.00- 120.00	100.00
5.270	5.270 (0.997)	71	159425			2.92- 62.92	35.76
5.270	5.270 (0.997)	72	160906			3.54- 63.54	36.10
92 Chloroform					CAS #: 67-66-3		
5.340	5.340 (1.011)	83	800004	48.2406	48.240	80.00- 120.00	100.00
5.340	5.340 (1.011)	85	518430			34.71- 94.71	64.80
94 Cyclohexane					CAS #: 110-82-7		
5.438	5.438 (1.029)	84	478762	45.6740	45.674	80.00- 120.00	100.00
5.438	5.438 (1.029)	56	708505			120.40- 180.40	147.99
5.438	5.438 (1.029)	41	390411			54.20- 114.20	81.55
96 1,1,1-Trichloroethane					CAS #: 71-55-6		
5.452	5.452 (1.032)	97	881313	47.2796	47.280	80.00- 120.00	100.00
5.466	5.452 (1.034)	99	557602			33.76- 93.76	63.27
97 Carbon Tetrachloride					CAS #: 56-23-5		
5.578	5.578 (1.056)	119	906795	52.8186	52.818	80.00- 120.00	100.00
5.578	5.578 (1.056)	117	943595			73.68- 133.68	104.06
99 1,1-Dichloropropene					CAS #: 563-58-6		
5.606	5.606 (0.907)	110	212718	47.5091	47.509	80.00- 120.00	100.00
5.606	5.606 (0.907)	75	556317			231.09- 291.09	261.53
101 2,2,4-Trimethylpentane					CAS #: 540-84-1		
5.774	5.774 (1.093)	57	2246136	49.0366	49.036	80.00- 120.00	100.00
5.774	5.774 (1.093)	56	701042			1.12- 61.12	31.21
5.774	5.774 (1.093)	41	615597			0.00- 57.49	27.41

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
102 Benzene					CAS #: 71-43-2		
5.788	5.788 (0.937)	78	1103579	49.1544	49.154	80.00- 120.00	100.00
5.788	5.788 (0.937)	77	259826			0.00- 53.80	23.54
105 tert-Amyl methyl ether					CAS #: 994-05-8		
5.858	5.858 (0.948)	87	282982	47.2712	47.271	80.00- 120.00	100.00
5.858	5.858 (0.948)	73	1123724			365.20- 425.20	397.10
5.858	5.858 (0.948)	55	356537			91.31- 151.31	125.99
106 1,2-Dichloroethane					CAS #: 107-06-2		
5.886	5.886 (0.952)	62	651702	50.4186	50.418	80.00- 120.00	100.00
5.886	5.886 (0.952)	64	201088			1.20- 61.20	30.86
107 Heptane					CAS #: 142-82-5		
5.942	5.942 (0.962)	71	394791	44.6440	44.644	80.00- 120.00	100.00
5.942	5.942 (0.962)	43	792154			179.02- 239.02	200.65
5.942	5.942 (0.962)	57	455756			84.85- 144.85	115.44
110 n-Butanol					CAS #: 71-36-3		
6.348	6.348 (1.027)	56	340801	47.3582	47.358	80.00- 120.00	100.00
6.348	6.348 (1.027)	41	232557			40.21- 100.21	68.24
6.348	6.348 (1.027)	43	181471			25.00- 85.00	53.25
111 Trichloroethene					CAS #: 79-01-6		
6.362	6.362 (1.029)	95	540872	48.0208	48.021	80.00- 120.00	100.00
6.362	6.362 (1.029)	130	581180			74.96- 134.96	107.45
6.362	6.362 (1.029)	97	345953			34.80- 94.80	63.96
114 1,2-Dichloropropane					CAS #: 78-87-5		
6.586	6.586 (1.066)	63	191722	36.8400	36.840	80.00- 120.00	100.00
6.586	6.586 (1.066)	62	130105			52.03- 112.03	67.86
6.586	6.586 (1.066)	41	191542			79.97- 139.97	99.91
116 Methyl Methacrylate					CAS #: 80-62-6		
6.664	6.664 (0.774)	69	489956	64.6357	64.636	80.00- 120.00	100.00
6.664	6.664 (0.774)	41	616020			134.02- 194.02	125.73
6.664	6.664 (0.774)	100	158613			9.54- 69.54	32.37
117 1,4-Dioxane					CAS #: 123-91-1		
6.700	6.700 (1.084)	88	268247	47.1657	47.166	80.00- 120.00	100.00
6.700	6.700 (1.084)	58	264196			55.80- 115.80	98.49
6.700	6.700 (1.084)	57	83716			8.68- 68.68	31.21
118 Dibromomethane					CAS #: 74-95-3		
6.721	6.721 (0.780)	174	491096	58.1727	58.173	80.00- 120.00	100.00
6.714	6.714 (0.780)	93	473643			67.27- 127.27	96.45

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
118 Dibromomethane (continued)							
6.714	6.714 (0.780)	95	396066			50.92- 110.92	80.65
122 Bromodichloromethane					CAS #: 75-27-4		
6.836	6.836 (1.106)	83	859996	45.5771	45.577	80.00- 120.00	100.00
6.836	6.836 (1.106)	85	551919			34.31- 94.31	64.18
126 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.208	7.208 (1.166)	75	612845	43.6980	43.698	80.00- 120.00	100.00
7.208	7.208 (1.166)	77	197448			1.42- 61.42	32.22
7.208	7.208 (1.166)	39	416289			38.56- 98.56	67.93
127 Methylcyclohexane					CAS #: 108-87-2		
6.460	6.460 (1.045)	83	658920	43.7486	43.748	80.00- 120.00	100.00
6.460	6.460 (1.045)	98	304868			15.60- 75.60	46.27
6.460	6.460 (1.045)	55	653916			78.53- 138.53	99.24
131 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.316	7.316 (1.184)	58	375061	39.3307	39.331	80.00- 120.00	100.00
7.316	7.316 (1.184)	43	961401			231.30- 291.30	256.33
7.316	7.316 (1.184)	85	144209			8.94- 68.94	38.45
137 Toluene					CAS #: 108-88-3		
7.437	7.437 (1.203)	91	1274017	42.2911	42.291	80.00- 120.00	100.00
7.437	7.437 (1.203)	92	723280			28.30- 88.30	56.77
136 Octane					CAS #: 111-65-9		
7.445	7.444 (1.205)	57	395597	39.4698	39.470	80.00- 120.00	100.00
7.445	7.444 (1.205)	85	396138			67.11- 127.11	100.14
7.445	7.444 (1.205)	43	906745			214.21- 274.21	229.21
139 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
7.688	7.688 (0.893)	75	566072	48.7961	48.796	80.00- 120.00	100.00
7.688	7.688 (0.893)	77	177342			2.15- 62.15	31.33
7.688	7.688 (0.893)	39	363206			36.09- 96.09	64.16
141 1,1,2-Trichloroethane					CAS #: 79-00-5		
7.846	7.846 (0.911)	97	430677	48.2731	48.273	80.00- 120.00	100.00
7.846	7.846 (0.911)	99	270773			31.62- 91.62	62.87
7.839	7.846 (0.910)	83	371808			56.35- 116.35	86.33
142 Tetrachloroethene					CAS #: 127-18-4		
7.881	7.881 (0.915)	166	633208	51.3159	51.316	80.00- 120.00	100.00
7.881	7.881 (0.915)	129	488944			48.71- 108.71	77.22
7.881	7.881 (0.915)	131	477127			46.55- 106.55	75.35

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
143 2-Hexanone					CAS #: 591-78-6		
8.003	8.003 (0.929)	58	480955	46.9324	46.932	80.00- 120.00	100.00
8.003	8.003 (0.929)	43	874949			157.91- 217.91	181.92
8.003	8.003 (0.929)	100	89274			0.00- 47.86	18.56
144 1,3-Dichloropropane					CAS #: 142-28-9		
7.989	7.989 (1.293)	76	573763	39.9196	39.920	80.00- 120.00	100.00
7.989	7.989 (1.293)	41	599930			82.96- 142.96	104.56
7.989	7.989 (1.293)	78	187422			2.55- 62.55	32.67
146 Dibromochloromethane					CAS #: 124-48-1		
8.154	8.154 (0.947)	129	879885	51.9858	51.986	80.00- 120.00	100.00
8.154	8.154 (0.947)	127	688043			47.77- 107.77	78.20
148 1,2-Dibromoethane (EDB)					CAS #: 106-93-4		
8.261	8.261 (0.959)	107	696061	50.2394	50.239	80.00- 120.00	100.00
8.261	8.261 (0.959)	109	657345			64.60- 124.60	94.44
151 1-Bromo-2-Chloroethane					CAS #: 107-04-0		
7.115	7.115 (1.151)	63	833135	45.7536	45.754	80.00- 120.00	100.00
7.115	7.115 (1.151)	65	251681			0.95- 60.95	30.21
7.115	7.115 (1.151)	144	90011			0.00- 40.45	10.80
154 Chlorobenzene					CAS #: 108-90-7		
8.641	8.641 (1.003)	112	1057823	49.1388	49.139	80.00- 120.00	100.00
8.641	8.641 (1.003)	114	343192			2.13- 62.13	32.44
8.641	8.641 (1.003)	77	551891			26.35- 86.35	52.17
155 Ethyl Benzene					CAS #: 100-41-4		
8.684	8.684 (1.008)	106	531090	49.3372	49.337	80.00- 120.00	100.00
8.684	8.684 (1.008)	91	1663598			282.48- 342.48	313.24
156 Nonane					CAS #: 111-84-2		
8.705	8.705 (1.011)	43	911996	43.7109	43.711	80.00- 120.00	100.00
8.705	8.705 (1.011)	57	853008			59.52- 119.52	93.53
8.705	8.705 (1.011)	85	295668			0.00- 59.76	32.42
157 1,1,1,2-Tetrachloroethane					CAS #: 630-20-6		
8.712	8.712 (1.012)	131	531351	44.8488	44.849	80.00- 120.00	100.00
8.712	8.712 (1.012)	117	360480			38.22- 98.22	67.84
8.712	8.712 (1.012)	95	197184			7.54- 67.54	37.11
158 m,p-Xylene					CAS #: 108-38-3		
8.784	8.784 (1.020)	106	662161	49.4449	49.445	80.00- 120.00	100.00
8.784	8.784 (1.020)	91	1320955			171.36- 231.36	199.49

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
164 o-Xylene					CAS #: 95-47-6		
9.121	9.121 (1.059)	106	609912	47.9738	47.974	80.00- 120.00	100.00
9.121	9.121 (1.059)	91	1273735			179.99- 239.99	208.84
165 Styrene					CAS #: 100-42-5		
9.142	9.149 (1.062)	104	1067885	48.4819	48.482	80.00- 120.00	100.00
9.142	9.149 (1.062)	78	501865			19.09- 79.09	47.00
167 Bromoform					CAS #: 75-25-2		
9.350	9.350 (1.086)	173	849507	52.9317	52.932	80.00- 120.00	100.00
9.350	9.350 (1.086)	171	436292			21.45- 81.45	51.36
168 Cumene					CAS #: 98-82-8		
9.407	9.407 (1.092)	105	1931450	48.0515	48.051	80.00- 120.00	100.00
9.407	9.407 (1.092)	120	525825			0.00- 56.99	27.22
9.407	9.407 (1.092)	51	220091			0.00- 41.77	11.40
169 Cyclohexanone					CAS #: 108-94-1		
9.579	9.579 (1.112)	55	530026	41.9013	41.901	80.00- 120.00	100.00
9.579	9.579 (1.112)	98	214945			9.22- 69.22	40.55
9.579	9.579 (1.112)	42	372079			42.60- 102.60	70.20
175 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
9.737	9.737 (1.131)	83	968237	48.5847	48.585	80.00- 120.00	100.00
9.737	9.737 (1.131)	85	625201			34.35- 94.35	64.57
177 Bromobenzene					CAS #: 108-86-1		
9.730	9.729 (1.130)	156	642729	51.4373	51.437	80.00- 120.00	100.00
9.730	9.729 (1.130)	158	627437			67.29- 127.29	97.62
9.730	9.729 (1.130)	77	976466			132.41- 192.41	151.92
178 Propylbenzene					CAS #: 103-65-1		
9.758	9.751 (1.133)	91	2352775	50.1652	50.165	80.00- 120.00	100.00
9.758	9.751 (1.133)	120	561216			0.00- 53.77	23.85
9.758	9.751 (1.133)	105	88233			0.00- 33.81	3.75
179 1,2,3-Trichloropropane					CAS #: 96-18-4		
9.787	9.787 (1.136)	110	301625	50.2441	50.244	80.00- 120.00	100.00
9.787	9.787 (1.136)	75	999914			285.00- 345.00	331.51
9.787	9.787 (1.136)	61	252539			54.06- 114.06	83.73
181 trans-1,4-Dichloro-2-butene					CAS #: 110-57-6		
9.787	9.787 (1.136)	53	306673	64.5587	64.559	80.00- 120.00	100.00
9.787	9.787 (1.136)	89	160428			21.19- 81.19	52.31
9.787	9.787 (1.136)	75	999914			372.45- 432.45	326.05

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
182 Decane					CAS #: 124-18-5		
9.808	9.808 (1.139)	57	1104027	45.5252	45.525	80.00- 120.00	100.00
9.808	9.808 (1.139)	71	384837			4.13- 64.13	34.86
9.808	9.815 (1.139)	142	57132			0.00- 34.73	5.17
183 4-Ethyltoluene					CAS #: 622-96-8		
9.851	9.851 (1.144)	120	609601	50.1444	50.144	80.00- 120.00	100.00
9.851	9.851 (1.144)	105	1965716			296.79- 356.79	322.46
184 2-Chlorotoluene					CAS #: 95-49-8		
9.873	9.873 (1.146)	126	501574	50.7772	50.777	80.00- 120.00	100.00
9.873	9.873 (1.146)	91	1753312			336.29- 396.29	349.56
9.873	9.873 (1.146)	65	325796			38.83- 98.83	64.95
185 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
9.901	9.901 (1.150)	120	829269	48.5662	48.566	80.00- 120.00	100.00
9.901	9.901 (1.150)	105	1681234			176.40- 236.40	202.74
188 alpha Methyl Styrene					CAS #: 98-83-9		
10.102	10.102 (1.173)	118	808031	46.2058	46.206	80.00- 120.00	100.00
10.102	10.102 (1.173)	103	449650			26.64- 86.64	55.65
189 tert-Butylbenzene					CAS #: 98-06-6		
10.174	10.174 (1.181)	119	1558426	49.6047	49.605	80.00- 120.00	100.00
10.174	10.174 (1.181)	134	393750			0.00- 54.82	25.27
10.174	10.166 (1.181)	91	1008351			36.92- 96.92	64.70
190 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
10.224	10.224 (1.187)	105	1660312	49.3116	49.312	80.00- 120.00	100.00
10.224	10.224 (1.187)	120	791844			16.58- 76.58	47.69
192 sec-Butylbenzene					CAS #: 135-98-8		
10.353	10.353 (1.202)	134	515786	50.8284	50.828	80.00- 120.00	100.00
10.353	10.353 (1.202)	105	2407222			451.53- 511.53	466.71
10.353	10.353 (1.202)	91	379702			46.48- 106.48	73.62
194 p-Cymene					CAS #: 99-87-6		
10.467	10.467 (1.215)	119	2133234	50.1985	50.198	80.00- 120.00	100.00
10.467	10.467 (1.215)	134	579306			0.00- 56.79	27.16
10.467	10.467 (1.215)	91	495121			0.00- 54.04	23.21
195 1,3-Dichlorobenzene					CAS #: 541-73-1		
10.518	10.517 (1.221)	146	1182773	51.7055	51.706	80.00- 120.00	100.00
10.518	10.517 (1.221)	148	751952			33.53- 93.53	63.58
10.510	10.517 (1.220)	111	462763			11.05- 71.05	39.13

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
196 1,4-Dichlorobenzene					CAS #: 106-46-7		
10.596	10.596 (1.230)	146	1203978	51.0976	51.098	80.00- 120.00	100.00
10.596	10.596 (1.230)	148	765455			33.47- 93.47	63.58
10.596	10.596 (1.230)	111	456680			9.65- 69.65	37.93
199 alpha-Chlorotoluene					CAS #: 100-44-7		
10.711	10.711 (1.244)	91	1532081	47.2916	47.292	80.00- 120.00	100.00
10.711	10.711 (1.244)	126	345449			0.00- 52.04	22.55
201 Undecane					CAS #: 1120-21-4		
10.804	10.804 (1.254)	57	1321109	46.2297	46.230	80.00- 120.00	100.00
10.804	10.804 (1.254)	43	1112824			55.86- 115.86	84.23
202 Butylbenzene					CAS #: 104-51-8		
10.818	10.818 (1.256)	134	562321	51.0340	51.034	80.00- 120.00	100.00
10.818	10.818 (1.256)	91	2001577			331.99- 391.99	355.95
10.818	10.818 (1.256)	92	1036492			161.01- 221.01	184.32
204 1,2-Dichlorobenzene					CAS #: 95-50-1		
10.926	10.919 (1.269)	146	1135345	51.3613	51.361	80.00- 120.00	100.00
10.926	10.919 (1.269)	148	713967			33.23- 93.23	62.89
10.919	10.919 (1.268)	111	459280			12.36- 72.36	40.45
206 1,2-Dibromo-3-chloropropane					CAS #: 96-12-8		
11.606	11.606 (1.348)	157	659606	51.4618	51.462	80.00- 120.00	100.00
11.606	11.599 (1.348)	75	532543			58.96- 118.96	80.74
11.606	11.606 (1.348)	155	512067			47.82- 107.82	77.63
207 Dodecane					CAS #: 112-40-3		
11.714	11.714 (1.360)	57	1362590	56.3877	56.388	80.00- 120.00	100.00
11.714	11.714 (1.360)	43	1064149			50.85- 110.85	78.10
213 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
12.301	12.301 (1.428)	180	1057647	67.3631	67.363	80.00- 120.00	100.00
12.301	12.301 (1.428)	182	1004498			65.40- 125.40	94.97
215 Hexachlorobutadiene					CAS #: 87-68-3		
12.387	12.387 (1.438)	225	820721	69.2006	69.200	80.00- 120.00	100.00
12.387	12.387 (1.438)	223	522391			33.70- 93.70	63.65
216 Naphthalene					CAS #: 91-20-3		
12.559	12.559 (1.458)	128	246801	5.14771	5.148	80.00- 120.00	100.00
12.559	12.559 (1.458)	127	33381			0.00- 43.10	13.53
222 1,2,3-Trichlorobenzene					CAS #: 87-61-6		
12.810	12.810 (1.487)	180	1006841	70.0788	70.079	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
222 1,2,3-Trichlorobenzene (continued)							
12.810	12.810 (1.487)	182	959871			65.67- 125.67	95.33
12.803	12.810 (1.487)	145	351695			6.02- 66.02	34.93

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd3.i
Lab File ID: 3072606a.d
Lab Smp Id: LCSD
Analysis Type: VOA
Quant Type: ISTD
Operator: LD
Method File: /chem/msd3.i/26JUL21.b/321q0622a.m
Misc Info: 50ppbv (100ppbv)

Calibration Date: 26-JUL-2021
Calibration Time: 10:10
Client Smp ID: LCSD
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	263983	158390	369576	264503	0.20
108 1,4-Difluorobenze	833448	500069	1166827	983852	18.05
153 Chlorobenzene-d5	741338	444803	1037873	787648	6.25

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.28	4.95	5.61	5.28	0.00
108 1,4-Difluorobenze	6.17	5.84	6.50	6.18	0.23
153 Chlorobenzene-d5	8.61	8.28	8.94	8.61	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

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RECOVERY REPORT

Client Name: Client SDG: 26JUL21
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: LCSD Client Smp ID: LCSD
Level: LOW Operator: LD
Data Type: MS DATA SampleType: LCSD
SpikeList File: AT20sh.spk Quant Type: ISTD
Sublist File: AT20LCS_new.sub
Method File: /chem/msd3.i/26JUL21.b/321q0622a.m
Misc Info: 50ppbv (100ppbv)

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
5 Propylene	50.000	48.279	96.56	70-130
7 1,1-Difluoroethan	50.000	51.028	102.06	70-130
8 Freon 12	50.000	52.559	105.12	70-130
10 Freon 114	50.000	53.324	106.65	70-130
15 Chloromethane	50.000	58.399	116.80	70-130
18 Butane	50.000	53.471	106.94	70-130
19 Vinyl Chloride	50.000	55.039	110.08	70-130
20 1,3-Butadiene	50.000	51.027	102.05	70-130
24 Bromomethane	50.000	51.351	102.70	70-130
30 Chloroethane	50.000	50.031	100.06	70-130
31 Isopentane	50.000	47.881	95.76	70-130
32 Vinyl Bromide	50.000	49.989	99.98	70-130
33 Freon 11	50.000	54.797	109.59	70-130
34 Dichlorofluoromet	50.000	53.288	106.58	70-130
39 Ethanol	58.000	41.437	71.44	70-130
43 Freon 113	50.000	51.805	103.61	70-130
44 1,1-Dichloroethen	50.000	47.764	95.53	70-130
47 Acetone	50.000	48.329	96.66	70-130
48 Carbon Disulfide	50.000	52.071	104.14	70-130
52 2-Propanol	50.000	50.567	101.13	70-130
54 3-Chloropropene	50.000	47.692	95.38	70-130
59 Methylene Chlorid	50.000	48.451	96.90	70-130
63 Methyl tert-butyl	50.000	47.851	95.70	70-130
64 trans-1,2-Dichlor	50.000	45.517	91.03	70-130
67 Hexane	50.000	46.900	93.80	70-130
71 1,1-Dichloroethan	50.000	46.713	93.43	70-130
73 Vinyl Acetate	50.000	47.333	94.67	70-130
85 cis-1,2-Dichloroe	50.000	45.191	90.38	70-130
86 2-Butanone	50.000	47.393	94.79	70-130
87 Ethyl Acetate	50.000	46.654	93.31	70-130
89 Tetrahydrofuran	50.000	42.265	84.53	70-130
92 Chloroform	50.000	48.240	96.48	70-130
94 Cyclohexane	50.000	45.674	91.35	70-130

SPIKE	COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
96	1,1,1-Trichloroet	50.000	47.280	94.56	70-130
99	1,1-Dichloroprope	50.000	47.509	95.02	70-130
97	Carbon Tetrachlor	50.000	52.818	105.64	70-130
101	2,2,4-Trimethylpe	50.000	49.036	98.07	70-130
102	Benzene	50.000	49.154	98.31	70-130
106	1,2-Dichloroethan	50.000	50.418	100.84	70-130
107	Heptane	50.000	44.644	89.29	70-130
111	Trichloroethene	50.000	48.021	96.04	70-130
127	Methylcyclohexane	50.000	43.748	87.50	70-130
114	1,2-Dichloropropa	50.000	36.840	73.68	70-130
117	1,4-Dioxane	50.000	47.166	94.33	70-130
122	Bromodichlorometh	50.000	45.577	91.15	70-130
126	cis-1,3-Dichlorop	50.000	43.698	87.40	70-130
131	4-Methyl-2-pentan	50.000	39.331	78.66	70-130
136	Octane	50.000	39.470	78.94	70-130
137	Toluene	50.000	42.291	84.58	70-130
139	trans-1,3-Dichlor	50.000	48.796	97.59	70-130
141	1,1,2-Trichloroet	50.000	48.273	96.55	70-130
142	Tetrachloroethene	50.000	51.316	102.63	70-130
143	2-Hexanone	50.000	46.932	93.86	70-130
144	1,3-Dichloropropa	50.000	39.920	79.84	70-130
146	Dibromochlorometh	50.000	51.986	103.97	70-130
148	1,2-Dibromoethane	50.000	50.239	100.48	70-130
154	Chlorobenzene	50.000	49.139	98.28	70-130
155	Ethyl Benzene	50.000	49.337	98.67	70-130
156	Nonane	50.000	43.711	87.42	70-130
157	1,1,1,2-Tetrachlo	50.000	44.849	89.70	70-130
158	m,p-Xylene	50.000	49.445	98.89	70-130
164	o-Xylene	50.000	47.974	95.95	70-130
165	Styrene	50.000	48.482	96.96	70-130
167	Bromoform	50.000	52.932	105.86	70-130
168	Cumene	50.000	48.051	96.10	70-130
175	1,1,2,2-Tetrachlo	50.000	48.585	97.17	70-130
177	Bromobenzene	50.000	51.437	102.87	70-130
178	Propylbenzene	50.000	50.165	100.33	70-130
181	trans-1,4-Dichlor	50.000	64.559	129.12	70-130
183	4-Ethyltoluene	50.000	50.144	100.29	70-130
185	1,3,5-Trimethylbe	50.000	48.566	97.13	70-130
188	alpha Methyl Styr	50.000	46.206	92.41	70-130
190	1,2,4-Trimethylbe	50.000	49.312	98.62	70-130
195	1,3-Dichlorobenze	50.000	51.706	103.41	70-130
196	1,4-Dichlorobenze	50.000	51.098	102.20	70-130
199	alpha-Chlorotolue	50.000	47.292	94.58	70-130
204	1,2-Dichlorobenze	50.000	51.361	102.72	70-130
213	1,2,4-Trichlorobe	58.000	67.363	116.14	70-130
215	Hexachlorobutadie	58.000	69.200	119.31	70-130
216	Naphthalene	5.800	5.148	88.75	60-140

2TAR1

Y REPORT

Cient Name: Client SDG: 26JUL21
Smple Matrix: GAS Fraction: VOA
Lb Smp Id: LCSD Client Smp ID: LCSD
Lvel: LOW Operator: LD
Dta Type: MS DATA SampleType: LCSD
SikeList File: AT20sh.sp Quant Type: ISTD
Sblist File: AT20LCS_new
Mthod File: /chem/msd3.iq0622a.m
Msc Info: 50ppbv (100ppb

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 104 1,2-Dichloroethan	25.000	26.669	106.68	70-130
$ 134 Toluene-d8	25.000	22.471	89.88	70-130
$ 170 4-Bromofluorobenz	25.000	25.069	100.28	70-130

Data File: /chem/msd3.i/26JUL21.b/3072606a.d

Page 1

Date : 26-JUL-2021 12:20

Client ID: LCSD

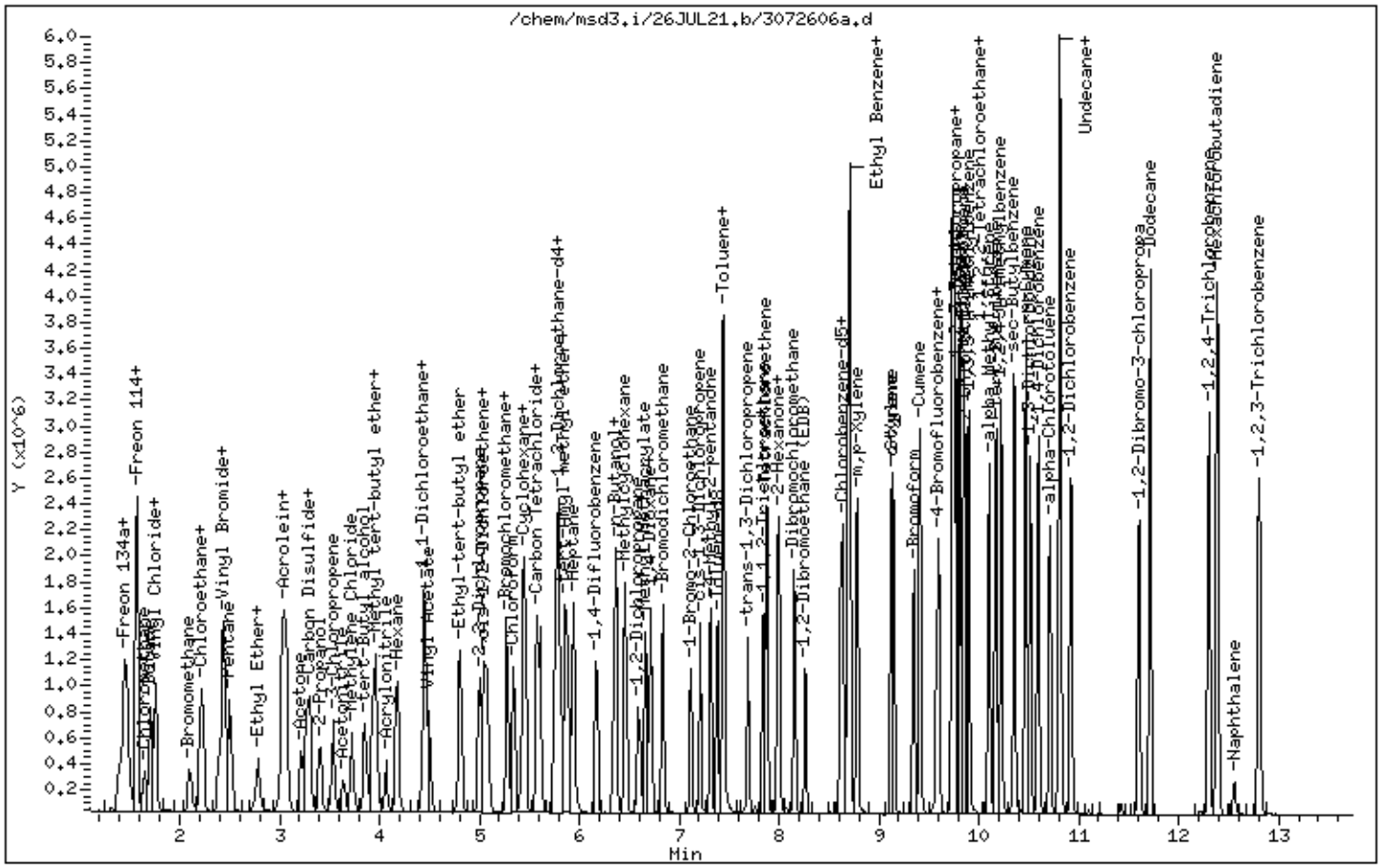
Instrument: msd3.i

Sample Info: 100mL 3018-2121A

Operator: LD

Column phase: RTX-624

Column diameter: 0.25



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Client Sample ID: LCS

Lab ID#: 2107284-29B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3072704a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/27/21 12:13 PM**	

Compound	%Recovery	Method Limits
1,1,1-Trichloroethane	90	70-130
1,1,2,2-Tetrachloroethane	99	70-130
1,1,2-Trichloroethane	97	70-130
1,1-Dichloroethane	92	70-130
1,1-Dichloroethene	93	70-130
1,2,4-Trichlorobenzene	101	70-130
1,2,4-Trimethylbenzene	104	70-130
1,2-Dibromoethane (EDB)	100	70-130
1,2-Dichlorobenzene	107	70-130
1,2-Dichloroethane	101	70-130
1,2-Dichloropropane	84	70-130
1,3,5-Trimethylbenzene	100	70-130
1,3-Butadiene	92	70-130
1,3-Dichlorobenzene	107	70-130
1,4-Dichlorobenzene	104	70-130
1,4-Dioxane	90	70-130
2,2,4-Trimethylpentane	93	70-130
2-Butanone (Methyl Ethyl Ketone)	94	70-130
2-Hexanone	92	70-130
2-Propanol	98	70-130
3-Chloropropene	93	70-130
4-Ethyltoluene	100	70-130
4-Methyl-2-pentanone	78	70-130
Acetone	96	70-130
alpha-Chlorotoluene	96	70-130
Benzene	103	70-130
Bromodichloromethane	88	70-130
Bromoform	104	70-130
Bromomethane	100	70-130
Carbon Disulfide	103	70-130
Carbon Tetrachloride	98	70-130
Chlorobenzene	97	70-130
Chloroethane	100	70-130
Chloroform	94	70-130
Chloromethane	113	70-130
cis-1,2-Dichloroethene	89	70-130
cis-1,3-Dichloropropene	86	70-130
Cumene	95	70-130
Cyclohexane	86	70-130
Dibromochloromethane	104	70-130
Ethanol	71	70-130
Ethyl Benzene	98	70-130

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Client Sample ID: LCS

Lab ID#: 2107284-29B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3072704a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/27/21 12:13 PM**	

Compound	%Recovery	Method Limits
Freon 11	106	70-130
Freon 12	100	70-130
Freon 113	101	70-130
Freon 114	105	70-130
Heptane	88	70-130
Hexachlorobutadiene	105	70-130
Hexane	91	70-130
m,p-Xylene	98	70-130
Methyl tert-butyl ether	91	70-130
Methylene Chloride	96	70-130
Naphthalene	78	60-140
o-Xylene	95	70-130
Propylbenzene	102	70-130
Propylene	94	70-130
Styrene	95	70-130
Tetrachloroethene	102	70-130
Tetrahydrofuran	88	70-130
Toluene	89	70-130
trans-1,2-Dichloroethene	88	70-130
trans-1,3-Dichloropropene	95	70-130
Trichloroethene	92	70-130
Vinyl Acetate	93	70-130
Vinyl Chloride	104	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	92	70-130
1,2-Dichloroethane-d4	100	70-130
4-Bromofluorobenzene	101	70-130

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EPA TO-15/MODIFIED TO14A

Data file : /chem/msd3.i/27JUL21.b/3072704a.d
Lab Smp Id: LCS Client Smp ID: LCS
Inj Date : 27-JUL-2021 12:13
Operator : LD Inst ID: msd3.i
Smp Info : 100mL 3018-2121A
Misc Info : 50ppbv (100ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msd3.i/27JUL21.b/321q0622a.m
Meth Date : 27-Jul-2021 15:31 lk8g Quant Type: ISTD
Cal Date : 23-JUN-2021 00:09 Cal File: 3062223.d
Als bottle: 14 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT20LCS_new.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE		(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 90 Bromochloromethane							CAS #: 74-97-5	
5.284	5.284 (1.000)	130	250619	25.0000			80.00- 120.00	100.00
5.284	5.284 (1.000)	128	195621				48.46- 108.46	78.06
5.270	5.270 (1.000)	49	359605				120.39- 180.39	143.49
* 108 1,4-Difluorobenzene							CAS #: 540-36-3	
6.180	6.180 (1.000)	114	851577	25.0000			80.00- 120.00	100.00
6.180	6.180 (1.000)	88	126178				0.00- 45.52	14.82
* 153 Chlorobenzene-d5							CAS #: 3114-55-4	
8.619	8.612 (1.000)	117	720138	25.0000			80.00- 120.00	100.00
8.612	8.612 (1.000)	82	379169				25.46- 85.46	52.65
$ 104 1,2-Dichloroethane-d4							CAS #: 17060-07-0	
5.816	5.816 (1.101)	65	345267	25.0342	25.034		80.00- 120.00	100.00
5.816	5.816 (1.101)	67	181038				21.66- 81.66	52.43
$ 134 Toluene-d8							CAS #: 2037-26-5	
7.387	7.387 (1.195)	98	809153	23.0692	23.069		80.00- 120.00	100.00
7.387	7.387 (1.195)	70	87521				0.00- 41.47	10.82

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 134 Toluene-d8 (continued)							
7.387	7.387 (1.195)	100	528003			36.47- 96.47	65.25
$ 170 4-Bromofluorobenzene					CAS #: 460-00-4		
9.601	9.601 (1.114)	174	479657	25.1815	25.182	80.00- 120.00	100.00
9.601	9.601 (1.114)	95	546665			93.06- 153.06	113.97
9.601	9.601 (1.114)	176	445781			62.87- 122.87	92.94
4 Freon 134a					CAS #: 811-97-2		
1.395	1.395 (0.264)	83	333763	55.9688	55.969	80.00- 120.00	100.00
1.395	1.395 (0.264)	69	271190			51.82- 111.82	81.25
1.493	1.479 (0.282)	51	761789			194.91- 254.91	228.24
5 Propylene					CAS #: 115-07-1		
1.423	1.423 (0.269)	41	284461	46.9903	46.990	80.00- 120.00	100.00
1.423	1.423 (0.269)	42	195283			35.61- 95.61	68.65
1.423	1.423 (0.269)	39	217182			42.66- 102.66	76.35
7 1,1-Difluoroethane					CAS #: 75-37-6		
1.451	1.437 (0.275)	65	202290	51.2634	51.263	80.00- 120.00	100.00
1.493	1.479 (0.282)	51	761789			321.86- 381.86	376.58
1.451	1.451 (0.275)	47	151587			45.34- 105.34	74.94
8 Freon 12					CAS #: 75-71-8		
1.465	1.465 (0.277)	85	877175	50.2435	50.244	80.00- 120.00	100.00
1.465	1.465 (0.277)	87	283337			2.63- 62.63	32.30
9 Chlorodifluoromethane					CAS #: 75-45-6		
1.493	1.493 (0.282)	67	94454	49.2265	49.226	80.00- 120.00	100.00
1.493	1.479 (0.282)	51	761789			719.76- 779.76	806.52
10 Freon 114					CAS #: 76-14-2		
1.563	1.563 (0.296)	135	679372	52.5180	52.518	80.00- 120.00	100.00
1.563	1.563 (0.296)	137	217509			2.12- 62.12	32.02
12 Isobutane					CAS #: 75-28-5		
1.577	1.577 (0.298)	43	669710	49.2214	49.221	80.00- 120.00	100.00
1.577	1.577 (0.298)	42	219671			2.44- 62.44	32.80
1.577	1.577 (0.298)	58	24026			0.00- 33.26	3.59
15 Chloromethane					CAS #: 74-87-3		
1.647	1.646 (0.312)	50	411656	56.7311	56.731	80.00- 120.00	100.00
1.647	1.646 (0.312)	52	133938			2.41- 62.41	32.54
18 Butane					CAS #: 106-97-8		
1.703	1.702 (0.322)	58	87919	51.3052	51.305	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
18 Butane (continued)							
1.703	1.702 (0.322)	43	655806			727.41- 787.41	745.92
19 Vinyl Chloride					CAS #: 75-01-4		
1.745	1.744 (0.330)	62	402342	51.8152	51.815	80.00- 120.00	100.00
1.745	1.744 (0.330)	64	121604			1.28- 61.28	30.22
20 1,3-Butadiene					CAS #: 106-99-0		
1.759	1.758 (0.333)	54	327848	46.0701	46.070	80.00- 120.00	100.00
1.759	1.758 (0.333)	39	319383			69.23- 129.23	97.42
24 Bromomethane					CAS #: 74-83-9		
2.094	2.094 (0.396)	94	308116	50.1726	50.172	80.00- 120.00	100.00
2.094	2.094 (0.396)	96	287377			62.78- 122.78	93.27
30 Chloroethane					CAS #: 75-00-3		
2.206	2.206 (0.417)	64	182631	50.1045	50.104	80.00- 120.00	100.00
2.206	2.206 (0.417)	66	55616			1.44- 61.44	30.45
2.206	2.206 (0.417)	49	59314			4.12- 64.12	32.48
31 Isopentane					CAS #: 78-78-4		
2.220	2.220 (0.420)	43	444476	47.6854	47.685	80.00- 120.00	100.00
2.220	2.220 (0.420)	57	313955			38.82- 98.82	70.63
32 Vinyl Bromide					CAS #: 593-60-2		
2.388	2.388 (0.452)	106	323129	48.3947	48.395	80.00- 120.00	100.00
2.388	2.388 (0.452)	108	296620			63.14- 123.14	91.80
33 Freon 11					CAS #: 75-69-4		
2.430	2.430 (0.460)	101	981862	53.1540	53.154	80.00- 120.00	100.00
2.430	2.430 (0.460)	103	637774			35.12- 95.12	64.96
34 Dichlorofluoromethane					CAS #: 75-43-4		
2.444	2.444 (0.463)	67	770674	52.1906	52.191	80.00- 120.00	100.00
2.444	2.444 (0.463)	69	234886			0.74- 60.74	30.48
35 Pentane					CAS #: 109-66-0		
2.500	2.500 (0.473)	43	679095	45.7299	45.730	80.00- 120.00	100.00
2.500	2.500 (0.473)	57	109100			0.00- 45.97	16.07
2.500	2.500 (0.473)	72	57191			0.00- 38.10	8.42
38 Ethyl Ether					CAS #: 60-29-7		
2.780	2.780 (0.526)	74	158257	47.5315	47.532	80.00- 120.00	100.00
2.780	2.780 (0.526)	59	282183			147.68- 207.68	178.31
2.780	2.780 (0.526)	45	359126			206.40- 266.40	226.93

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
39 Ethanol					CAS #: 64-17-5		
2.766	2.766 (0.523)	46	61594	41.2182	41.218	80.00- 120.00	100.00
2.780	2.780 (0.526)	45	358264			523.01- 583.01	581.65
42 Acrolein					CAS #: 107-02-8		
3.032	3.032 (0.574)	55	127869	51.5638	51.564	80.00- 120.00	100.00
3.032	3.032 (0.574)	56	179602			110.33- 170.33	140.46
43 Freon 113					CAS #: 76-13-1		
3.046	3.032 (0.576)	151	636654	50.4178	50.418	80.00- 120.00	100.00
3.046	3.046 (0.576)	153	404040			33.72- 93.72	63.46
3.032	3.032 (0.574)	101	761755			89.67- 149.67	119.65
44 1,1-Dichloroethene					CAS #: 75-35-4		
3.074	3.074 (0.582)	96	355249	46.7071	46.707	80.00- 120.00	100.00
3.074	3.074 (0.582)	98	225794			33.39- 93.39	63.56
3.074	3.074 (0.582)	61	699044			163.82- 223.82	196.78
47 Acetone					CAS #: 67-64-1		
3.214	3.214 (0.608)	58	201139	47.8635	47.864	80.00- 120.00	100.00
3.214	3.214 (0.608)	43	666128			299.66- 359.66	331.18
48 Carbon Disulfide					CAS #: 75-15-0		
3.298	3.298 (0.624)	76	971801	51.3542	51.354	80.00- 120.00	100.00
49 Iodomethane					CAS #: 74-88-4		
3.270	3.270 (0.619)	142	900572	55.0356	55.036	80.00- 120.00	100.00
3.270	3.270 (0.619)	127	416889			14.58- 74.58	46.29
52 2-Propanol					CAS #: 67-63-0		
3.410	3.409 (0.645)	45	741924	49.0911	49.091	80.00- 120.00	100.00
3.396	3.395 (0.643)	43	152240			0.00- 48.61	20.52
54 3-Chloropropene					CAS #: 107-05-1		
3.535	3.535 (0.669)	76	152036	46.6658	46.666	80.00- 120.00	100.00
3.535	3.535 (0.669)	41	516943			338.06- 398.06	340.01
57 Acetonitrile					CAS #: 75-05-8		
3.633	3.633 (0.688)	41	316568	47.8390	47.839	80.00- 120.00	100.00
3.633	3.633 (0.688)	40	160241			21.81- 81.81	50.62
3.633	3.633 (0.688)	38	36853			0.00- 41.86	11.64
59 Methylene Chloride					CAS #: 75-09-2		
3.717	3.717 (0.703)	49	482345	47.9596	47.960	80.00- 120.00	100.00
3.731	3.717 (0.706)	84	293223			30.77- 90.77	60.79
3.717	3.717 (0.703)	51	146890			1.39- 61.39	30.45

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
62 tert-Butyl alcohol					CAS #: 75-65-0		
3.857	3.857 (0.730)	59	856451	45.1483	45.148	80.00- 120.00	100.00
3.857	3.857 (0.730)	41	194429			0.00- 51.05	22.70
3.857	3.857 (0.730)	57	92509			0.00- 41.68	10.80
63 Methyl tert-butyl ether					CAS #: 1634-04-4		
3.941	3.941 (0.746)	73	932312	45.5348	45.535	80.00- 120.00	100.00
3.941	3.941 (0.746)	57	277959			0.00- 58.86	29.81
3.941	3.941 (0.746)	41	266499			0.00- 57.27	28.58
64 trans-1,2-Dichloroethene					CAS #: 156-60-5		
3.969	3.969 (0.751)	98	224553	43.8713	43.871	80.00- 120.00	100.00
3.969	3.969 (0.751)	61	601545			244.59- 304.59	267.89
3.969	3.969 (0.751)	96	353711			129.84- 189.84	157.52
66 Acrylonitrile					CAS #: 107-13-1		
4.067	4.067 (0.770)	52	249191	40.5660	40.566	80.00- 120.00	100.00
4.067	4.067 (0.770)	53	297250			88.50- 148.50	119.29
67 Hexane					CAS #: 110-54-3		
4.179	4.179 (0.791)	57	634798	45.7398	45.740	80.00- 120.00	100.00
4.179	4.179 (0.791)	43	389866			32.99- 92.99	61.42
4.179	4.179 (0.791)	86	75828			0.00- 42.56	11.95
71 1,1-Dichloroethane					CAS #: 75-34-3		
4.459	4.459 (0.844)	63	655962	45.9593	45.959	80.00- 120.00	100.00
4.459	4.459 (0.844)	65	200640			0.76- 60.76	30.59
72 Isopropyl ether					CAS #: 108-20-3		
4.445	4.445 (0.841)	45	1277983	43.6336	43.634	80.00- 120.00	100.00
4.445	4.445 (0.841)	87	285465			0.00- 51.37	22.34
4.445	4.445 (0.841)	59	146667			0.00- 41.09	11.48
73 Vinyl Acetate					CAS #: 108-05-4		
4.501	4.501 (0.852)	86	81653	46.5327	46.533	80.00- 120.00	100.00
4.501	4.501 (0.852)	43	1137687			1391.63-1451.63	1393.32
79 Ethyl-tert-butyl ether					CAS #: 637-92-3		
4.809	4.809 (0.910)	59	1228192	43.4359	43.436	80.00- 120.00	100.00
4.809	4.809 (0.910)	87	408232			3.22- 63.22	33.24
4.809	4.809 (0.910)	41	238920			0.00- 48.12	19.45
84 2,2-Dichloropropane					CAS #: 594-20-7		
5.005	5.005 (0.947)	77	615125	46.2628	46.263	80.00- 120.00	100.00
5.005	5.005 (0.947)	79	194943			2.00- 62.00	31.69
5.005	5.005 (0.947)	97	142011			0.00- 53.36	23.09

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
85 cis-1,2-Dichloroethene					CAS #: 156-59-2		
5.047	5.046 (0.955)	98	225832	44.5087	44.509	80.00- 120.00	100.00
5.047	5.046 (0.955)	96	349618			127.22- 187.22	154.81
5.047	5.046 (0.955)	61	691469			283.85- 343.85	306.19
86 2-Butanone					CAS #: 78-93-3		
5.075	5.074 (0.960)	72	165849	46.7967	46.797	80.00- 120.00	100.00
5.075	5.074 (0.960)	43	1714508			1055.75-1115.75	1033.78
5.075	5.074 (0.960)	57	67073			10.59- 70.59	40.44
87 Ethyl Acetate					CAS #: 141-78-6		
5.089	5.088 (0.963)	45	136666	46.7763	46.776	80.00- 120.00	100.00
5.047	5.046 (0.955)	61	691469			450.31- 510.31	505.96
5.089	5.088 (0.963)	70	80925			30.42- 90.42	59.21
89 Tetrahydrofuran					CAS #: 109-99-9		
5.270	5.270 (0.997)	42	442649	44.2927	44.293	80.00- 120.00	100.00
5.270	5.270 (0.997)	71	145630			2.92- 62.92	32.90
5.270	5.270 (0.997)	72	152957			3.54- 63.54	34.55
92 Chloroform					CAS #: 67-66-3		
5.340	5.340 (1.011)	83	737613	46.9424	46.942	80.00- 120.00	100.00
5.340	5.340 (1.011)	85	476370			34.71- 94.71	64.58
94 Cyclohexane					CAS #: 110-82-7		
5.438	5.438 (1.029)	84	424816	42.7727	42.773	80.00- 120.00	100.00
5.438	5.438 (1.029)	56	629667			120.40- 180.40	148.22
5.438	5.438 (1.029)	41	349279			54.20- 114.20	82.22
96 1,1,1-Trichloroethane					CAS #: 71-55-6		
5.466	5.466 (1.034)	97	791199	44.7967	44.797	80.00- 120.00	100.00
5.466	5.466 (1.034)	99	508314			33.76- 93.76	64.25
97 Carbon Tetrachloride					CAS #: 56-23-5		
5.578	5.578 (1.056)	119	796723	48.9781	48.978	80.00- 120.00	100.00
5.578	5.578 (1.056)	117	834228			73.68- 133.68	104.71
99 1,1-Dichloropropene					CAS #: 563-58-6		
5.606	5.606 (0.907)	110	195976	50.5687	50.569	80.00- 120.00	100.00
5.606	5.606 (0.907)	75	508703			231.09- 291.09	259.57
101 2,2,4-Trimethylpentane					CAS #: 540-84-1		
5.774	5.774 (1.093)	57	2021866	46.5857	46.586	80.00- 120.00	100.00
5.774	5.774 (1.093)	56	662324			1.12- 61.12	32.76
5.774	5.774 (1.093)	41	541320			0.00- 57.49	26.77

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
102 Benzene					CAS #: 71-43-2		
5.788	5.788 (0.937)	78	1000888	51.5051	51.505	80.00- 120.00	100.00
5.788	5.788 (0.937)	77	239377			0.00- 53.80	23.92
105 tert-Amyl methyl ether					CAS #: 994-05-8		
5.858	5.858 (0.948)	87	246912	47.6525	47.652	80.00- 120.00	100.00
5.858	5.858 (0.948)	73	977723			365.20- 425.20	395.98
5.858	5.858 (0.948)	55	326363			91.31- 151.31	132.18
106 1,2-Dichloroethane					CAS #: 107-06-2		
5.886	5.886 (0.952)	62	566127	50.6012	50.601	80.00- 120.00	100.00
5.886	5.886 (0.952)	64	174233			1.20- 61.20	30.78
107 Heptane					CAS #: 142-82-5		
5.942	5.942 (0.962)	71	338476	44.2211	44.221	80.00- 120.00	100.00
5.942	5.942 (0.962)	43	687022			179.02- 239.02	202.98
5.942	5.942 (0.962)	57	410936			84.85- 144.85	121.41
110 n-Butanol					CAS #: 71-36-3		
6.348	6.348 (1.027)	56	279722	44.9083	44.908	80.00- 120.00	100.00
6.348	6.348 (1.027)	41	194040			40.21- 100.21	69.37
6.348	6.348 (1.027)	43	151463			25.00- 85.00	54.15
111 Trichloroethene					CAS #: 79-01-6		
6.362	6.362 (1.029)	95	450162	46.1753	46.175	80.00- 120.00	100.00
6.362	6.362 (1.029)	130	485023			74.96- 134.96	107.74
6.362	6.362 (1.029)	97	295455			34.80- 94.80	65.63
114 1,2-Dichloropropane					CAS #: 78-87-5		
6.586	6.586 (1.066)	63	190051	42.1914	42.191	80.00- 120.00	100.00
6.586	6.586 (1.066)	62	119178			52.03- 112.03	62.71
6.586	6.586 (1.066)	41	164632			79.97- 139.97	86.63
116 Methyl Methacrylate					CAS #: 80-62-6		
6.664	6.664 (0.773)	69	325857	47.0174	47.017	80.00- 120.00	100.00
6.664	6.664 (0.773)	41	507113			134.02- 194.02	155.62
6.664	6.664 (0.773)	100	128238			9.54- 69.54	39.35
117 1,4-Dioxane					CAS #: 123-91-1		
6.700	6.700 (1.084)	88	222565	45.2121	45.212	80.00- 120.00	100.00
6.700	6.700 (1.084)	58	181412			55.80- 115.80	81.51
6.700	6.700 (1.084)	57	69378			8.68- 68.68	31.17
118 Dibromomethane					CAS #: 74-95-3		
6.721	6.721 (0.780)	174	411033	53.2532	53.253	80.00- 120.00	100.00
6.714	6.714 (0.779)	93	405609			67.27- 127.27	98.68

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
118 Dibromomethane (continued)							
6.714	6.721 (0.779)	95	334803			50.92- 110.92	81.45
122 Bromodichloromethane					CAS #: 75-27-4		
6.836	6.836 (1.106)	83	720792	44.1333	44.133	80.00- 120.00	100.00
6.836	6.836 (1.106)	85	459566			34.31- 94.31	63.76
126 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.208	7.208 (1.166)	75	525230	43.2679	43.268	80.00- 120.00	100.00
7.208	7.208 (1.166)	77	167532			1.42- 61.42	31.90
7.208	7.208 (1.166)	39	360572			38.56- 98.56	68.65
127 Methylcyclohexane					CAS #: 108-87-2		
6.460	6.460 (1.045)	83	555319	42.5971	42.597	80.00- 120.00	100.00
6.460	6.460 (1.045)	98	255085			15.60- 75.60	45.93
6.460	6.460 (1.045)	55	603738			78.53- 138.53	108.72
131 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.316	7.316 (1.184)	58	321989	39.0100	39.010	80.00- 120.00	100.00
7.316	7.316 (1.184)	43	834614			231.30- 291.30	259.21
7.316	7.316 (1.184)	85	125337			8.94- 68.94	38.93
137 Toluene					CAS #: 108-88-3		
7.437	7.437 (1.203)	91	1161791	44.5562	44.556	80.00- 120.00	100.00
7.437	7.437 (1.203)	92	668781			28.30- 88.30	57.56
136 Octane					CAS #: 111-65-9		
7.445	7.444 (1.205)	57	346723	39.9669	39.967	80.00- 120.00	100.00
7.445	7.444 (1.205)	85	348914			67.11- 127.11	100.63
7.445	7.444 (1.205)	43	807438			214.21- 274.21	232.88
139 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
7.688	7.688 (0.892)	75	505722	47.6806	47.681	80.00- 120.00	100.00
7.688	7.688 (0.892)	77	162540			2.15- 62.15	32.14
7.688	7.688 (0.892)	39	327248			36.09- 96.09	64.71
141 1,1,2-Trichloroethane					CAS #: 79-00-5		
7.846	7.846 (0.910)	97	394652	48.3820	48.382	80.00- 120.00	100.00
7.846	7.846 (0.910)	99	242609			31.62- 91.62	61.47
7.846	7.846 (0.910)	83	339110			56.35- 116.35	85.93
142 Tetrachloroethene					CAS #: 127-18-4		
7.882	7.881 (0.914)	166	575229	50.9874	50.987	80.00- 120.00	100.00
7.882	7.881 (0.914)	129	449621			48.71- 108.71	78.16
7.882	7.874 (0.914)	131	429966			46.55- 106.55	74.75

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
143 2-Hexanone					CAS #: 591-78-6		
8.003	8.003 (0.929)	58	431319	46.0345	46.034	80.00- 120.00	100.00
8.003	8.003 (0.929)	43	793827			157.91- 217.91	184.05
8.003	8.003 (0.929)	100	79836			0.00- 47.86	18.51
144 1,3-Dichloropropane					CAS #: 142-28-9		
7.989	7.989 (1.293)	76	519760	41.7794	41.779	80.00- 120.00	100.00
7.989	7.989 (1.293)	41	544787			82.96- 142.96	104.82
7.989	7.989 (1.293)	78	168402			2.55- 62.55	32.40
146 Dibromochloromethane					CAS #: 124-48-1		
8.154	8.154 (0.946)	129	804899	52.0135	52.014	80.00- 120.00	100.00
8.154	8.154 (0.946)	127	627520			47.77- 107.77	77.96
148 1,2-Dibromoethane (EDB)					CAS #: 106-93-4		
8.268	8.261 (0.959)	107	633264	49.9918	49.992	80.00- 120.00	100.00
8.268	8.261 (0.959)	109	595945			64.60- 124.60	94.11
151 1-Bromo-2-Chloroethane					CAS #: 107-04-0		
7.115	7.115 (1.151)	63	699623	44.3895	44.389	80.00- 120.00	100.00
7.115	7.115 (1.151)	65	209271			0.95- 60.95	29.91
7.122	7.122 (1.152)	144	77308			0.00- 40.45	11.05
154 Chlorobenzene					CAS #: 108-90-7		
8.641	8.641 (1.002)	112	953549	48.4474	48.447	80.00- 120.00	100.00
8.641	8.641 (1.002)	114	307504			2.13- 62.13	32.25
8.641	8.641 (1.002)	77	517993			26.35- 86.35	54.32
155 Ethyl Benzene					CAS #: 100-41-4		
8.684	8.684 (1.007)	106	483736	49.1508	49.151	80.00- 120.00	100.00
8.684	8.684 (1.007)	91	1495211			282.48- 342.48	309.10
156 Nonane					CAS #: 111-84-2		
8.705	8.705 (1.010)	43	825960	43.2984	43.298	80.00- 120.00	100.00
8.705	8.705 (1.010)	57	764338			59.52- 119.52	92.54
8.705	8.705 (1.010)	85	265463			0.00- 59.76	32.14
157 1,1,1,2-Tetrachloroethane					CAS #: 630-20-6		
8.712	8.712 (1.011)	131	485415	44.8124	44.812	80.00- 120.00	100.00
8.712	8.712 (1.011)	117	324937			38.22- 98.22	66.94
8.712	8.712 (1.011)	95	181367			7.54- 67.54	37.36
158 m,p-Xylene					CAS #: 108-38-3		
8.784	8.784 (1.019)	106	598342	48.8679	48.868	80.00- 120.00	100.00
8.784	8.784 (1.019)	91	1189548			171.36- 231.36	198.81

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
164 o-Xylene					CAS #: 95-47-6		
9.121	9.121 (1.058)	106	552716	47.5506	47.550	80.00- 120.00	100.00
9.121	9.121 (1.058)	91	1152650			179.99- 239.99	208.54
165 Styrene					CAS #: 100-42-5		
9.149	9.149 (1.061)	104	957151	47.5282	47.528	80.00- 120.00	100.00
9.142	9.142 (1.061)	78	451784			19.09- 79.09	47.20
167 Bromoform					CAS #: 75-25-2		
9.350	9.350 (1.085)	173	765859	52.1932	52.193	80.00- 120.00	100.00
9.350	9.350 (1.085)	171	396505			21.45- 81.45	51.77
168 Cumene					CAS #: 98-82-8		
9.414	9.414 (1.092)	105	1746256	47.5168	47.517	80.00- 120.00	100.00
9.414	9.414 (1.092)	120	472939			0.00- 56.99	27.08
9.407	9.407 (1.091)	51	197131			0.00- 41.77	11.29
169 Cyclohexanone					CAS #: 108-94-1		
9.579	9.579 (1.111)	55	486376	42.0552	42.055	80.00- 120.00	100.00
9.579	9.579 (1.111)	98	193828			9.22- 69.22	39.85
9.579	9.579 (1.111)	42	340309			42.60- 102.60	69.97
175 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
9.737	9.737 (1.130)	83	905399	49.6906	49.691	80.00- 120.00	100.00
9.737	9.737 (1.130)	85	589355			34.35- 94.35	65.09
177 Bromobenzene					CAS #: 108-86-1		
9.730	9.730 (1.129)	156	600045	52.5231	52.523	80.00- 120.00	100.00
9.737	9.737 (1.130)	158	584368			67.29- 127.29	97.39
9.730	9.730 (1.129)	77	921497			132.41- 192.41	153.57
178 Propylbenzene					CAS #: 103-65-1		
9.758	9.758 (1.132)	91	2176651	50.7607	50.761	80.00- 120.00	100.00
9.758	9.758 (1.132)	120	519859			0.00- 53.77	23.88
9.758	9.758 (1.132)	105	81006			0.00- 33.81	3.72
179 1,2,3-Trichloropropane					CAS #: 96-18-4		
9.787	9.787 (1.135)	110	279553	50.9328	50.933	80.00- 120.00	100.00
9.787	9.787 (1.135)	75	935004			285.00- 345.00	334.46
9.787	9.787 (1.135)	61	238650			54.06- 114.06	85.37
181 trans-1,4-Dichloro-2-butene					CAS #: 110-57-6		
9.787	9.787 (1.135)	53	291463	67.1087	67.109	80.00- 120.00	100.00
9.787	9.787 (1.135)	89	149224			21.19- 81.19	51.20
9.787	9.787 (1.135)	75	935004			372.45- 432.45	320.80

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
182 Decane					CAS #: 124-18-5		
9.808	9.808 (1.138)	57	1015228	45.7880	45.788	80.00- 120.00	100.00
9.808	9.808 (1.138)	71	350411			4.13- 64.13	34.52
9.808	9.808 (1.138)	142	50583			0.00- 34.73	4.98
183 4-Ethyltoluene					CAS #: 622-96-8		
9.851	9.851 (1.143)	120	559056	50.2977	50.298	80.00- 120.00	100.00
9.851	9.851 (1.143)	105	1814024			296.79- 356.79	324.48
184 2-Chlorotoluene					CAS #: 95-49-8		
9.873	9.873 (1.145)	126	467902	51.8090	51.809	80.00- 120.00	100.00
9.873	9.873 (1.145)	91	1645842			336.29- 396.29	351.75
9.873	9.873 (1.145)	65	307454			38.83- 98.83	65.71
185 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
9.902	9.901 (1.149)	120	781289	50.0457	50.046	80.00- 120.00	100.00
9.902	9.901 (1.149)	105	1584548			176.40- 236.40	202.81
188 alpha Methyl Styrene					CAS #: 98-83-9		
10.102	10.102 (1.172)	118	733138	45.8533	45.853	80.00- 120.00	100.00
10.102	10.102 (1.172)	103	412922			26.64- 86.64	56.32
189 tert-Butylbenzene					CAS #: 98-06-6		
10.174	10.174 (1.180)	119	1409650	49.0754	49.075	80.00- 120.00	100.00
10.174	10.174 (1.180)	134	360368			0.00- 54.82	25.56
10.174	10.174 (1.180)	91	910061			36.92- 96.92	64.56
190 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
10.224	10.224 (1.186)	105	1602255	52.0484	52.048	80.00- 120.00	100.00
10.224	10.224 (1.186)	120	755361			16.58- 76.58	47.14
192 sec-Butylbenzene					CAS #: 135-98-8		
10.360	10.360 (1.202)	134	468284	50.4734	50.473	80.00- 120.00	100.00
10.360	10.353 (1.202)	105	2267313			451.53- 511.53	484.17
10.360	10.353 (1.202)	91	355423			46.48- 106.48	75.90
194 p-Cymene					CAS #: 99-87-6		
10.467	10.467 (1.214)	119	1978394	50.9192	50.919	80.00- 120.00	100.00
10.467	10.467 (1.214)	134	536288			0.00- 56.79	27.11
10.467	10.467 (1.214)	91	456663			0.00- 54.04	23.08
195 1,3-Dichlorobenzene					CAS #: 541-73-1		
10.518	10.517 (1.220)	146	1116042	53.3621	53.362	80.00- 120.00	100.00
10.518	10.517 (1.220)	148	704699			33.53- 93.53	63.14
10.518	10.517 (1.220)	111	440917			11.05- 71.05	39.51

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
196 1,4-Dichlorobenzene					CAS #: 106-46-7		
10.596	10.596 (1.229)	146	1118514	51.9206	51.921	80.00- 120.00	100.00
10.596	10.596 (1.229)	148	711562			33.47- 93.47	63.62
10.596	10.596 (1.229)	111	433013			9.65- 69.65	38.71
199 alpha-Chlorotoluene					CAS #: 100-44-7		
10.711	10.711 (1.243)	91	1419574	47.9266	47.927	80.00- 120.00	100.00
10.711	10.711 (1.243)	126	317903			0.00- 52.04	22.39
201 Undecane					CAS #: 1120-21-4		
10.804	10.804 (1.253)	57	1193121	45.6649	45.665	80.00- 120.00	100.00
10.804	10.804 (1.253)	43	1011813			55.86- 115.86	84.80
202 Butylbenzene					CAS #: 104-51-8		
10.818	10.818 (1.255)	134	521333	51.7496	51.750	80.00- 120.00	100.00
10.818	10.818 (1.255)	91	1866078			331.99- 391.99	357.94
10.818	10.818 (1.255)	92	961144			161.01- 221.01	184.36
204 1,2-Dichlorobenzene					CAS #: 95-50-1		
10.919	10.926 (1.267)	146	1081781	53.5259	53.526	80.00- 120.00	100.00
10.926	10.926 (1.268)	148	680448			33.23- 93.23	62.90
10.919	10.919 (1.267)	111	446007			12.36- 72.36	41.23
206 1,2-Dibromo-3-chloropropane					CAS #: 96-12-8		
11.606	11.606 (1.347)	157	575609	49.1184	49.118	80.00- 120.00	100.00
11.599	11.599 (1.346)	75	464055			58.96- 118.96	80.62
11.606	11.606 (1.347)	155	446041			47.82- 107.82	77.49
207 Dodecane					CAS #: 112-40-3		
11.714	11.714 (1.359)	57	976305	44.1897	44.190	80.00- 120.00	100.00
11.714	11.714 (1.359)	43	769957			50.85- 110.85	78.86
213 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
12.301	12.301 (1.427)	180	843023	58.7269	58.727	80.00- 120.00	100.00
12.301	12.301 (1.427)	182	812988			65.40- 125.40	96.44
215 Hexachlorobutadiene					CAS #: 87-68-3		
12.387	12.387 (1.437)	225	658779	60.7534	60.753	80.00- 120.00	100.00
12.387	12.387 (1.437)	223	419101			33.70- 93.70	63.62
216 Naphthalene					CAS #: 91-20-3		
12.552	12.559 (1.456)	128	197443	4.50428	4.504	80.00- 120.00	100.00
12.552	12.559 (1.456)	127	27369			0.00- 43.10	13.86
222 1,2,3-Trichlorobenzene					CAS #: 87-61-6		
12.803	12.810 (1.485)	180	778947	59.2994	59.299	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
222 1,2,3-Trichlorobenzene (continued)							
12.803	12.810 (1.485)	182	737572			65.67- 125.67	94.69
12.803	12.802 (1.485)	145	267620			6.02- 66.02	34.36

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd3.i
Lab File ID: 3072704a.d
Lab Smp Id: LCS
Analysis Type: VOA
Quant Type: ISTD
Operator: LD
Method File: /chem/msd3.i/27JUL21.b/321q0622a.m
Misc Info: 50ppbv (100ppbv)

Calibration Date: 27-JUL-2021
Calibration Time: 11:36
Client Smp ID: LCS
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	238986	143392	334580	250619	4.87
108 1,4-Difluorobenze	785289	471173	1099405	851577	8.44
153 Chlorobenzene-d5	683596	410158	957034	720138	5.35

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.28	4.95	5.61	5.28	0.00
108 1,4-Difluorobenze	6.18	5.85	6.51	6.18	0.00
153 Chlorobenzene-d5	8.61	8.28	8.94	8.62	0.08

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

US32TAR1

RECOVERY REPORT

Client Name: Client SDG: 27JUL21
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: LCS Client Smp ID: LCS
Level: LOW Operator: LD
Data Type: MS DATA SampleType: LCS
SpikeList File: AT12.spk Quant Type: ISTD
Sublist File: AT20LCS_new.sub
Method File: /chem/msd3.i/27JUL21.b/321q0622a.m
Misc Info: 50ppbv (100ppbv)

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
5 Propylene	50.000	46.990	93.98	70-130
8 Freon 12	50.000	50.244	100.49	70-130
10 Freon 114	50.000	52.518	105.04	70-130
15 Chloromethane	50.000	56.731	113.46	70-130
18 Butane	50.000	51.305	102.61	70-130
19 Vinyl Chloride	50.000	51.815	103.63	70-130
20 1,3-Butadiene	50.000	46.070	92.14	70-130
24 Bromomethane	50.000	50.172	100.35	70-130
30 Chloroethane	50.000	50.104	100.21	70-130
31 Isopentane	50.000	47.685	95.37	70-130
33 Freon 11	50.000	53.154	106.31	70-130
39 Ethanol	58.000	41.218	71.07	70-130
43 Freon 113	50.000	50.418	100.84	70-130
44 1,1-Dichloroethen	50.000	46.707	93.41	70-130
47 Acetone	50.000	47.864	95.73	70-130
48 Carbon Disulfide	50.000	51.354	102.71	70-130
52 2-Propanol	50.000	49.091	98.18	70-130
54 3-Chloropropene	50.000	46.666	93.33	70-130
59 Methylene Chlorid	50.000	47.960	95.92	70-130
63 Methyl tert-butyl	50.000	45.535	91.07	70-130
64 trans-1,2-Dichlor	50.000	43.871	87.74	70-130
67 Hexane	50.000	45.740	91.48	70-130
71 1,1-Dichloroethan	50.000	45.959	91.92	70-130
73 Vinyl Acetate	50.000	46.533	93.07	70-130
85 cis-1,2-Dichloroe	50.000	44.509	89.02	70-130
86 2-Butanone	50.000	46.797	93.59	70-130
89 Tetrahydrofuran	50.000	44.293	88.59	70-130
92 Chloroform	50.000	46.942	93.88	70-130
94 Cyclohexane	50.000	42.773	85.55	70-130
96 1,1,1-Trichloroet	50.000	44.797	89.59	70-130
97 Carbon Tetrachlor	50.000	48.978	97.96	70-130
101 2,2,4-Trimethylpe	50.000	46.586	93.17	70-130
102 Benzene	50.000	51.505	103.01	70-130

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
106 1,2-Dichloroethan	50.000	50.601	101.20	70-130
107 Heptane	50.000	44.221	88.44	70-130
111 Trichloroethene	50.000	46.175	92.35	70-130
127 Methylcyclohexane	50.000	42.597	85.19	70-130
114 1,2-Dichloropropa	50.000	42.191	84.38	70-130
117 1,4-Dioxane	50.000	45.212	90.42	70-130
122 Bromodichlorometh	50.000	44.133	88.27	70-130
126 cis-1,3-Dichlorop	50.000	43.268	86.54	70-130
131 4-Methyl-2-pentan	50.000	39.010	78.02	70-130
137 Toluene	50.000	44.556	89.11	70-130
139 trans-1,3-Dichlor	50.000	47.681	95.36	70-130
141 1,1,2-Trichloroet	50.000	48.382	96.76	70-130
142 Tetrachloroethene	50.000	50.987	101.97	70-130
143 2-Hexanone	50.000	46.034	92.07	70-130
146 Dibromochlorometh	50.000	52.014	104.03	70-130
148 1,2-Dibromoethane	50.000	49.992	99.98	70-130
154 Chlorobenzene	50.000	48.447	96.89	70-130
155 Ethyl Benzene	50.000	49.151	98.30	70-130
158 m,p-Xylene	50.000	48.868	97.74	70-130
164 o-Xylene	50.000	47.550	95.10	70-130
165 Styrene	50.000	47.528	95.06	70-130
167 Bromoform	50.000	52.193	104.39	70-130
168 Cumene	50.000	47.517	95.03	70-130
175 1,1,2,2-Tetrachlo	50.000	49.691	99.38	70-130
178 Propylbenzene	50.000	50.761	101.52	70-130
183 4-Ethyltoluene	50.000	50.298	100.60	70-130
185 1,3,5-Trimethylbe	50.000	50.046	100.09	70-130
190 1,2,4-Trimethylbe	50.000	52.048	104.10	70-130
195 1,3-Dichlorobenze	50.000	53.362	106.72	70-130
196 1,4-Dichlorobenze	50.000	51.921	103.84	70-130
199 alpha-Chlorotolue	50.000	47.927	95.85	70-130
204 1,2-Dichlorobenze	50.000	53.526	107.05	70-130
213 1,2,4-Trichlorobe	58.000	58.727	101.25	70-130
215 Hexachlorobutadie	58.000	60.753	104.75	70-130
216 Naphthalene	5.800	4.504	77.66	60-140

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 104 1,2-Dichloroethan	25.000	25.034	100.14	70-130
$ 134 Toluene-d8	25.000	23.069	92.28	70-130
$ 170 4-Bromofluorobenz	25.000	25.182	100.73	70-130

Data File: /chem/msd3.i/27JUL21.b/3072704a.d

Page 1

Date : 27-JUL-2021 12:13

Client ID: LCS

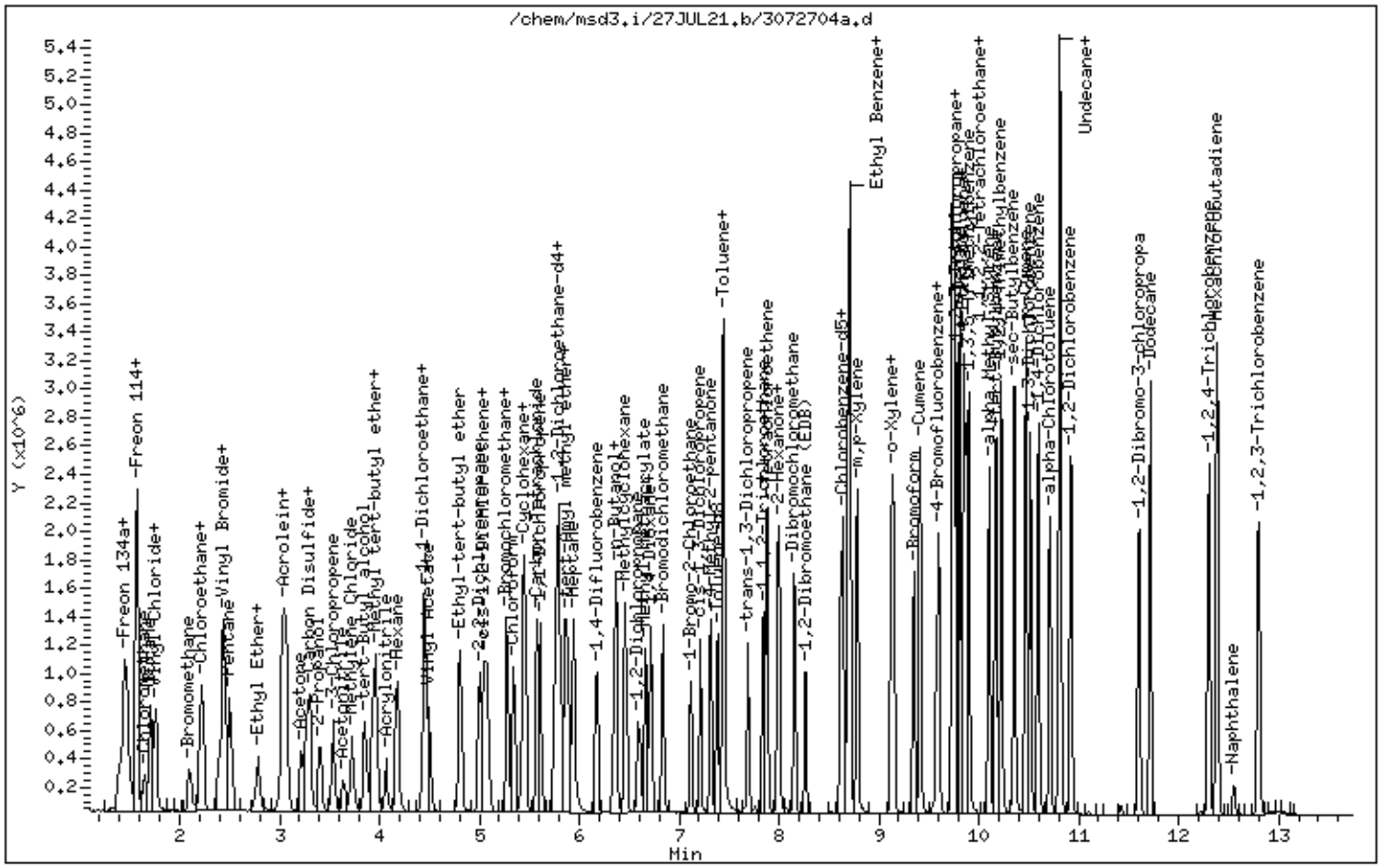
Instrument: msd3.i

Sample Info: 100mL 3018-2121A

Operator: LD

Column phase: RTX-624

Column diameter: 0.25



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Client Sample ID: LCSD

Lab ID#: 2107284-29BB

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3072705a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/27/21 12:40 PM**	

Compound	%Recovery	Method Limits
1,1,1-Trichloroethane	90	70-130
1,1,2,2-Tetrachloroethane	97	70-130
1,1,2-Trichloroethane	96	70-130
1,1-Dichloroethane	95	70-130
1,1-Dichloroethene	97	70-130
1,2,4-Trichlorobenzene	114	70-130
1,2,4-Trimethylbenzene	98	70-130
1,2-Dibromoethane (EDB)	101	70-130
1,2-Dichlorobenzene	103	70-130
1,2-Dichloroethane	96	70-130
1,2-Dichloropropane	74	70-130
1,3,5-Trimethylbenzene	97	70-130
1,3-Butadiene	96	70-130
1,3-Dichlorobenzene	104	70-130
1,4-Dichlorobenzene	101	70-130
1,4-Dioxane	94	70-130
2,2,4-Trimethylpentane	89	70-130
2-Butanone (Methyl Ethyl Ketone)	97	70-130
2-Hexanone	94	70-130
2-Propanol	102	70-130
3-Chloropropene	96	70-130
4-Ethyltoluene	98	70-130
4-Methyl-2-pentanone	81	70-130
Acetone	100	70-130
alpha-Chlorotoluene	94	70-130
Benzene	94	70-130
Bromodichloromethane	89	70-130
Bromoform	105	70-130
Bromomethane	102	70-130
Carbon Disulfide	105	70-130
Carbon Tetrachloride	99	70-130
Chlorobenzene	98	70-130
Chloroethane	104	70-130
Chloroform	94	70-130
Chloromethane	116	70-130
cis-1,2-Dichloroethene	91	70-130
cis-1,3-Dichloropropene	89	70-130
Cumene	96	70-130
Cyclohexane	87	70-130
Dibromochloromethane	105	70-130
Ethanol	74	70-130
Ethyl Benzene	99	70-130

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Client Sample ID: LCSD

Lab ID#: 2107284-29BB

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3072705a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/27/21 12:40 PM**	

Compound	%Recovery	Method Limits
Freon 11	109	70-130
Freon 12	104	70-130
Freon 113	104	70-130
Freon 114	108	70-130
Heptane	84	70-130
Hexachlorobutadiene	117	70-130
Hexane	95	70-130
m,p-Xylene	98	70-130
Methyl tert-butyl ether	96	70-130
Methylene Chloride	99	70-130
Naphthalene	86	60-140
o-Xylene	95	70-130
Propylbenzene	98	70-130
Propylene	100	70-130
Styrene	95	70-130
Tetrachloroethene	104	70-130
Tetrahydrofuran	87	70-130
Toluene	90	70-130
trans-1,2-Dichloroethene	92	70-130
trans-1,3-Dichloropropene	96	70-130
Trichloroethene	98	70-130
Vinyl Acetate	96	70-130
Vinyl Chloride	107	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	93	70-130
1,2-Dichloroethane-d4	99	70-130
4-Bromofluorobenzene	99	70-130

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EPA TO-15/MODIFIED TO14A

Data file : /chem/msd3.i/27JUL21.b/3072705a.d
Lab Smp Id: LCSD Client Smp ID: LCSD
Inj Date : 27-JUL-2021 12:40
Operator : LD Inst ID: msd3.i
Smp Info : 100mL 3018-2121A
Misc Info : 50ppbv (100ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msd3.i/27JUL21.b/321q0622a.m
Meth Date : 27-Jul-2021 15:31 lk8g Quant Type: ISTD
Cal Date : 23-JUN-2021 00:09 Cal File: 3062223.d
Als bottle: 14 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT20LCS_new.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE		(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 90 Bromochloromethane							CAS #: 74-97-5	
5.284	5.284 (1.000)	130	243047	25.0000			80.00- 120.00	100.00
5.284	5.284 (1.000)	128	189928				48.46- 108.46	78.14
5.284	5.270 (1.000)	49	338027				120.39- 180.39	139.08
* 108 1,4-Difluorobenzene							CAS #: 540-36-3	
6.180	6.180 (1.000)	114	877445	25.0000			80.00- 120.00	100.00
6.180	6.180 (1.000)	88	129432				0.00- 45.52	14.75
* 153 Chlorobenzene-d5							CAS #: 3114-55-4	
8.619	8.612 (1.000)	117	719626	25.0000			80.00- 120.00	100.00
8.619	8.612 (1.000)	82	385622				25.46- 85.46	53.59
$ 104 1,2-Dichloroethane-d4							CAS #: 17060-07-0	
5.816	5.816 (1.101)	65	332394	24.8517		24.852	80.00- 120.00	100.00
5.816	5.816 (1.101)	67	173528				21.66- 81.66	52.21
$ 134 Toluene-d8							CAS #: 2037-26-5	
7.387	7.387 (1.195)	98	837339	23.1690		23.169	80.00- 120.00	100.00
7.387	7.387 (1.195)	70	91942				0.00- 41.47	10.98

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 134 Toluene-d8 (continued)							
7.387	7.387 (1.195)	100	553973			36.47- 96.47	66.16
$ 170 4-Bromofluorobenzene					CAS #: 460-00-4		
9.601	9.601 (1.114)	174	472828	24.8406	24.841	80.00- 120.00	100.00
9.601	9.601 (1.114)	95	538908			93.06- 153.06	113.98
9.601	9.601 (1.114)	176	438110			62.87- 122.87	92.66
4 Freon 134a					CAS #: 811-97-2		
1.395	1.395 (0.264)	83	332500	57.4941	57.494	80.00- 120.00	100.00
1.395	1.395 (0.264)	69	269063			51.82- 111.82	80.92
1.493	1.479 (0.282)	51	769087			194.91- 254.91	231.30
5 Propylene					CAS #: 115-07-1		
1.423	1.423 (0.269)	41	292192	49.7711	49.771	80.00- 120.00	100.00
1.423	1.423 (0.269)	42	197311			35.61- 95.61	67.53
1.423	1.423 (0.269)	39	216909			42.66- 102.66	74.24
7 1,1-Difluoroethane					CAS #: 75-37-6		
1.451	1.437 (0.275)	65	197655	51.6493	51.649	80.00- 120.00	100.00
1.493	1.479 (0.282)	51	769087			321.86- 381.86	389.11
1.451	1.451 (0.275)	47	154211			45.34- 105.34	78.02
8 Freon 12					CAS #: 75-71-8		
1.465	1.465 (0.277)	85	883553	52.1856	52.186	80.00- 120.00	100.00
1.465	1.465 (0.277)	87	292822			2.63- 62.63	33.14
9 Chlorodifluoromethane					CAS #: 75-45-6		
1.493	1.493 (0.282)	67	99099	53.2564	53.256	80.00- 120.00	100.00
1.493	1.479 (0.282)	51	769087			719.76- 779.76	776.08
10 Freon 114					CAS #: 76-14-2		
1.563	1.563 (0.296)	135	674909	53.7984	53.798	80.00- 120.00	100.00
1.563	1.563 (0.296)	137	215383			2.12- 62.12	31.91
12 Isobutane					CAS #: 75-28-5		
1.577	1.577 (0.298)	43	668806	50.6864	50.686	80.00- 120.00	100.00
1.577	1.577 (0.298)	42	214869			2.44- 62.44	32.13
1.577	1.577 (0.298)	58	24794			0.00- 33.26	3.71
15 Chloromethane					CAS #: 74-87-3		
1.647	1.646 (0.312)	50	408064	57.9881	57.988	80.00- 120.00	100.00
1.647	1.646 (0.312)	52	133352			2.41- 62.41	32.68
18 Butane					CAS #: 106-97-8		
1.702	1.702 (0.322)	58	89189	53.6678	53.668	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
18 Butane (continued)							
1.702	1.702 (0.322)	43	655719			727.41- 787.41	735.20
19 Vinyl Chloride					CAS #: 75-01-4		
1.744	1.744 (0.330)	62	404277	53.6865	53.686	80.00- 120.00	100.00
1.744	1.744 (0.330)	64	121176			1.28- 61.28	29.97
20 1,3-Butadiene					CAS #: 106-99-0		
1.758	1.758 (0.333)	54	333078	48.2632	48.263	80.00- 120.00	100.00
1.758	1.758 (0.333)	39	315738			69.23- 129.23	94.79
24 Bromomethane					CAS #: 74-83-9		
2.094	2.094 (0.396)	94	305482	51.2934	51.293	80.00- 120.00	100.00
2.094	2.094 (0.396)	96	288033			62.78- 122.78	94.29
30 Chloroethane					CAS #: 75-00-3		
2.206	2.206 (0.417)	64	183146	51.8112	51.811	80.00- 120.00	100.00
2.206	2.206 (0.417)	66	55828			1.44- 61.44	30.48
2.206	2.206 (0.417)	49	59246			4.12- 64.12	32.35
31 Isopentane					CAS #: 78-78-4		
2.220	2.220 (0.420)	43	442460	48.9480	48.948	80.00- 120.00	100.00
2.220	2.220 (0.420)	57	316744			38.82- 98.82	71.59
32 Vinyl Bromide					CAS #: 593-60-2		
2.388	2.388 (0.452)	106	327273	50.5424	50.542	80.00- 120.00	100.00
2.388	2.388 (0.452)	108	302525			63.14- 123.14	92.44
33 Freon 11					CAS #: 75-69-4		
2.430	2.430 (0.460)	101	980329	54.7244	54.724	80.00- 120.00	100.00
2.444	2.430 (0.463)	103	643045			35.12- 95.12	65.59
34 Dichlorofluoromethane					CAS #: 75-43-4		
2.444	2.444 (0.463)	67	770452	53.8011	53.801	80.00- 120.00	100.00
2.444	2.444 (0.463)	69	235734			0.74- 60.74	30.60
35 Pentane					CAS #: 109-66-0		
2.500	2.500 (0.473)	43	678892	47.1405	47.140	80.00- 120.00	100.00
2.500	2.500 (0.473)	57	112196			0.00- 45.97	16.53
2.500	2.500 (0.473)	72	57328			0.00- 38.10	8.44
38 Ethyl Ether					CAS #: 60-29-7		
2.794	2.780 (0.529)	74	160226	49.6221	49.622	80.00- 120.00	100.00
2.780	2.780 (0.526)	59	282989			147.68- 207.68	176.62
2.780	2.780 (0.526)	45	363562			206.40- 266.40	226.91

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
39 Ethanol					CAS #: 64-17-5		
2.766	2.766 (0.523)	46	62412	43.0667	43.067	80.00- 120.00	100.00
2.780	2.780 (0.526)	45	362071			523.01- 583.01	580.13
42 Acrolein					CAS #: 107-02-8		
3.032	3.032 (0.574)	55	129199	53.7233	53.723	80.00- 120.00	100.00
3.032	3.032 (0.574)	56	178279			110.33- 170.33	137.99
43 Freon 113					CAS #: 76-13-1		
3.046	3.032 (0.576)	151	637959	52.0951	52.095	80.00- 120.00	100.00
3.046	3.046 (0.576)	153	407364			33.72- 93.72	63.85
3.032	3.032 (0.574)	101	774340			89.67- 149.67	121.38
44 1,1-Dichloroethene					CAS #: 75-35-4		
3.074	3.074 (0.582)	96	359541	48.7441	48.744	80.00- 120.00	100.00
3.074	3.074 (0.582)	98	230520			33.39- 93.39	64.12
3.074	3.074 (0.582)	61	706879			163.82- 223.82	196.61
47 Acetone					CAS #: 67-64-1		
3.214	3.214 (0.608)	58	203055	49.8248	49.825	80.00- 120.00	100.00
3.214	3.214 (0.608)	43	674244			299.66- 359.66	332.05
48 Carbon Disulfide					CAS #: 75-15-0		
3.298	3.298 (0.624)	76	965474	52.6093	52.609	80.00- 120.00	100.00
49 Iodomethane					CAS #: 74-88-4		
3.270	3.270 (0.619)	142	919579	57.9479	57.948	80.00- 120.00	100.00
3.270	3.270 (0.619)	127	427407			14.58- 74.58	46.48
52 2-Propanol					CAS #: 67-63-0		
3.409	3.409 (0.645)	45	748810	51.0903	51.090	80.00- 120.00	100.00
3.409	3.395 (0.645)	43	153434			0.00- 48.61	20.49
54 3-Chloropropene					CAS #: 107-05-1		
3.535	3.535 (0.669)	76	151228	47.8639	47.864	80.00- 120.00	100.00
3.535	3.535 (0.669)	41	518662			338.06- 398.06	342.97
57 Acetonitrile					CAS #: 75-05-8		
3.633	3.633 (0.688)	41	298477	46.5104	46.510	80.00- 120.00	100.00
3.633	3.633 (0.688)	40	165439			21.81- 81.81	55.43
3.633	3.633 (0.688)	38	36271			0.00- 41.86	12.15
59 Methylene Chloride					CAS #: 75-09-2		
3.731	3.717 (0.706)	49	484218	49.6458	49.646	80.00- 120.00	100.00
3.731	3.717 (0.706)	84	294045			30.77- 90.77	60.73
3.717	3.717 (0.703)	51	147945			1.39- 61.39	30.55

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
62 tert-Butyl alcohol					CAS #: 75-65-0		
3.857	3.857 (0.730)	59	862080	46.8608	46.861	80.00- 120.00	100.00
3.857	3.857 (0.730)	41	196834			0.00- 51.05	22.83
3.857	3.857 (0.730)	57	93898			0.00- 41.68	10.89
63 Methyl tert-butyl ether					CAS #: 1634-04-4		
3.941	3.941 (0.746)	73	952644	47.9774	47.977	80.00- 120.00	100.00
3.941	3.941 (0.746)	57	280946			0.00- 58.86	29.49
3.941	3.941 (0.746)	41	267333			0.00- 57.27	28.06
64 trans-1,2-Dichloroethene					CAS #: 156-60-5		
3.969	3.969 (0.751)	98	228110	45.9547	45.955	80.00- 120.00	100.00
3.969	3.969 (0.751)	61	606867			244.59- 304.59	266.04
3.969	3.969 (0.751)	96	360026			129.84- 189.84	157.83
66 Acrylonitrile					CAS #: 107-13-1		
4.067	4.067 (0.770)	52	252748	42.4269	42.427	80.00- 120.00	100.00
4.067	4.067 (0.770)	53	298572			88.50- 148.50	118.13
67 Hexane					CAS #: 110-54-3		
4.179	4.179 (0.791)	57	639618	47.5229	47.523	80.00- 120.00	100.00
4.179	4.179 (0.791)	43	393822			32.99- 92.99	61.57
4.179	4.179 (0.791)	86	82046			0.00- 42.56	12.83
71 1,1-Dichloroethane					CAS #: 75-34-3		
4.459	4.459 (0.844)	63	657313	47.4888	47.489	80.00- 120.00	100.00
4.459	4.459 (0.844)	65	202113			0.76- 60.76	30.75
72 Isopropyl ether					CAS #: 108-20-3		
4.445	4.445 (0.841)	45	1291178	45.4575	45.458	80.00- 120.00	100.00
4.445	4.445 (0.841)	87	291872			0.00- 51.37	22.61
4.445	4.445 (0.841)	59	147939			0.00- 41.09	11.46
73 Vinyl Acetate					CAS #: 108-05-4		
4.501	4.501 (0.852)	86	81281	47.7638	47.764	80.00- 120.00	100.00
4.501	4.501 (0.852)	43	1149311			1391.63-1451.63	1414.00
79 Ethyl-tert-butyl ether					CAS #: 637-92-3		
4.809	4.809 (0.910)	59	1236835	45.1043	45.104	80.00- 120.00	100.00
4.809	4.809 (0.910)	87	417187			3.22- 63.22	33.73
4.809	4.809 (0.910)	41	238976			0.00- 48.12	19.32
84 2,2-Dichloropropane					CAS #: 594-20-7		
5.005	5.005 (0.947)	77	593355	46.0157	46.016	80.00- 120.00	100.00
5.005	5.005 (0.947)	79	190376			2.00- 62.00	32.08
5.005	5.005 (0.947)	97	139027			0.00- 53.36	23.43

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
85 cis-1,2-Dichloroethene					CAS #: 156-59-2		
5.047	5.046 (0.955)	98	223025	45.3248	45.325	80.00- 120.00	100.00
5.047	5.046 (0.955)	96	344352			127.22- 187.22	154.40
5.047	5.046 (0.955)	61	670853			283.85- 343.85	300.80
86 2-Butanone					CAS #: 78-93-3		
5.075	5.074 (0.960)	72	166077	48.3210	48.321	80.00- 120.00	100.00
5.075	5.074 (0.960)	43	1669843			1055.75-1115.75	1005.46
5.075	5.074 (0.960)	57	65345			10.59- 70.59	39.35
87 Ethyl Acetate					CAS #: 141-78-6		
5.089	5.088 (0.963)	45	132907	46.9070	46.907	80.00- 120.00	100.00
5.047	5.046 (0.955)	61	670722			450.31- 510.31	504.66
5.089	5.088 (0.963)	70	79981			30.42- 90.42	60.18
89 Tetrahydrofuran					CAS #: 109-99-9		
5.270	5.270 (0.997)	42	420429	43.3799	43.380	80.00- 120.00	100.00
5.270	5.270 (0.997)	71	140129			2.92- 62.92	33.33
5.270	5.270 (0.997)	72	148745			3.54- 63.54	35.38
92 Chloroform					CAS #: 67-66-3		
5.340	5.340 (1.011)	83	713906	46.8491	46.849	80.00- 120.00	100.00
5.340	5.340 (1.011)	85	462280			34.71- 94.71	64.75
94 Cyclohexane					CAS #: 110-82-7		
5.438	5.438 (1.029)	84	417782	43.3750	43.375	80.00- 120.00	100.00
5.438	5.438 (1.029)	56	614589			120.40- 180.40	147.11
5.438	5.438 (1.029)	41	340291			54.20- 114.20	81.45
96 1,1,1-Trichloroethane					CAS #: 71-55-6		
5.466	5.466 (1.034)	97	771052	45.0161	45.016	80.00- 120.00	100.00
5.466	5.466 (1.034)	99	494729			33.76- 93.76	64.16
97 Carbon Tetrachloride					CAS #: 56-23-5		
5.578	5.578 (1.056)	119	784256	49.7137	49.714	80.00- 120.00	100.00
5.578	5.578 (1.056)	117	819986			73.68- 133.68	104.56
99 1,1-Dichloropropene					CAS #: 563-58-6		
5.620	5.606 (0.909)	110	186609	46.7321	46.732	80.00- 120.00	100.00
5.606	5.606 (0.907)	75	476360			231.09- 291.09	255.27
101 2,2,4-Trimethylpentane					CAS #: 540-84-1		
5.774	5.774 (1.093)	57	1872661	44.4922	44.492	80.00- 120.00	100.00
5.774	5.774 (1.093)	56	577627			1.12- 61.12	30.85
5.774	5.774 (1.093)	41	513022			0.00- 57.49	27.40

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
102 Benzene					CAS #: 71-43-2		
5.788	5.788 (0.937)	78	941107	47.0011	47.001	80.00- 120.00	100.00
5.788	5.788 (0.937)	77	222815			0.00- 53.80	23.68
105 tert-Amyl methyl ether					CAS #: 994-05-8		
5.858	5.858 (0.948)	87	239431	44.8464	44.846	80.00- 120.00	100.00
5.858	5.858 (0.948)	73	939520			365.20- 425.20	392.40
5.858	5.858 (0.948)	55	305804			91.31- 151.31	127.72
106 1,2-Dichloroethane					CAS #: 107-06-2		
5.886	5.886 (0.952)	62	554290	48.0827	48.083	80.00- 120.00	100.00
5.886	5.886 (0.952)	64	171495			1.20- 61.20	30.94
107 Heptane					CAS #: 142-82-5		
5.942	5.942 (0.962)	71	329899	41.8299	41.830	80.00- 120.00	100.00
5.942	5.942 (0.962)	43	650971			179.02- 239.02	197.32
5.942	5.942 (0.962)	57	389374			84.85- 144.85	118.03
110 n-Butanol					CAS #: 71-36-3		
6.348	6.348 (1.027)	56	302937	47.2016	47.202	80.00- 120.00	100.00
6.348	6.348 (1.027)	41	201509			40.21- 100.21	66.52
6.348	6.348 (1.027)	43	163424			25.00- 85.00	53.95
111 Trichloroethene					CAS #: 79-01-6		
6.362	6.362 (1.029)	95	491685	48.9476	48.948	80.00- 120.00	100.00
6.376	6.362 (1.032)	130	519849			74.96- 134.96	105.73
6.376	6.362 (1.032)	97	314369			34.80- 94.80	63.94
114 1,2-Dichloropropane					CAS #: 78-87-5		
6.586	6.586 (1.066)	63	171037	36.8508	36.851	80.00- 120.00	100.00
6.586	6.586 (1.066)	62	129148			52.03- 112.03	75.51
6.586	6.586 (1.066)	41	171194			79.97- 139.97	100.09
116 Methyl Methacrylate					CAS #: 80-62-6		
6.664	6.664 (0.773)	69	347624	50.1938	50.194	80.00- 120.00	100.00
6.664	6.664 (0.773)	41	550212			134.02- 194.02	158.28
6.664	6.664 (0.773)	100	139260			9.54- 69.54	40.06
117 1,4-Dioxane					CAS #: 123-91-1		
6.700	6.700 (1.084)	88	237725	46.8680	46.868	80.00- 120.00	100.00
6.700	6.700 (1.084)	58	233076			55.80- 115.80	98.04
6.700	6.700 (1.084)	57	88815			8.68- 68.68	37.36
118 Dibromomethane					CAS #: 74-95-3		
6.721	6.721 (0.780)	174	436660	56.6137	56.614	80.00- 120.00	100.00
6.721	6.714 (0.780)	93	426214			67.27- 127.27	97.61

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
118 Dibromomethane (continued)							
6.721	6.721 (0.780)	95	355021			50.92- 110.92	81.30
122 Bromodichloromethane					CAS #: 75-27-4		
6.836	6.836 (1.106)	83	748581	44.4835	44.484	80.00- 120.00	100.00
6.836	6.836 (1.106)	85	482558			34.31- 94.31	64.46
126 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.208	7.208 (1.166)	75	558857	44.6808	44.681	80.00- 120.00	100.00
7.208	7.208 (1.166)	77	178131			1.42- 61.42	31.87
7.208	7.208 (1.166)	39	376274			38.56- 98.56	67.33
127 Methylcyclohexane					CAS #: 108-87-2		
6.460	6.460 (1.045)	83	588823	43.8355	43.836	80.00- 120.00	100.00
6.460	6.460 (1.045)	98	273498			15.60- 75.60	46.45
6.460	6.460 (1.045)	55	592527			78.53- 138.53	100.63
131 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.316	7.316 (1.184)	58	346326	40.7216	40.722	80.00- 120.00	100.00
7.316	7.316 (1.184)	43	885034			231.30- 291.30	255.55
7.316	7.316 (1.184)	85	133956			8.94- 68.94	38.68
137 Toluene					CAS #: 108-88-3		
7.437	7.437 (1.203)	91	1216479	45.2781	45.278	80.00- 120.00	100.00
7.445	7.437 (1.205)	92	698293			28.30- 88.30	57.40
136 Octane					CAS #: 111-65-9		
7.445	7.444 (1.205)	57	367969	41.1655	41.166	80.00- 120.00	100.00
7.445	7.444 (1.205)	85	365301			67.11- 127.11	99.27
7.445	7.444 (1.205)	43	847745			214.21- 274.21	230.38
139 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
7.688	7.688 (0.892)	75	511898	48.2972	48.297	80.00- 120.00	100.00
7.688	7.688 (0.892)	77	163426			2.15- 62.15	31.93
7.688	7.688 (0.892)	39	334027			36.09- 96.09	65.25
141 1,1,2-Trichloroethane					CAS #: 79-00-5		
7.846	7.846 (0.910)	97	393681	48.2973	48.297	80.00- 120.00	100.00
7.846	7.846 (0.910)	99	245912			31.62- 91.62	62.46
7.846	7.846 (0.910)	83	342339			56.35- 116.35	86.96
142 Tetrachloroethene					CAS #: 127-18-4		
7.881	7.881 (0.914)	166	583842	51.7877	51.788	80.00- 120.00	100.00
7.881	7.881 (0.914)	129	448400			48.71- 108.71	76.80
7.881	7.874 (0.914)	131	433649			46.55- 106.55	74.28

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
143 2-Hexanone					CAS #: 591-78-6		
8.003	8.003 (0.929)	58	441646	47.1702	47.170	80.00- 120.00	100.00
8.003	8.003 (0.929)	43	800916			157.91- 217.91	181.35
8.003	8.003 (0.929)	100	83430			0.00- 47.86	18.89
144 1,3-Dichloropropane					CAS #: 142-28-9		
7.989	7.989 (1.293)	76	521974	40.7204	40.720	80.00- 120.00	100.00
7.989	7.989 (1.293)	41	548267			82.96- 142.96	105.04
7.989	7.989 (1.293)	78	170187			2.55- 62.55	32.60
146 Dibromochloromethane					CAS #: 124-48-1		
8.154	8.154 (0.946)	129	813244	52.5902	52.590	80.00- 120.00	100.00
8.154	8.154 (0.946)	127	630984			47.77- 107.77	77.59
148 1,2-Dibromoethane (EDB)					CAS #: 106-93-4		
8.268	8.261 (0.959)	107	637605	50.3703	50.370	80.00- 120.00	100.00
8.268	8.261 (0.959)	109	602701			64.60- 124.60	94.53
151 1-Bromo-2-Chloroethane					CAS #: 107-04-0		
7.115	7.115 (1.151)	63	745772	45.9226	45.922	80.00- 120.00	100.00
7.122	7.115 (1.152)	65	232876			0.95- 60.95	31.23
7.122	7.122 (1.152)	144	80852			0.00- 40.45	10.84
154 Chlorobenzene					CAS #: 108-90-7		
8.641	8.641 (1.002)	112	964821	49.0550	49.055	80.00- 120.00	100.00
8.641	8.641 (1.002)	114	310196			2.13- 62.13	32.15
8.641	8.641 (1.002)	77	512157			26.35- 86.35	53.08
155 Ethyl Benzene					CAS #: 100-41-4		
8.691	8.684 (1.008)	106	487590	49.5777	49.578	80.00- 120.00	100.00
8.684	8.684 (1.007)	91	1509744			282.48- 342.48	309.63
156 Nonane					CAS #: 111-84-2		
8.705	8.705 (1.010)	43	824864	43.2718	43.272	80.00- 120.00	100.00
8.705	8.705 (1.010)	57	785976			59.52- 119.52	95.29
8.705	8.705 (1.010)	85	269379			0.00- 59.76	32.66
157 1,1,1,2-Tetrachloroethane					CAS #: 630-20-6		
8.712	8.712 (1.011)	131	489317	45.2048	45.205	80.00- 120.00	100.00
8.712	8.712 (1.011)	117	333273			38.22- 98.22	68.11
8.712	8.712 (1.011)	95	181504			7.54- 67.54	37.09
158 m,p-Xylene					CAS #: 108-38-3		
8.784	8.784 (1.019)	106	596573	48.7581	48.758	80.00- 120.00	100.00
8.784	8.784 (1.019)	91	1193910			171.36- 231.36	200.13

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
164 o-Xylene					CAS #: 95-47-6		
9.128	9.121 (1.059)	106	552333	47.5514	47.551	80.00- 120.00	100.00
9.121	9.121 (1.058)	91	1168785			179.99- 239.99	211.61
165 Styrene					CAS #: 100-42-5		
9.149	9.149 (1.061)	104	959229	47.6653	47.665	80.00- 120.00	100.00
9.149	9.142 (1.061)	78	456053			19.09- 79.09	47.54
167 Bromoform					CAS #: 75-25-2		
9.350	9.350 (1.085)	173	767077	52.3134	52.313	80.00- 120.00	100.00
9.350	9.350 (1.085)	171	396410			21.45- 81.45	51.68
168 Cumene					CAS #: 98-82-8		
9.414	9.414 (1.092)	105	1762729	47.9992	47.999	80.00- 120.00	100.00
9.414	9.414 (1.092)	120	483117			0.00- 56.99	27.41
9.407	9.407 (1.091)	51	199495			0.00- 41.77	11.32
169 Cyclohexanone					CAS #: 108-94-1		
9.579	9.579 (1.111)	55	482447	41.7451	41.745	80.00- 120.00	100.00
9.579	9.579 (1.111)	98	193707			9.22- 69.22	40.15
9.579	9.579 (1.111)	42	335390			42.60- 102.60	69.52
175 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
9.737	9.737 (1.130)	83	879560	48.3069	48.307	80.00- 120.00	100.00
9.737	9.737 (1.130)	85	575212			34.35- 94.35	65.40
177 Bromobenzene					CAS #: 108-86-1		
9.737	9.730 (1.130)	156	584952	51.2384	51.238	80.00- 120.00	100.00
9.737	9.737 (1.130)	158	567706			67.29- 127.29	97.05
9.730	9.730 (1.129)	77	890773			132.41- 192.41	152.28
178 Propylbenzene					CAS #: 103-65-1		
9.758	9.758 (1.132)	91	2108947	49.2168	49.217	80.00- 120.00	100.00
9.758	9.758 (1.132)	120	504184			0.00- 53.77	23.91
9.758	9.758 (1.132)	105	77910			0.00- 33.81	3.69
179 1,2,3-Trichloropropane					CAS #: 96-18-4		
9.787	9.787 (1.135)	110	270389	49.2983	49.298	80.00- 120.00	100.00
9.787	9.787 (1.135)	75	905727			285.00- 345.00	334.97
9.787	9.787 (1.135)	61	231047			54.06- 114.06	85.45
181 trans-1,4-Dichloro-2-butene					CAS #: 110-57-6		
9.787	9.787 (1.135)	53	282527	65.0975	65.098	80.00- 120.00	100.00
9.787	9.787 (1.135)	89	146003			21.19- 81.19	51.68
9.787	9.787 (1.135)	75	905727			372.45- 432.45	320.58

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
182 Decane					CAS #: 124-18-5		
9.808	9.808 (1.138)	57	990780	44.7172	44.717	80.00- 120.00	100.00
9.808	9.808 (1.138)	71	348342			4.13- 64.13	35.16
9.816	9.808 (1.139)	142	49590			0.00- 34.73	5.01
183 4-Ethyltoluene					CAS #: 622-96-8		
9.851	9.851 (1.143)	120	546566	49.2090	49.209	80.00- 120.00	100.00
9.851	9.851 (1.143)	105	1779863			296.79- 356.79	325.64
184 2-Chlorotoluene					CAS #: 95-49-8		
9.873	9.873 (1.145)	126	453886	50.2928	50.293	80.00- 120.00	100.00
9.873	9.873 (1.145)	91	1599401			336.29- 396.29	352.38
9.873	9.873 (1.145)	65	295847			38.83- 98.83	65.18
185 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
9.901	9.901 (1.149)	120	757607	48.5633	48.563	80.00- 120.00	100.00
9.901	9.901 (1.149)	105	1526556			176.40- 236.40	201.50
188 alpha Methyl Styrene					CAS #: 98-83-9		
10.102	10.102 (1.172)	118	725874	45.4313	45.431	80.00- 120.00	100.00
10.102	10.102 (1.172)	103	407059			26.64- 86.64	56.08
189 tert-Butylbenzene					CAS #: 98-06-6		
10.174	10.174 (1.180)	119	1364736	47.5456	47.546	80.00- 120.00	100.00
10.174	10.174 (1.180)	134	351786			0.00- 54.82	25.78
10.174	10.174 (1.180)	91	885899			36.92- 96.92	64.91
190 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
10.224	10.224 (1.186)	105	1514245	49.2244	49.224	80.00- 120.00	100.00
10.224	10.224 (1.186)	120	720286			16.58- 76.58	47.57
192 sec-Butylbenzene					CAS #: 135-98-8		
10.360	10.360 (1.202)	134	456416	49.2292	49.229	80.00- 120.00	100.00
10.360	10.353 (1.202)	105	2189121			451.53- 511.53	479.63
10.360	10.353 (1.202)	91	342617			46.48- 106.48	75.07
194 p-Cymene					CAS #: 99-87-6		
10.467	10.467 (1.214)	119	1948184	50.1773	50.177	80.00- 120.00	100.00
10.467	10.467 (1.214)	134	520411			0.00- 56.79	26.71
10.467	10.467 (1.214)	91	450003			0.00- 54.04	23.10
195 1,3-Dichlorobenzene					CAS #: 541-73-1		
10.518	10.517 (1.220)	146	1082245	51.7829	51.783	80.00- 120.00	100.00
10.518	10.517 (1.220)	148	690215			33.53- 93.53	63.78
10.518	10.517 (1.220)	111	426236			11.05- 71.05	39.38

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
196 1,4-Dichlorobenzene					CAS #: 106-46-7		
10.596	10.596 (1.229)	146	1086417	50.4666	50.466	80.00- 120.00	100.00
10.596	10.596 (1.229)	148	694528			33.47- 93.47	63.93
10.596	10.596 (1.229)	111	416148			9.65- 69.65	38.30
199 alpha-Chlorotoluene					CAS #: 100-44-7		
10.711	10.711 (1.243)	91	1396522	47.1819	47.182	80.00- 120.00	100.00
10.711	10.711 (1.243)	126	315762			0.00- 52.04	22.61
201 Undecane					CAS #: 1120-21-4		
10.804	10.804 (1.253)	57	1188679	45.5273	45.527	80.00- 120.00	100.00
10.804	10.804 (1.253)	43	999871			55.86- 115.86	84.12
202 Butylbenzene					CAS #: 104-51-8		
10.818	10.818 (1.255)	134	511967	50.8561	50.856	80.00- 120.00	100.00
10.818	10.818 (1.255)	91	1825523			331.99- 391.99	356.57
10.818	10.818 (1.255)	92	938161			161.01- 221.01	183.25
204 1,2-Dichlorobenzene					CAS #: 95-50-1		
10.926	10.926 (1.268)	146	1043847	51.6857	51.686	80.00- 120.00	100.00
10.926	10.926 (1.268)	148	662012			33.23- 93.23	63.42
10.919	10.919 (1.267)	111	421427			12.36- 72.36	40.37
206 1,2-Dibromo-3-chloropropane					CAS #: 96-12-8		
11.606	11.606 (1.347)	157	622835	53.1862	53.186	80.00- 120.00	100.00
11.606	11.599 (1.347)	75	515889			58.96- 118.96	82.83
11.606	11.606 (1.347)	155	482139			47.82- 107.82	77.41
207 Dodecane					CAS #: 112-40-3		
11.714	11.714 (1.359)	57	1279263	57.9435	57.943	80.00- 120.00	100.00
11.714	11.714 (1.359)	43	1015447			50.85- 110.85	79.38
213 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
12.301	12.301 (1.427)	180	949246	66.1737	66.174	80.00- 120.00	100.00
12.301	12.301 (1.427)	182	905084			65.40- 125.40	95.35
215 Hexachlorobutadiene					CAS #: 87-68-3		
12.387	12.387 (1.437)	225	734886	67.8202	67.820	80.00- 120.00	100.00
12.387	12.387 (1.437)	223	463511			33.70- 93.70	63.07
216 Naphthalene					CAS #: 91-20-3		
12.552	12.559 (1.456)	128	218647	4.99156	4.992	80.00- 120.00	100.00
12.552	12.559 (1.456)	127	28980			0.00- 43.10	13.25
222 1,2,3-Trichlorobenzene					CAS #: 87-61-6		
12.803	12.810 (1.485)	180	895119	68.1917	68.192	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
222 1,2,3-Trichlorobenzene (continued)							
12.803	12.810 (1.485)	182	853575			65.67- 125.67	95.36
12.803	12.802 (1.485)	145	311081			6.02- 66.02	34.75

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INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd3.i
Lab File ID: 3072705a.d
Lab Smp Id: LCSD
Analysis Type: VOA
Quant Type: ISTD
Operator: LD
Method File: /chem/msd3.i/27JUL21.b/321q0622a.m
Misc Info: 50ppbv (100ppbv)

Calibration Date: 27-JUL-2021
Calibration Time: 11:36
Client Smp ID: LCSD
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	238986	143392	334580	243047	1.70
108 1,4-Difluorobenze	785289	471173	1099405	877445	11.74
153 Chlorobenzene-d5	683596	410158	957034	719626	5.27

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.28	4.95	5.61	5.28	0.00
108 1,4-Difluorobenze	6.18	5.85	6.51	6.18	0.00
153 Chlorobenzene-d5	8.61	8.28	8.94	8.62	0.08

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

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RECOVERY REPORT

Client Name: Client SDG: 27JUL21
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: LCSD Client Smp ID: LCSD
Level: LOW Operator: LD
Data Type: MS DATA SampleType: LCSD
SpikeList File: AT12.spk Quant Type: ISTD
Sublist File: AT20LCS_new.sub
Method File: /chem/msd3.i/27JUL21.b/321q0622a.m
Misc Info: 50ppbv (100ppbv)

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
5 Propylene	50.000	49.771	99.54	70-130
8 Freon 12	50.000	52.186	104.37	70-130
10 Freon 114	50.000	53.798	107.60	70-130
15 Chloromethane	50.000	57.988	115.98	70-130
18 Butane	50.000	53.668	107.34	70-130
19 Vinyl Chloride	50.000	53.686	107.37	70-130
20 1,3-Butadiene	50.000	48.263	96.53	70-130
24 Bromomethane	50.000	51.293	102.59	70-130
30 Chloroethane	50.000	51.811	103.62	70-130
31 Isopentane	50.000	48.948	97.90	70-130
33 Freon 11	50.000	54.724	109.45	70-130
39 Ethanol	58.000	43.067	74.25	70-130
43 Freon 113	50.000	52.095	104.19	70-130
44 1,1-Dichloroethen	50.000	48.744	97.49	70-130
47 Acetone	50.000	49.825	99.65	70-130
48 Carbon Disulfide	50.000	52.609	105.22	70-130
52 2-Propanol	50.000	51.090	102.18	70-130
54 3-Chloropropene	50.000	47.864	95.73	70-130
59 Methylene Chlorid	50.000	49.646	99.29	70-130
63 Methyl tert-butyl	50.000	47.977	95.95	70-130
64 trans-1,2-Dichlor	50.000	45.955	91.91	70-130
67 Hexane	50.000	47.523	95.05	70-130
71 1,1-Dichloroethan	50.000	47.489	94.98	70-130
73 Vinyl Acetate	50.000	47.764	95.53	70-130
85 cis-1,2-Dichloroe	50.000	45.325	90.65	70-130
86 2-Butanone	50.000	48.321	96.64	70-130
89 Tetrahydrofuran	50.000	43.380	86.76	70-130
92 Chloroform	50.000	46.849	93.70	70-130
94 Cyclohexane	50.000	43.375	86.75	70-130
96 1,1,1-Trichloroet	50.000	45.016	90.03	70-130
97 Carbon Tetrachlor	50.000	49.714	99.43	70-130
101 2,2,4-Trimethylpe	50.000	44.492	88.98	70-130
102 Benzene	50.000	47.001	94.00	70-130

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
106 1,2-Dichloroethan	50.000	48.083	96.17	70-130
107 Heptane	50.000	41.830	83.66	70-130
111 Trichloroethene	50.000	48.948	97.90	70-130
127 Methylcyclohexane	50.000	43.836	87.67	70-130
114 1,2-Dichloropropa	50.000	36.851	73.70	70-130
117 1,4-Dioxane	50.000	46.868	93.74	70-130
122 Bromodichlorometh	50.000	44.484	88.97	70-130
126 cis-1,3-Dichlorop	50.000	44.681	89.36	70-130
131 4-Methyl-2-pentan	50.000	40.722	81.44	70-130
137 Toluene	50.000	45.278	90.56	70-130
139 trans-1,3-Dichlor	50.000	48.297	96.59	70-130
141 1,1,2-Trichloroet	50.000	48.297	96.59	70-130
142 Tetrachloroethene	50.000	51.788	103.58	70-130
143 2-Hexanone	50.000	47.170	94.34	70-130
146 Dibromochlorometh	50.000	52.590	105.18	70-130
148 1,2-Dibromoethane	50.000	50.370	100.74	70-130
154 Chlorobenzene	50.000	49.055	98.11	70-130
155 Ethyl Benzene	50.000	49.578	99.16	70-130
158 m,p-Xylene	50.000	48.758	97.52	70-130
164 o-Xylene	50.000	47.551	95.10	70-130
165 Styrene	50.000	47.665	95.33	70-130
167 Bromoform	50.000	52.313	104.63	70-130
168 Cumene	50.000	47.999	96.00	70-130
175 1,1,2,2-Tetrachlo	50.000	48.307	96.61	70-130
178 Propylbenzene	50.000	49.217	98.43	70-130
183 4-Ethyltoluene	50.000	49.209	98.42	70-130
185 1,3,5-Trimethylbe	50.000	48.563	97.13	70-130
190 1,2,4-Trimethylbe	50.000	49.224	98.45	70-130
195 1,3-Dichlorobenze	50.000	51.783	103.57	70-130
196 1,4-Dichlorobenze	50.000	50.466	100.93	70-130
199 alpha-Chlorotolue	50.000	47.182	94.36	70-130
204 1,2-Dichlorobenze	50.000	51.686	103.37	70-130
213 1,2,4-Trichlorobe	58.000	66.174	114.09	70-130
215 Hexachlorobutadie	58.000	67.820	116.93	70-130
216 Naphthalene	5.800	4.992	86.06	60-140

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 104 1,2-Dichloroethan	25.000	24.852	99.41	70-130
$ 134 Toluene-d8	25.000	23.169	92.68	70-130
$ 170 4-Bromofluorobenz	25.000	24.841	99.36	70-130

Data File: /chem/msd3.i/27JUL21.b/3072705a.d

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Date : 27-JUL-2021 12:40

Client ID: LCSD

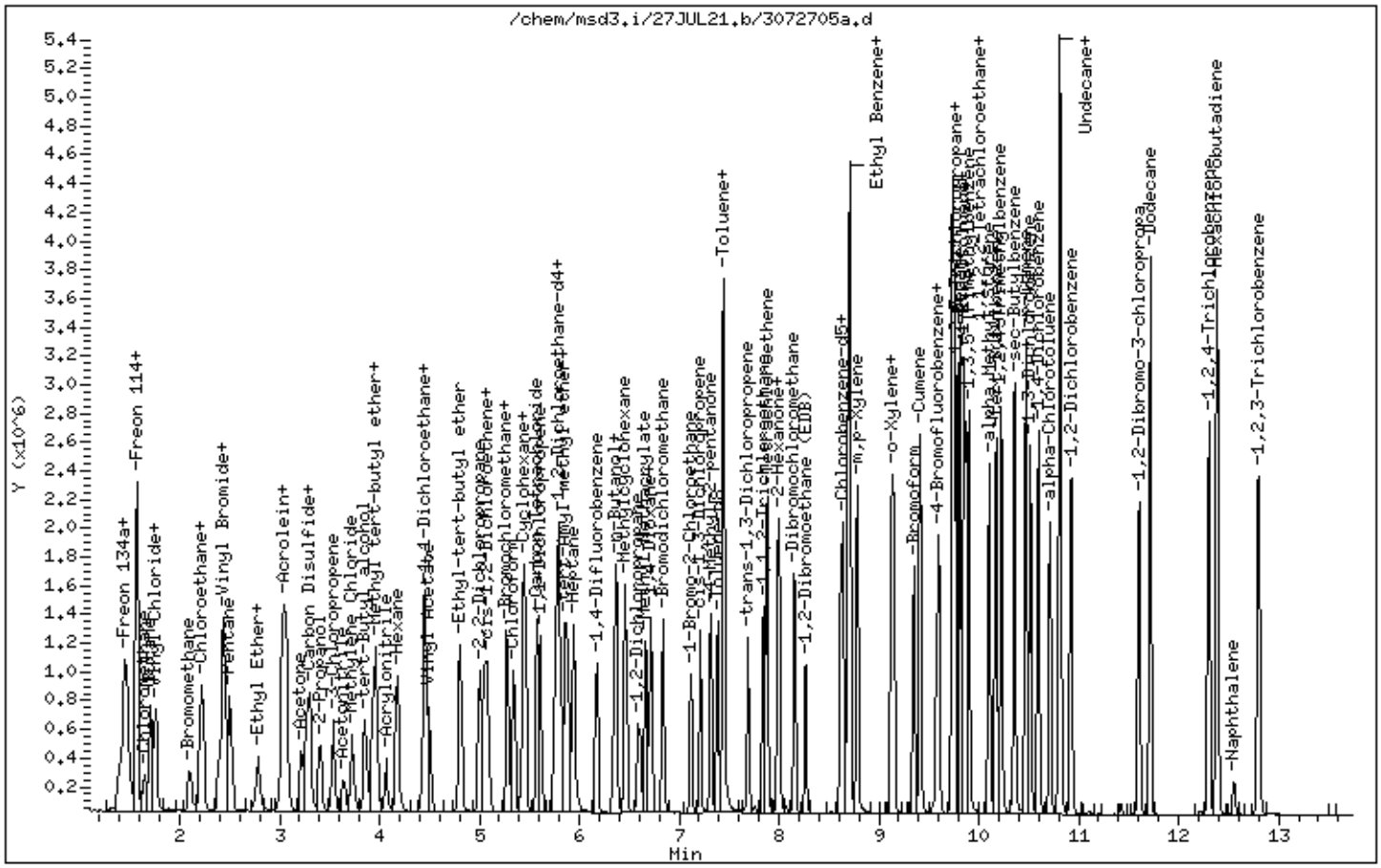
Instrument: msd3.i

Sample Info: 100mL 3018-2121A

Operator: LD

Column phase: RTX-624

Column diameter: 0.25



MSD3

							Method TO-15/TO-14						
BFB Tune Verification: (246528/264832) * 100 =93.08%							SOP# 6						
	3234-42	Exp. Date:	9/22/2021			Vacuum:	NA						
BCM	263983			Surrogate # 3234-42		Exp Date:	9/22/2021				Exp Date		
1,4-DFB	833448			CCV	3018-2071A	Exp Date:	9/2/2021	LCS	3018-2121A		Exp Date	9/22/2021	
CB-d5	741338			CCV SP 1 #	NA	Exp Date:	NA	LCS Sp #1	NA		Exp Date	NA	
				CCV SP 2 #	NA	Exp Date:	NA	LCS Sp #2	NA		Exp Date	NA	
				CCV SP 3#	NA	Exp Date:	NA	LCS Sp #3	NA		Exp Date	NA	
Verified CCV vs. ICAL midpoint (-40%): LD				CCV SP 4#	NA	Exp Date:	NA						
Method: 321q0622a.m													

Use	File #	Enter/Scan Sample IDs	Canister#	Cart Pos.	Pressure	Amount	DF	Verify Load	Loaded Init.	Date Analyzed	Time	Review Init	Comments
√	3072601	BFB Tune Check	3234-42	8	36ng	200mL	1.00	LD	LD	07/26/21	0933	LD	Exp. 9/22/21; leg validation
√	3072602	CCV	3018-2071A	13	50ppbv (100ppbv)	100mL	1.00	LD	LD	07/26/21	1010	LD	Exp. 9/2/21; 1 out AT-20. Naph @ 38%
√	3072603	LCS	3018-2121A	14	50ppbv (100ppbv)	100mL	1.00	LD	LD	07/26/21	1047	LD	Exp. 9/22/21; 1 out AT-12, 1 out AT-20
X	3072604	LCSD	3018-2121A	14	50ppbv (100ppbv)	100mL	1.00	LD	LD	07/26/21	1114	LD	Exp. 9/22/21; IS out
√	3072605	CCVsp	3018-2013	12	50ppbv (200ppbv)	50mL	1.00	LD	LD	07/26/21	1142	LD	Exp. 8/04/21; 0 out
√	3072606	LCSD	3018-2121A	14	50ppbv (100ppbv)	100mL	1.00	LD	LD	07/26/21	1220	LD	Exp. 9/22/21; RPD ok
√	3072607	TPHg Calib	3234-26A	11	500ppbv (625ppbv)	160mL	1.00	LD	LD	07/26/21	1303	LD	Exp. 9/3/21
√	3072608	Lab Blank	34353	11	Humid	200mL	1.00	LD	LD	07/26/21	1416	LD	leg validation
√	3072609	2107284-01A	N5590	1	5.7 Hg->9.9 psi	200mL	2.07	DF	LD	07/26/21	1516	DF	
√	3072610	2107284-02A	F1981	2	5.9 Hg->10.1 psi	200mL	2.10	DF	LD	07/26/21	1545	DF	
√	3072611	2107284-03A	N3412	3	6.3 Hg->9.8 psi	200mL	2.11	DF	LD	07/26/21	1614	DF	
√	3072612	2107284-04A	O1060	4	7.8 Hg->10 psi	200mL	2.27	DF	LD	07/26/21	1643	DF	
√	3072613	2107284-05A	N3824	5	5.7 Hg->9.8 psi	200mL	2.06	DF	LD	07/26/21	1713	DF	
√	3072614	2107284-06A	34000754	6	6.1 Hg->9.8 psi	200mL	2.09	DF	LD	07/26/21	1742	DF	
√	3072615	2107284-07A	1L1747	7	8.6 Hg->9.9 psi	200mL	2.34	DF	LD	07/26/21	1811	DF	
√	3072616	2107284-08A	3009	8	8.4 Hg->9.9 psi	200mL	2.32	DF	LD	07/26/21	1840	DF	duped
√	3072617	2107284-09A	1L1812	9	9 Hg->9.6 psi	200mL	2.36	DF	LD	07/26/21	1909	DF	
√	3072618	2107284-10A	N2667	1	8.2 Hg->10 psi	200mL	2.31	DF	DF	07/26/21	2227	DF	did not dup needs confirmation
√	3072619	2107284-11A	O0849	2	10.2 Hg->9.9 psi	200mL	2.54	DF	DF	07/26/21	2256	LD	
√	3072620	2107284-12A	33637	3	9.8 Hg->10 psi	200mL	2.50	LD	DF	07/26/21	2326	LD	
√	3072621	2107284-13A	1L2705	4	7.8 Hg->9.9 psi	200mL	2.26	LD	DF	07/26/21	2355	LD	
√	3072622	2107284-14A	N3851	5	8.4 Hg->9.9 psi	200mL	2.32	LD	DF	07/27/21	0024	LD	duped
√	3072623	2107284-15A	N2640	6	9 Hg->10 psi	200mL	2.40	LD	DF	07/27/21	0053	LD	
√	3072624	2107284-16A	O0882	7	6.5 Hg->9.9 psi	200mL	2.14	LD	DF	07/27/21	0122	LD	
√	3072625	2107284-17A	N1981	8	5.5 Hg->9.8 psi	200mL	2.04	LD	DF	07/27/21	0151	LD	"E" 1,1-DFA>400
X	3072626	2107284-18A	O0825	9	4.9 Hg->10 psi	200mL	2.01	LD	DF	07/27/21	0221	LD	possible carryover
√	3072627	2107284-19A	N3462	10	7.6 Hg->10 psi	200mL	2.25	LD	DF	07/27/21	0250	LD	1,1-DFA ND
√	3072628	2107284-20A	N1995	11	9.2 Hg->10 psi	200mL	2.42	LD	DF	07/27/21	0319	LD	
C	3072629	2107284-10A	N2667	1	8.2 Hg->10 psi	200mL	2.31	LD	LD	07/27/21	0737	LD	confirmation
√	3072630	2107284-18A	O0825	9	4.9 Hg->10 psi	200mL	2.01	LD	LD	07/27/21	0806	LD	

7/28/21

MSD3

							Method TO-15/TO-14					
BFB Tune Verification: (204544/218304) * 100 =93.70%							SOP# 6					
	3234-42	Exp. Date:	9/22/2021			Vacuum:	NA					
BCM	238986			Surrogate # 3234-42		Exp Date:	9/22/2021				Exp Date	
1,4-DFB	785289			CCV	3018-2071A	Exp Date:	9/2/2021	LCS	3018-2121A	Exp Date	9/22/2021	
CB-d5	683596			CCV SP 1 #	NA	Exp Date:	NA	LCS Sp #1	NA	Exp Date	NA	
				CCV SP 2 #	NA	Exp Date:	NA	LCS Sp #2	NA	Exp Date	NA	
				CCV SP 3#	NA	Exp Date:	NA	LCS Sp #3	NA	Exp Date	NA	
Verified CCV vs. ICAL midpoint (-40%): LD				CCV SP 4#	NA	Exp Date:	NA					
Method: 321q0622a.m												

Use	File #	Enter/Scan Sample IDs	Canister#	Cart Pos.	Pressure	Amount	DF	Verify Load	Loaded Init.	Date Analyzed	Time	Review Init	Comments
√	3072702	BFB Tune Check	3234-42	8	36ng	200mL	1.00	LD	LD	07/27/21	1102	LD	Exp. 9/22/21;
√	3072703	CCV	3018-2071A	13	50ppbv (100ppbv)	100mL	1.00	LD	LD	07/27/21	1136	LD	Exp. 9/2/21; 1 out AT-20. Naph @ 37%
√	3072704	LCS	3018-2121A	14	50ppbv (100ppbv)	100mL	1.00	LD	LD	07/27/21	1213	LD	Exp. 9/22/21; 1 out AT-20
√	3072705	LCSD	3018-2121A	14	50ppbv (100ppbv)	100mL	1.00	LD	LD	07/27/21	1240	LD	Exp. 9/22/21; 1 out AT-20 RPD
√	3072706	CCVsp	3018-2013	12	50ppbv (200ppbv)	50mL	1.00	LD	LD	07/27/21	1307	LD	Exp. 8/04/21; 0 out
X	3072707	System Blank	34353	12	Humid	200mL	1.00	LD	LD	07/27/21	1433	LD	Chemstation froze after loading TPHg Calib, double IS
√	3072708	TPHg Calib	3234-26A	11	500ppbv (625ppbv)	160mL	1.00	LD	LD	07/27/21	1501	LD	Exp. 9/3/21
√	3072709	Lab Blank	34353	11	Humid	200mL	1.00	LD	LD	07/27/21	1547	LD	
√	3072710	2107284-21A	O0853	1	7.1 Hg->10 psi	200mL	2.20	kk	LD	07/27/21	1701	kk	
√	3072711	2107284-22A	O0775	2	7.3 Hg->9.9 psi	200mL	2.21	kk	LD	07/27/21	1730	kk	E" 1,1-DFA >400ppbv
√	3072712	2107284-23A	34001086cl	3	6.3 Hg->10 psi	200mL	2.13	kk	LD	07/27/21	1800	kk	confirmation needed
√	3072713	2107284-24A	N2619	4	6.9 Hg->10 psi	200mL	2.18	kk	LD	07/27/21	1829	kk	
√	3072714	2107284-25A	O0732	5	6.7 Hg->9.9 psi	200mL	2.15	kk	LD	07/27/21	1858	kk	
√	3072715	2107284-26A	S1120	6	6.5 Hg->10.1 psi	200mL	2.15	kk	LD	07/27/21	1927	kk	
√	3072716	2107362-04A	1028	7	6.5 Hg->10.1 psi	140mL	3.08	kk	LD	07/27/21	1955	kk	dil tc
√	3072717	2107362-03A	S0605	8	6.5 Hg->10.1 psi	100mL	8620	kk	LD	07/27/21	2022	kk	Can dil #AT9302 2000X, DF=8620, dil tc. "E"1,1-DFA <400ppbv
√	3072718	2107470-01A	O0887	10	5.5 Hg->10 psi	200mL	2.06	kk	LD	07/27/21	2052	kk	high matrix
X	3072719	System Blank	34353	2	Humid	200mL	1.00	kk	kk	07/27/21	2138	kk	leg validation.Matrix Carryover. 1,1-DFA ND
√	3072720	System Blank	34353	1	Humid	200mL	1.00	kk	kk	07/27/21	2236	kk	
C	3072721	2107284-23AX	34001086cl	3	6.3 Hg->10 psi	200mL	2.13	LD	kk	07/27/21	2347	LD	confirmation
√	3072722	2107361-01A	O0252	1	5.0 Hg->10 psi	200mL	2.02	LD	kk	07/28/21	0016	LD	Green dot, Pi: 7.3 psi-> Pf: 3.9 psi

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US32TAR1

Data file : /chem/msd3.i/22JUN21.b/3062204.d
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 22-JUN-2021 14:28
Operator : LD Inst ID: msd3.i
Smp Info : 200mL #3234-42;BFB;BFB
Misc Info : 36ng
Comment :
Method : /chem/msd3.i/22JUN21.b/bfb30.m
Meth Date : 03-Sep-2019 11:54 u7js Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 3 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Sample Matrix: WATER
Processing Host: us32tar1

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vf	1.00000	Volumetric correction factor
Vi	1.00000	Injection Volume

Cpnd Variable Local Compound Variable

RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
9.601	9.729	-0.128	95	429760			100.00- 100.00	100.00
9.601	9.729	-0.128	50	101149			8.00- 40.00	23.54
9.601	9.729	-0.128	75	210688			30.00- 66.00	49.02
9.601	9.729	-0.128	96	28103			5.00- 9.00	6.54
9.601	9.729	-0.128	173	2948			0.00- 1.99	0.86
9.601	9.729	-0.128	174	343594			50.01- 120.00	79.95
9.601	9.729	-0.128	175	25293			4.00- 9.00	7.36
9.601	9.729	-0.128	176	322005			93.00- 101.00	93.72
9.601	9.729	-0.128	177	20616			5.00- 9.00	6.40

Data File: /chem/msd3.i/22JUN21.b/3062204.d

Date : 22-JUN-2021 14:28

Client ID: BFB

Instrument: msd3.i

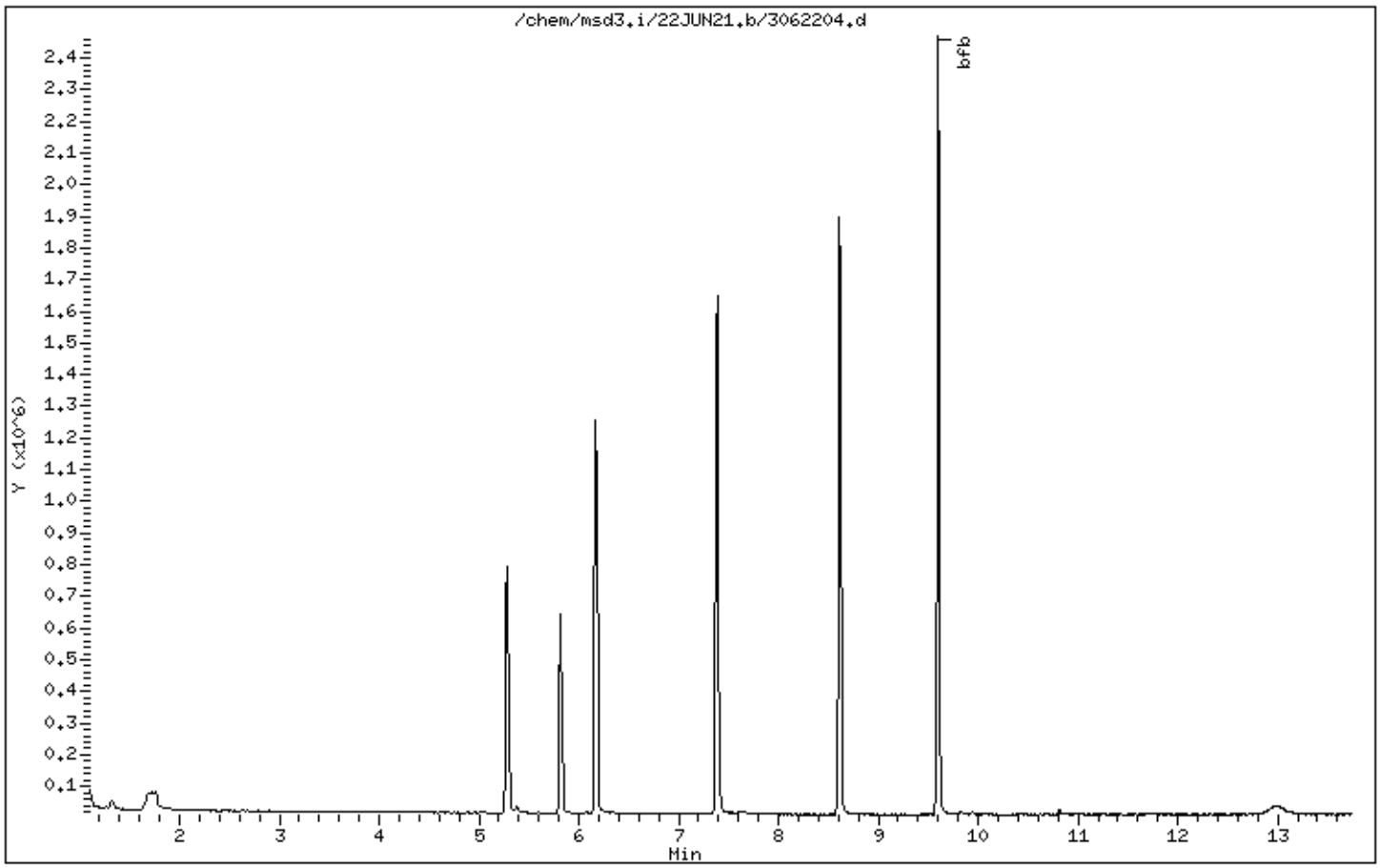
Sample Info: 200mL #3234-42;BFB;BFB

Volume Injected (uL): 1.0

Operator: LD

Column phase:

Column diameter: 2.00



Data File: /chem/msd3.i/22JUN21.b/3062204.d

Date : 22-JUN-2021 14:28

Client ID: BFB

Instrument: msd3.i

Sample Info: 200mL #3234-42;BFB;BFB

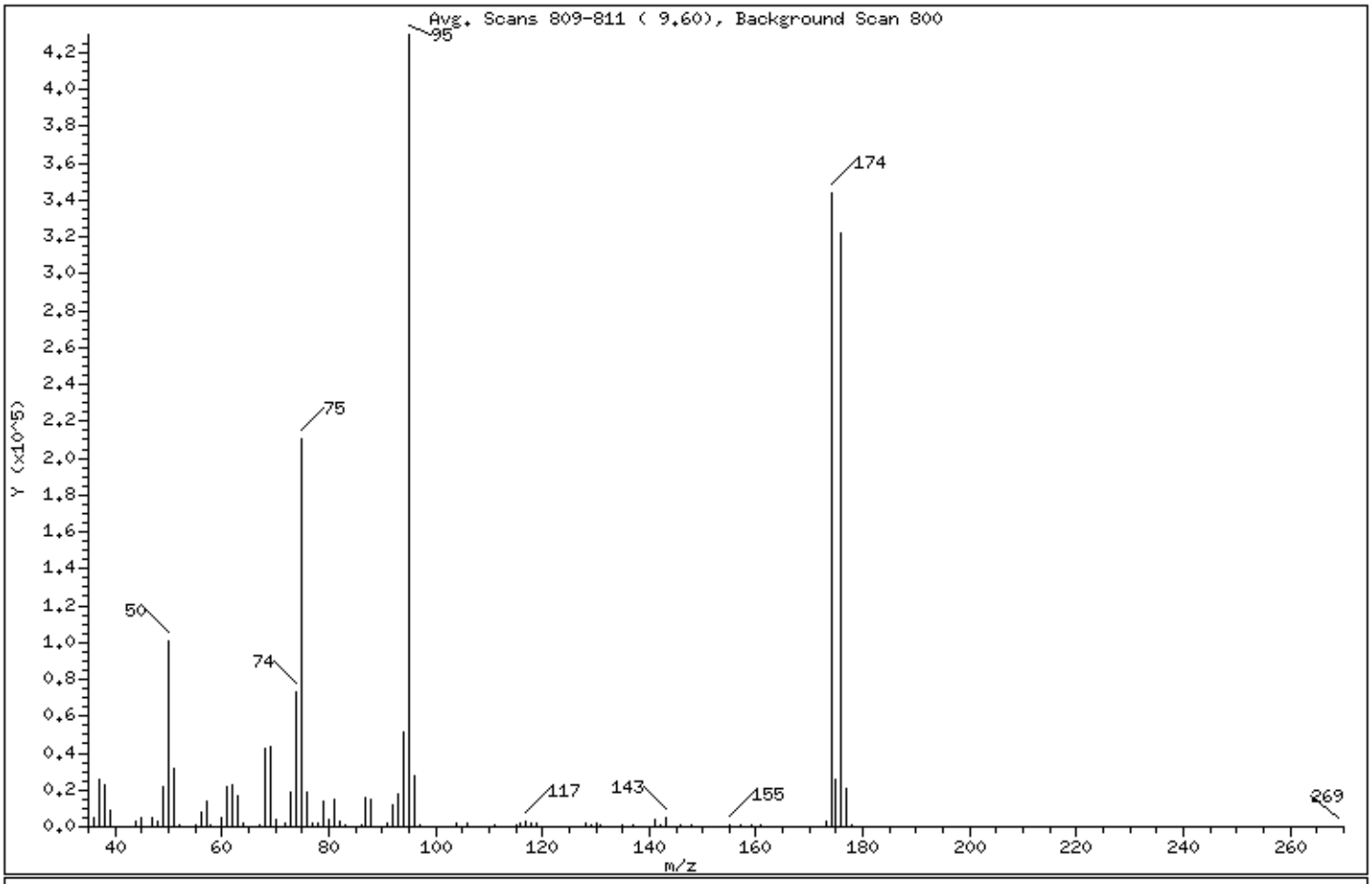
Volume Injected (uL): 1.0

Operator: LD

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	23.54
75	30.00 - 66.00% of mass 95	49.02
96	5.00 - 9.00% of mass 95	6.54
173	Less than 1.99% of mass 174	0.69 (0.86)
174	50.01 - 120.00% of mass 95	79.95
175	4.00 - 9.00% of mass 174	5.89 (7.36)
176	93.00 - 101.00% of mass 174	74.93 (93.72)
177	5.00 - 9.00% of mass 176	4.80 (6.40)

Date : 22-JUN-2021 14:28

Client ID: BFB Instrument: msd3.i

Sample Info: 200mL #3234-42;BFB;BFB

Volume Injected (uL): 1.0 Operator: LD

Column phase: Column diameter: 2.00

Data File: 3062204.d
Spectrum: Avg. Scans 809-811 (9.60), Background Scan 800
Location of Maximum: 95.00
Number of points: 114

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	4504	68.00	42848	103.00	330	141.00	4396
37.00	25512	69.00	43752	104.00	2056	142.00	523
38.00	22744	70.00	3773	105.00	469	143.00	4590
39.00	8447	71.00	269	106.00	2024	144.00	322
40.00	157	72.00	2366	107.00	483	145.00	433
41.00	69	73.00	18816	109.00	67	146.00	637
43.00	165	74.00	72928	110.00	353	147.00	396
44.00	2826	75.00	210688	111.00	572	148.00	1053
45.00	4597	76.00	18984	112.00	355	149.00	356
46.00	419	77.00	2253	113.00	447	150.00	452
47.00	5056	78.00	1535	115.00	628	152.00	327
48.00	3443	79.00	13872	116.00	1822	153.00	320
49.00	22064	80.00	4129	117.00	2804	154.00	254
50.00	101144	81.00	14515	118.00	1705	155.00	1016
51.00	31392	82.00	3092	119.00	2266	156.00	163
52.00	1423	83.00	528	122.00	76	157.00	761
54.00	251	84.00	226	124.00	368	159.00	512
55.00	1464	85.00	44	125.00	72	161.00	510
56.00	7902	86.00	505	126.00	144	170.00	139
57.00	14003	87.00	15958	127.00	236	171.00	290
58.00	781	88.00	14979	128.00	1617	173.00	2948
59.00	267	91.00	1747	129.00	757	174.00	343552
60.00	4525	92.00	12126	130.00	1780	175.00	25288
61.00	22168	93.00	17944	131.00	715	176.00	321984
62.00	22640	94.00	51824	135.00	920	177.00	20616
63.00	17000	95.00	429760	136.00	240	178.00	598
64.00	1668	96.00	28096	137.00	858	269.00	86
65.00	146	97.00	1066	139.00	79		
67.00	968	98.00	262	140.00	326		

US32TAR1

Data file : /chem/msd3.i/26JUL21.b/3072601.d
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 26-JUL-2021 09:33
Operator : LD Inst ID: msd3.i
Smp Info : 200mL #3234-42;BFB;BFB
Misc Info : 36ng
Comment :
Method : /chem/msd3.i/26JUL21.b/bfb30.m
Meth Date : 03-Sep-2019 11:54 u7js Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 8 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Sample Matrix: WATER
Processing Host: us32tar1

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vf	1.00000	Volumetric correction factor
Vi	1.00000	Injection Volume

Cpnd Variable Local Compound Variable

RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
9.601	9.729	-0.128	95	297685			100.00- 100.00	100.00
9.601	9.729	-0.128	50	73626			8.00- 40.00	24.73
9.601	9.729	-0.128	75	151642			30.00- 66.00	50.94
9.601	9.729	-0.128	96	19613			5.00- 9.00	6.59
9.601	9.729	-0.128	173	2332			0.00- 1.99	0.88
9.601	9.729	-0.128	174	264853			50.01- 120.00	88.97
9.601	9.729	-0.128	175	20426			4.00- 9.00	7.71
9.601	9.729	-0.128	176	246528			93.00- 101.00	93.08
9.601	9.729	-0.128	177	16521			5.00- 9.00	6.70

Data File: /chem/msd3.i/26JUL21.b/3072601.d

Date : 26-JUL-2021 09:33

Client ID: BFB

Instrument: msd3.i

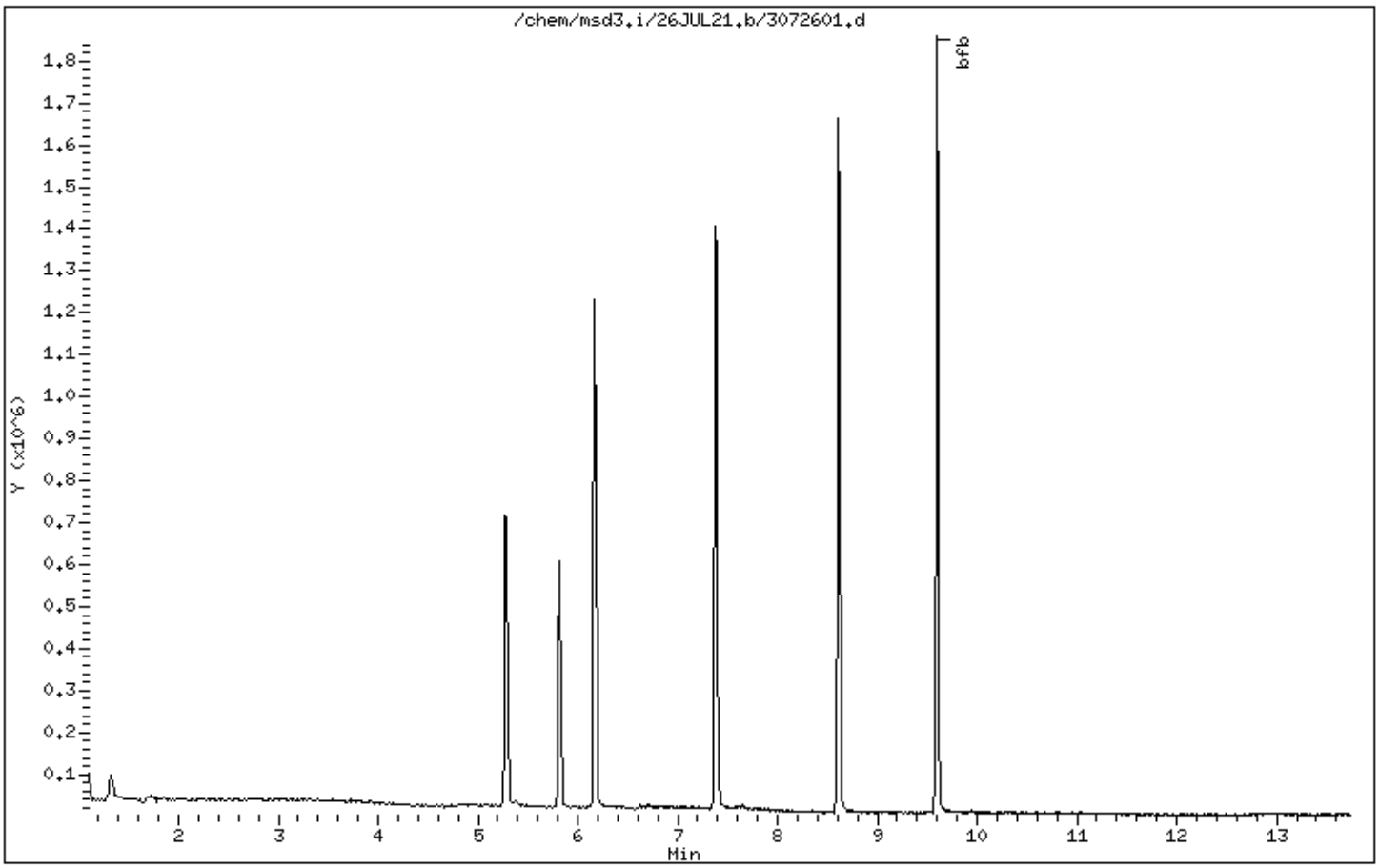
Sample Info: 200mL #3234-42;BFB;BFB

Volume Injected (uL): 1.0

Operator: LD

Column phase:

Column diameter: 2.00



Data File: /chem/msd3.i/26JUL21.b/3072601.d

Date : 26-JUL-2021 09:33

Client ID: BFB

Instrument: msd3.i

Sample Info: 200mL #3234-42;BFB;BFB

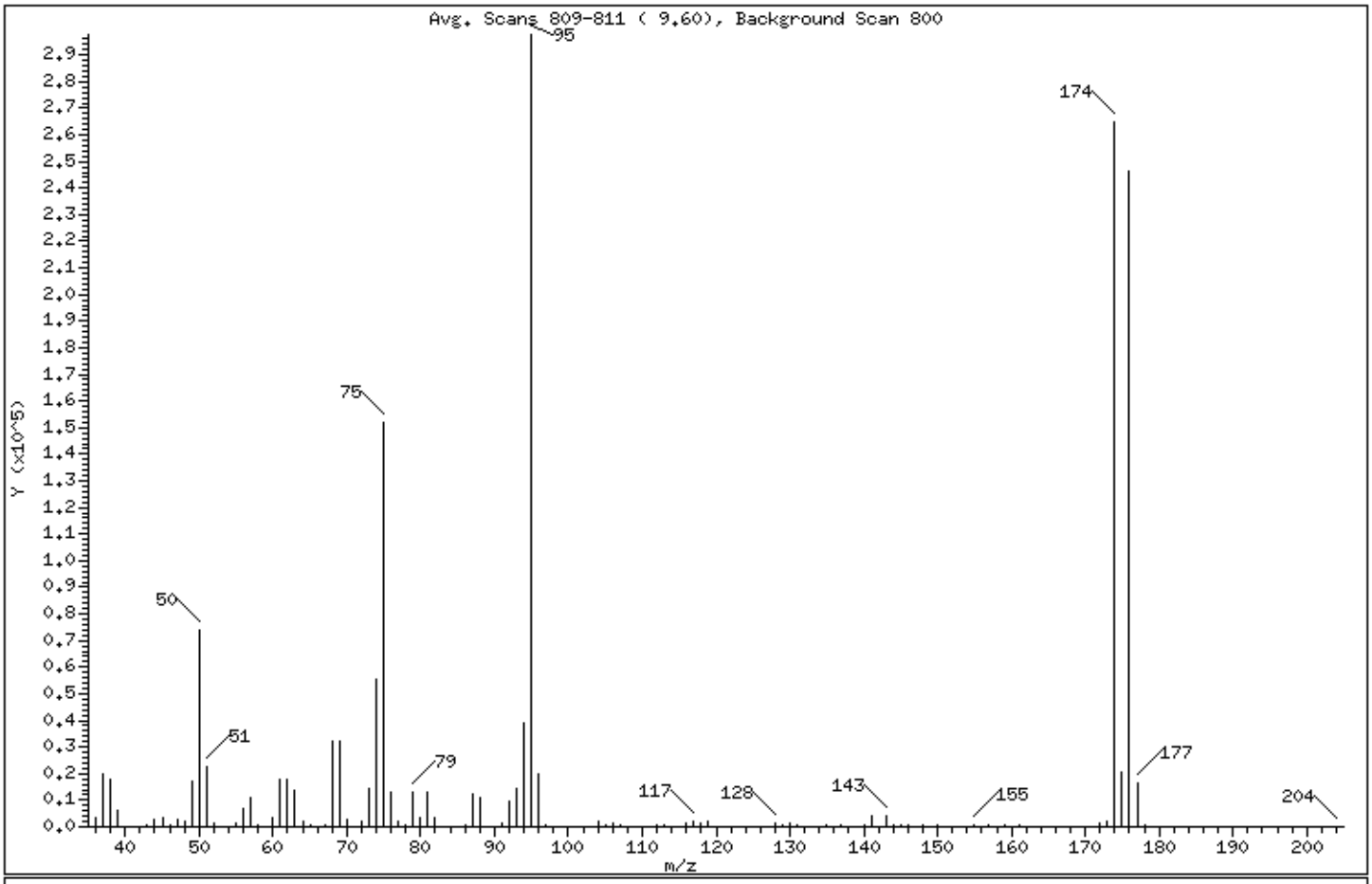
Volume Injected (uL): 1.0

Operator: LD

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	24.73
75	30.00 - 66.00% of mass 95	50.94
96	5.00 - 9.00% of mass 95	6.59
173	Less than 1.99% of mass 174	0.78 (0.88)
174	50.01 - 120.00% of mass 95	88.97
175	4.00 - 9.00% of mass 174	6.86 (7.71)
176	93.00 - 101.00% of mass 174	82.82 (93.08)
177	5.00 - 9.00% of mass 176	5.55 (6.70)

Date : 26-JUL-2021 09:33

Client ID: BFB Instrument: msd3.i

Sample Info: 200mL #3234-42;BFB;BFB

Volume Injected (uL): 1.0 Operator: LD

Column phase: Column diameter: 2.00

Data File: 3072601.d
Spectrum: Avg. Scans 809-811 (9.60), Background Scan 800
Location of Maximum: 95.00
Number of points: 121

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	3276	69.00	32496	107.00	406	144.00	348
37.00	19760	70.00	2718	110.00	273	145.00	408
38.00	17528	71.00	264	111.00	295	146.00	502
39.00	6035	72.00	2027	112.00	523	147.00	327
40.00	295	73.00	14407	113.00	427	148.00	803
41.00	108	74.00	55232	114.00	97	149.00	220
42.00	215	75.00	151616	115.00	330	150.00	422
43.00	518	76.00	13327	116.00	1585	151.00	104
44.00	2433	77.00	1823	117.00	2298	152.00	244
45.00	3433	78.00	955	118.00	1277	153.00	254
46.00	635	79.00	13017	119.00	2055	154.00	203
47.00	3023	80.00	3585	122.00	73	155.00	903
48.00	2287	81.00	12847	123.00	303	156.00	188
49.00	17016	82.00	3146	124.00	342	157.00	650
50.00	73624	83.00	295	125.00	208	159.00	454
51.00	22896	85.00	75	126.00	256	161.00	398
52.00	1064	86.00	461	127.00	267	166.00	67
55.00	1027	87.00	12337	128.00	1334	167.00	69
56.00	6552	88.00	11232	129.00	812	169.00	236
57.00	11190	90.00	77	130.00	1301	170.00	197
58.00	458	91.00	1404	131.00	618	172.00	1248
59.00	162	92.00	9721	132.00	70	173.00	2332
60.00	3256	93.00	14185	134.00	99	174.00	264832
61.00	17816	94.00	39160	135.00	788	175.00	20424
62.00	18080	95.00	297664	136.00	263	176.00	246528
63.00	13772	96.00	19608	137.00	756	177.00	16520
64.00	1728	97.00	597	139.00	106	178.00	518
65.00	672	103.00	304	140.00	347	204.00	78
66.00	154	104.00	1736	141.00	3896		
67.00	889	105.00	709	142.00	248		
68.00	32120	106.00	1691	143.00	4375		

US32TAR1

Data file : /chem/msd3.i/27JUL21.b/3072702.d
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 27-JUL-2021 11:02
Operator : LD Inst ID: msd3.i
Smp Info : 200mL #3234-42;BFB;BFB
Misc Info : 36ng
Comment :
Method : /chem/msd3.i/27JUL21.b/bfb30.m
Meth Date : 03-Sep-2019 11:54 u7js Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 8 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Sample Matrix: WATER
Processing Host: us32tar1

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vf	1.00000	Volumetric correction factor
Vi	1.00000	Injection Volume

Cpnd Variable Local Compound Variable

RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
9.600	9.729	-0.129	95	251099			100.00- 100.00	100.00
9.600	9.729	-0.129	50	63072			8.00- 40.00	25.12
9.600	9.729	-0.129	75	130070			30.00- 66.00	51.80
9.600	9.729	-0.129	96	16687			5.00- 9.00	6.65
9.600	9.729	-0.129	173	3007			0.00- 1.99	1.38
9.600	9.729	-0.129	174	218304			50.01- 120.00	86.94
9.600	9.729	-0.129	175	15960			4.00- 9.00	7.31
9.600	9.729	-0.129	176	204565			93.00- 101.00	93.71
9.600	9.729	-0.129	177	12914			5.00- 9.00	6.31

Data File: /chem/msd3.i/27JUL21.b/3072702.d

Date : 27-JUL-2021 11:02

Client ID: BFB

Instrument: msd3.i

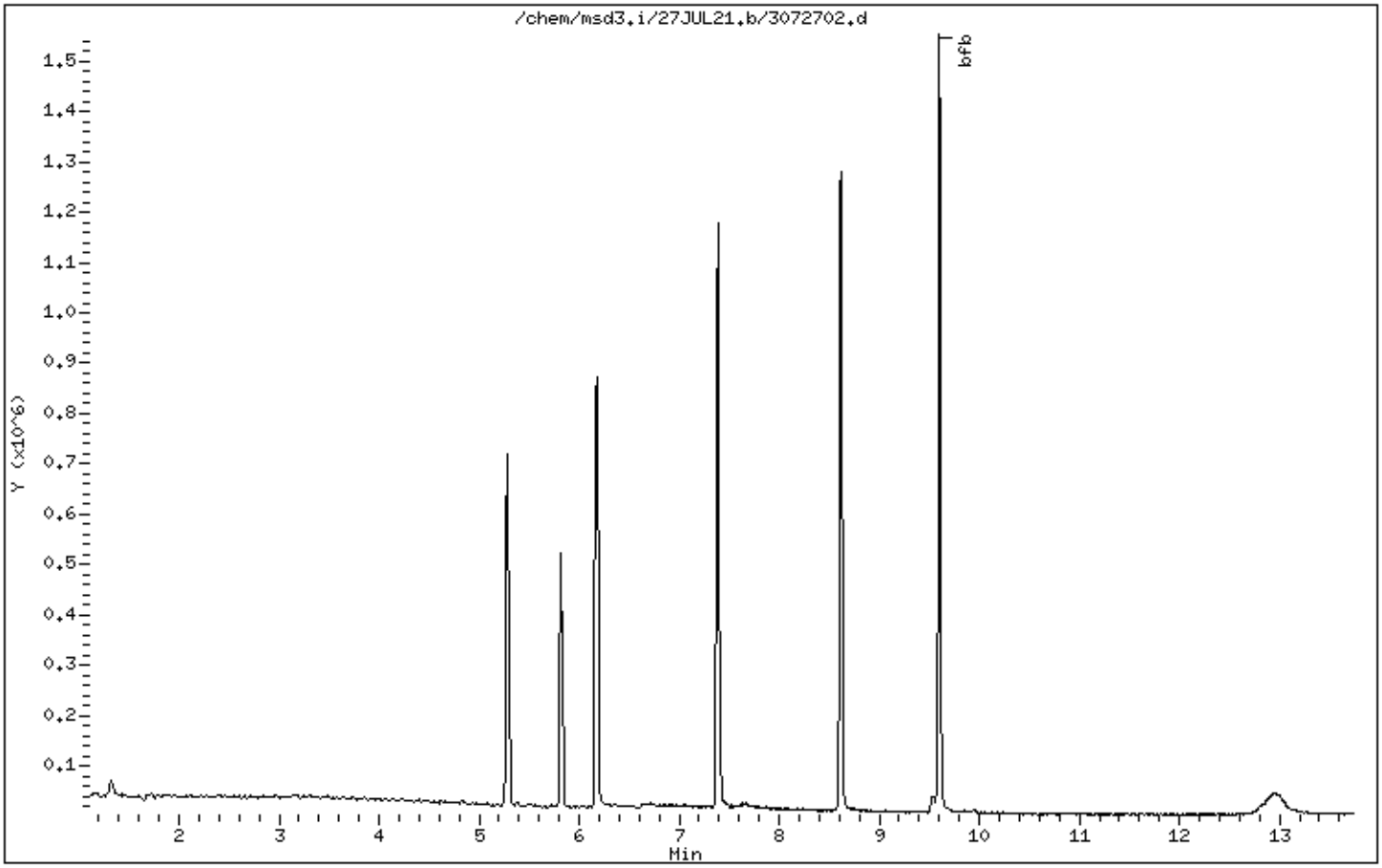
Sample Info: 200mL #3234-42;BFB;BFB

Volume Injected (uL): 1.0

Operator: LD

Column phase:

Column diameter: 2.00



Data File: /chem/msd3.i/27JUL21.b/3072702.d

Date : 27-JUL-2021 11:02

Client ID: BFB

Instrument: msd3.i

Sample Info: 200mL #3234-42;BFB;BFB

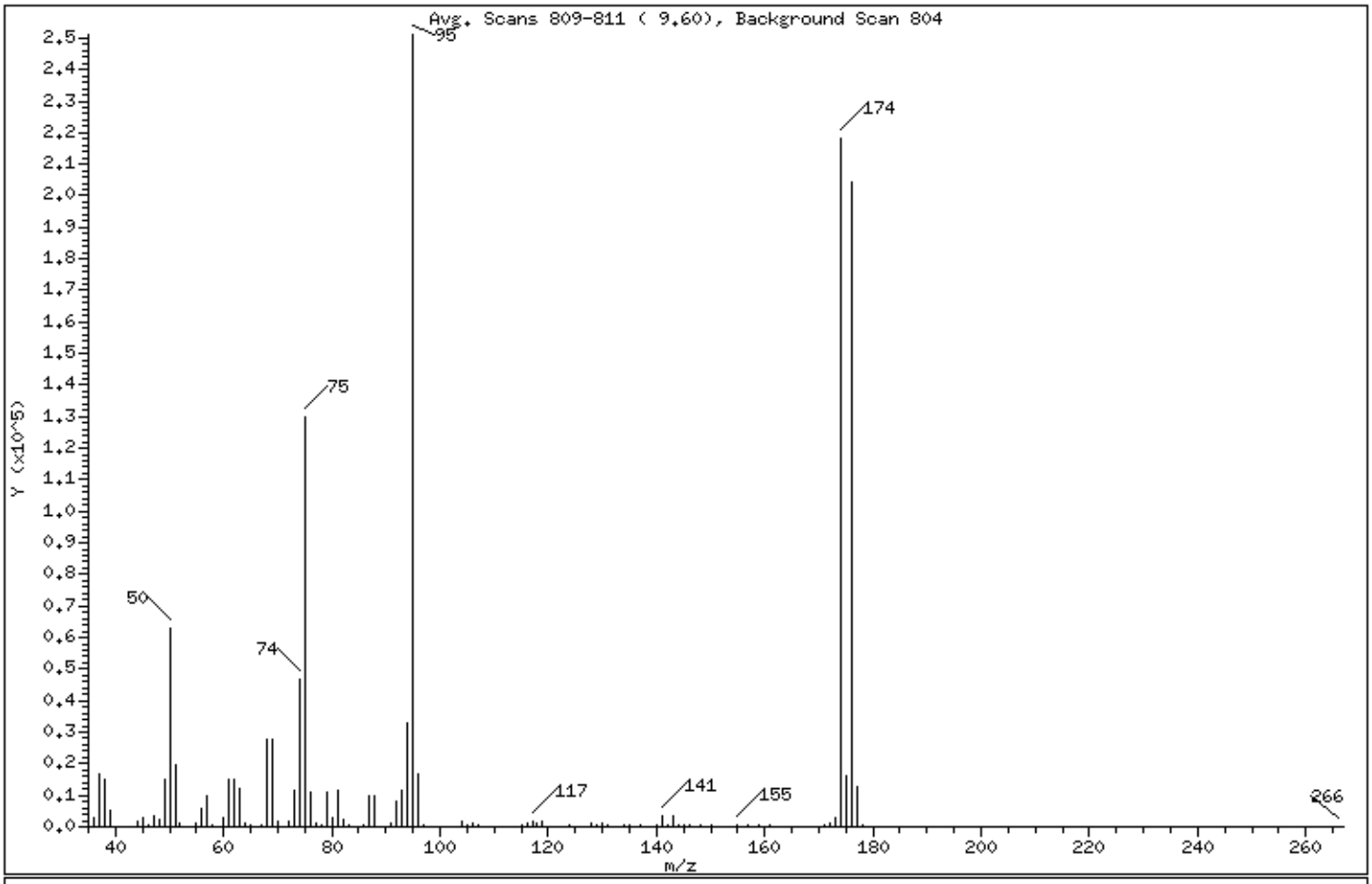
Volume Injected (uL): 1.0

Operator: LD

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	25.12
75	30.00 - 66.00% of mass 95	51.80
96	5.00 - 9.00% of mass 95	6.65
173	Less than 1.99% of mass 174	1.20 (1.38)
174	50.01 - 120.00% of mass 95	86.94
175	4.00 - 9.00% of mass 174	6.36 (7.31)
176	93.00 - 101.00% of mass 174	81.47 (93.71)
177	5.00 - 9.00% of mass 176	5.14 (6.31)

Date : 27-JUL-2021 11:02

Client ID: BFB Instrument: msd3.i

Sample Info: 200mL #3234-42;BFB;BFB

Volume Injected (uL): 1.0 Operator: LD

Column phase: Column diameter: 2.00

Data File: 3072702.d
Spectrum: Avg. Scans 809-811 (9.60), Background Scan 804
Location of Maximum: 95.00
Number of points: 111

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2599	70.00	1941	106.00	1407	145.00	460
37.00	16864	71.00	199	107.00	382	146.00	465
38.00	14977	72.00	1521	110.00	34	148.00	653
39.00	5406	73.00	11540	112.00	145	149.00	259
42.00	49	74.00	46712	113.00	171	150.00	349
44.00	1866	75.00	130064	115.00	497	152.00	265
45.00	2988	76.00	10901	116.00	1171	153.00	179
46.00	476	77.00	1314	117.00	1933	154.00	265
47.00	3379	78.00	823	118.00	1426	155.00	818
48.00	2284	79.00	11168	119.00	1783	156.00	79
49.00	15224	80.00	3109	120.00	187	157.00	515
50.00	63072	81.00	11364	123.00	86	158.00	93
51.00	19656	82.00	2176	124.00	353	159.00	460
52.00	943	83.00	511	126.00	177	161.00	427
53.00	109	85.00	69	128.00	1013	165.00	76
55.00	1192	86.00	337	129.00	609	167.00	73
56.00	5724	87.00	9922	130.00	1185	169.00	141
57.00	9801	88.00	9842	131.00	488	170.00	213
58.00	556	90.00	78	134.00	337	171.00	314
60.00	3004	91.00	1164	135.00	378	172.00	1109
61.00	15198	92.00	8131	136.00	262	173.00	3007
62.00	15221	93.00	11360	137.00	675	174.00	218304
63.00	12305	94.00	32960	139.00	188	175.00	15960
64.00	1337	95.00	251072	140.00	414	176.00	204544
65.00	408	96.00	16680	141.00	3454	177.00	12914
67.00	861	97.00	554	142.00	464	178.00	537
68.00	27744	104.00	1509	143.00	3373	266.00	76
69.00	27896	105.00	472	144.00	337		

Shipping/Receiving Documents

eurofins | Air Toxics

Eurofins Air Toxics, Inc. Sample Receipt Confirmation Cover Page

Thank you for choosing Eurofins Air Toxics, Inc. (EATL). We have received your samples and have listed any Sample Receipt Descrepancies below.

In order to expedite analysis and reporting, please review the attached information for accuracy.

For corrections call: **Air Toxics, Ltd. at 916-985-1000**

EATL will proceed with the analysis as specified on the Chain of Custody (COC) and Sample Receipt Summary page.

Please note : The Sample Receipt Confirmation, including the total workorder charge, is subject to change upon secondary review. Our aim is to provide a confirmation to you in a timely manner. Sample Receipt Discrepancies, if any, may not include discrepancies regarding sample receipt pressure(s). Additionally, the COC will be provided with the final report.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630

(916) 985-1000 .FAX (916) 985-1020
Hours 6:30 A.M to 5:30 P.M. PST

eurofins | Air Toxics

Analysis Request /Canister Chain of Custody

For Laboratory Use Only

PID: _____ Workorder #: 2107284

180 Blue Ravine Rd. Suite B, Folsom, CA 95630
Phone (800) 985-5955; Fax (916) 351-8279

Client: AECOM
Project Name: SMUD 59th ST
Project Manager: Robert Kohlhardt Project # 60632793G
Sampler: T. Dooley
Site Name:

Special Instructions/Notes:
Invoicing To: Level IV Reporting
SWPP Queen
Report Email To:
Robert.Kohlhardt@AECOM.com

Turnaround Time (Rush surcharges may apply)
Standard X Rush _____ (specify)

Lab ID	Field Sample Identification(Location)	Can #	Flow Controller #	Start Sampling Information		Stop Sampling Information		Canister Vacuum/Pressure		Lab Use Only		Requested Analyses			
				Date	Time	Date	Time	Initial (in Hg)	Final (in Hg)	Receipt	Final (psig) Gas: N_2 / He	TO-15			
01A	SG-VW57A-02	1L3398	25440	7/14/21	0701	7/14/21	0707	-27	-5			X			
02A	SG-VW56B-02	1L2170	21472	7/14/21	0735	7/14/21	0742	-28	-5			X			
03A	SG-VW56A-02	1L3181	22582	7/14/21	0808	7/14/21	0813	-28	-5			X			
04A	SG-VW39B-02	1L2846	25337	7/14/21	0836	7/14/21	0841	-26	-5			X			
05A	SG-VW39A-02	1L3896	25485	7/14/21	0911	7/14/21	0916	-27	-5			X			
06A	SG-VW38B-03	34000754	22262	7/14/21	0935	7/14/21	0942	-28	-5			X			
07A	SG-VW38A-02	1L1747	24576	7/14/21	1014	7/14/21	1024	-25	-5			X			
08A	SG-VW38A-03	3009	24576	7/14/21	1014	7/14/21	1024	-25	-5			X			
09A	SG-VW15-02	1L1812	22410	7/14/21	1056	7/14/21	1134	-27	-5			X			
10A	SG-VW15-03	1L2980	22410	7/14/21	1056	7/14/21	1134	-27	-5			X			
11A	SG-VW33A-02	1L2437	21548	7/14/21	1210	7/14/21	1218	-27	-5			X			
12A	SG-VW33B-02	1L1999	22405	7/14/21	1296	7/14/21	1241	-28	-5			X			
13A	SG-VW34A-02	1L2705	30792	7/14/21	1317	7/14/21	1330	-26	-5			X			
14A	SG-VW34A-03	1L3880	30792	7/14/21	1317	7/14/21	1330	-26	-5			X			
15A	SG-VW34B-02	1L2952	24587	7/14/21	1406	7/14/21	1411	-26	-5			X			
16A	SG-VW55B-02	1L2495	30617	7/14/21	1431	7/14/21	1440	-27	-5			X			

Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time
C.E.T	7/14/21	1500	Eurofins	~~7/15/21~~ 7/14/21	3:00
	7/14/21	3:45		7/14/21	1545
	Date	Time		Date	Time

Lab Use Only

Shipper Name: FATE Courier | Custody Seals Intact? | Yes | No | None

Sample Transportation Notice: Relinquishing signature on this document indicates that samples are shipped in compliance with all applicable local, State, Federal, and international laws, regulations, and ordinances of any kind. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Eurofins Air Toxics against any claim, demand, or action, of any kind, related to the collection, handling, of shipping of samples. D.O.T Hotline (800) 467-4922

eurofins | Air Toxics

Analysis Request /Canister Chain of Custody

For Laboratory Use Only

PID: _____ Workorder #: 2107284

180 Blue Ravine Rd. Suite B, Folsom, CA 95630
Phone (800) 985-5955; Fax (916) 351-8279

page--of ---

Client: AECOM
Project Name: SMUD 59th St.
Project Manager: Robert Kohlhardt Project # 60632793.6
Sampler: Tamrah Hedrick
Site Name:

Special Instructions/Notes: Level IV Reporting
Invoicing To:
SWPP Queen
Report Email to:
Robert.Kohlhardt@AECOM.com

Turnaround Time (Rush surcharges may apply)
Standard X Rush _____ (specify)

Lab ID	Field Sample Identification(Location)	Can #	Flow Controller #	Start Sampling Information		Stop Sampling Information		Canister Vacuum/Pressure		Lab Use Only		Requested Analyses			
				Date	Time	Date	Time	Initial (in Hg)	Final (in Hg)	Receipt	Final (psig) Gas: N_2 / He	TO-15			
17A	SG-VW60A-01	IL2613	25490	7/14/21	0729	7/14/21	0734	-27	-5			X			
18A	SG-VW60B-01	IL2490	22367	7/14/21	0801	7/14/21	0807	-27	-5			X			
19A	SG-VW54B-02	IL3096	20593	7/14/21	0849	7/14/21	0858	-26.5	-5			X			
20A	SG-VW24B-02	IL-681	30650	7/14/21	0937	7/14/21	0947	-26.5	-5			X			
21A	SG-VW58A-01	IL2449	25435	7/14/21	1024	7/14/21	1029	-27	-5			X			
22A	SG-VW58B-01	IL2395	24608	7/14/21	1047	7/14/21	1052	-26.5	-5			X			
23A	SG-VW23B-02	1086	25357	7/14/21	1131	7/14/21	1137	-26	-5			X			
24A	SG-VW22A-02	IL2900	25288	7/14/21	1234	7/14/21	1240	-27	-4			X			
25A	SG-VW22B-02	IL2337	25486	7/14/21	1304	7/14/21	1310	-27	-5			X			
26A	SG-VW20A-02	LC170	30810	7/14/21	1402	7/14/21	1410	-25.5	-5			X			

Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time
	7/14/21	1500	Eurofins	~~7/15/21~~ 7/14/21	3:01
	7/14/21	3:45		7/14/21	1545

Lab Use Only

Shipper Name: FAth Courier | Custody Seals Intact? | Yes | No | None

Sample Transportation Notice: Relinquishing signature on this document indicates that samples are shipped in compliance with all applicable local, State, Federal, and international laws, regulations, and ordinances of any kind. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Eurofins Air Toxics against any claim, demand, or action, of any kind, related to the collection, handling, of shipping of samples. D.O.T Hotline (800) 467-4922

eurofins | Air Toxics

SAMPLE RECEIPT SUMMARY

WORKORDER 2107284

Client

Mr. Robert Kohlhardt
AECOM
2020 L Street, Suite 400
Sacramento, CA 95811

Phone

916-679-2000

Fax

916-679-2900

Sales Rep: DaV

Date Promised: 07/28/21
Date Completed:
Date Received: 7/14/21
PO#:
Project#: 606327936 SMUD 59th ST

Total $: $ 5,019.00
Logged By: CH

Fraction	Sample #	Analysis	Collected	Amount$
01A	SG-VW57A-02	TO-15	7/14/2021	$150.00
02A	SG-VW56B-02	TO-15	7/14/2021	$150.00
03A	SG-VW56A-02	TO-15	7/14/2021	$150.00
04A	SG-VW39B-02	TO-15	7/14/2021	$150.00
05A	SG-VW39A-02	TO-15	7/14/2021	$150.00
06A	SG-VW38B-03	TO-15	7/14/2021	$150.00
07A	SG-VW38A-02	TO-15	7/14/2021	$150.00
08A	SG-VW38A-03	TO-15	7/14/2021	$150.00
09A	SG-VW15-02	TO-15	7/14/2021	$150.00
10A	SG-VW15-03	TO-15	7/14/2021	$150.00
11A	SG-VW33A-02	TO-15	7/14/2021	$150.00
12A	SG-VW33B-02	TO-15	7/14/2021	$150.00
13A	SG-VW34A-02	TO-15	7/14/2021	$150.00
14A	SG-VW34A-03	TO-15	7/14/2021	$150.00
15A	SG-VW34B-02	TO-15	7/14/2021	$150.00
16A	SG-VW55B-02	TO-15	7/14/2021	$150.00
17A	SG-VW60A-01	TO-15	7/14/2021	$150.00
18A	SG-VW60B-01	TO-15	7/14/2021	$150.00
19A	SG-VW54B-02	TO-15	7/14/2021	$150.00
20A	SG-VW24B-02	TO-15	7/14/2021	$150.00

Note: Samples received after 3 P.M. PST are considered to be received on the following work day.
Atlas Project Name/Profile#: SMUD 59th Street Corporation Yard/25677

BILL TO: Mr. Jerry Montgomery
SWPPQueen
7202 Gloria Drive #25
Sacramento, CA 95831

Analysis Code: TO-14A

TERMS:

Reporting Method: TO-15 (Sp)-AECOM (SMUD 59th)

Other Records

Air Toxics Ltd.

File Results

Data File: File Information: 3072609.d
Sample #: 2107284-01A
Client ID:
Spike Level: 0
Dilution Factor: 2.07

Compound	Amount (ppbv)	(Area - Blank Area)/ RF * DF
TNMOC (Ref. to Gasolin	12	(12246558.7702856 - 11915177.5144896 / 56027

Air Toxics Ltd.

List of Selected Compounds

Data File: File Information: 3072609.d
Sample #: 2107284-01A
Client ID:
Spike Level: 0
Dilution Factor: 2.07

Compounds	RT	Peak Area	10
Unknown Peak 1.3108	1.311	14616906	
Unknown Peak 1.6885	1.689	73974	
Unknown Peak 1.7305	1.731	58827	
Unknown Peak 1.8984	1.898	25229	
Unknown Peak 3.2416	3.242	66022	
Unknown Peak 3.2976	3.298	36608	
2-Propanol	3.424	56371	
Unknown Peak 3.8713	3.871	15670	
Hexane	4.179	63297	
Unknown Peak 4.8087	4.809	32518	
Unknown Peak 4.8927	4.893	17438	
Bromochloromethane	5.284	1343285	
Unknown Peak 5.3824	5.382	40754	
1,2-Dichloroethane-d4	5.816	945097	
1,4-Difluorobenzene	6.180	2044228	
Toluene-d8	7.387	2169549	
Unknown Peak 7.6022	7.602	12654	
Unknown Peak 7.6523	7.652	83304	
Tetrachloroethene	7.882	486561	
Chlorobenzene-d5	8.619	2356023	
Unknown Peak 9.5219	9.522	38703	
4-Bromofluorobenzene	9.601	2758805	
Unknown Peak 9.9445	9.945	12253	
Unknown Peak 10.510	10.510	14859	
Unknown Peak 11.391	11.391	21279	
Unknown Peak 13.132	13.132	16185	

Air Toxics Ltd.

File Results

Data File: File Information: 3072610.d
Sample #: 2107284-02A
Client ID:
Spike Level: 0
Dilution Factor: 2.1

Compound	Amount (ppbv)	(Area - Blank Area)/ RF * DF
TNMOC (Ref. to Gasolin	95	(14462092.5939582 - 11915177.5144896 / 56027

Air Toxics Ltd.

List of Selected Compounds

Data File: File Information: 3072610.d
Sample #: 2107284-02A
Client ID:
Spike Level: 0
Dilution Factor: 2.1

Compounds	RT	Peak Area	10
Unknown Peak 1.3108	1.311	26023752	
Unknown Peak 1.5207	1.521	201403	
Unknown Peak 1.7026	1.703	72905	
Unknown Peak 1.7305	1.731	50187	
Unknown Peak 1.8845	1.885	70166	
Unknown Peak 3.2417	3.242	33901	
Bromochloromethane	5.285	1407838	
Unknown Peak 5.3824	5.382	40302	
1,2-Dichloroethane-d4	5.816	916278	
1,4-Difluorobenzene	6.180	2091646	
Toluene-d8	7.387	2358025	
Tetrachloroethene	7.882	115902	
Unknown Peak 8.0893	8.089	10816	
Chlorobenzene-d5	8.612	2425581	
Unknown Peak 8.7053	8.705	26238	
m,p-Xylene	8.784	73570	
Unknown Peak 9.1208	9.121	48750	
Unknown Peak 9.4144	9.414	16689	
Unknown Peak 9.5219	9.522	14850	
4-Bromofluorobenzene	9.601	2870066	
4-Ethyltoluene	9.830	174014	
1,3,5-Trimethylbenzene	9.902	62824	
Unknown Peak 9.9445	9.945	11859	
Unknown Peak 10.087	10.088	40649	
1,2,4-Trimethylbenzene	10.224	131513	
Unknown Peak 10.295	10.296	11043	
Unknown Peak 10.345	10.346	15826	
Unknown Peak 10.410	10.410	11743	
Unknown Peak 10.467	10.467	12092	
Unknown Peak 10.510	10.510	32136	
Unknown Peak 10.596	10.596	60238	
Unknown Peak 10.739	10.740	22074	
Unknown Peak 10.804	10.804	194313	
Unknown Peak 10.983	10.983	109652	
Unknown Peak 11.033	11.033	28176	
Unknown Peak 11.061	11.062	37494	
Unknown Peak 11.126	11.126	53909	
Unknown Peak 11.248	11.248	16355	
Unknown Peak 11.355	11.356	10282	
Unknown Peak 11.398	11.399	30610	
Unknown Peak 11.470	11.470	60841	
Unknown Peak 11.513	11.513	47583	
Unknown Peak 11.592	11.592	39128	
Unknown Peak 11.713	11.714	109555	
Unknown Peak 11.763	11.764	56853	
Unknown Peak 11.806	11.807	42413	
Unknown Peak 11.885	11.886	107312	
Unknown Peak 11.907	11.907	54391	
Unknown Peak 11.935	11.936	39177	
Unknown Peak 11.986	11.986	21794	
Unknown Peak 12.086	12.086	35157	
Unknown Peak 12.186	12.187	66019	

List of Selected Compounds

Data File: File Information: 3072610.d
Sample #: 2107284-02A
Client ID:
Spike Level: 0
Dilution Factor: 2.1

Compounds	RT	Peak Area	10
Unknown Peak 12.215	12.215	63308	
Unknown Peak 12.315	12.316	96698	
Unknown Peak 12.372	12.373	22785	
Unknown Peak 12.487	12.487	28131	
Naphthalene	12.552	114497	
Unknown Peak 12.630	12.631	55012	
Unknown Peak 12.730	12.731	19726	
Unknown Peak 12.852	12.853	20662	

Air Toxics Ltd.

File Results

Data File: File Information: 3072611.d
Sample #: 2107284-03A
Client ID:
Spike Level: 0
Dilution Factor: 2.11

Compound	Amount (ppbv)	(Area - Blank Area)/ RF * DF
TNMOC (Ref. to Gasolin	10	(12194537.7291899 - 11915177.5144896 / 56027

Air Toxics Ltd.

List of Selected Compounds

Data File: File Information: 3072611.d
Sample #: 2107284-03A
Client ID:
Spike Level: 0
Dilution Factor: 2.11

	Compounds	RT	Peak Area	10
☐	Unknown Peak 1.3106	1.311	12073147	☐
☐	Unknown Peak 1.5205	1.521	95695	☐
☑	Unknown Peak 1.7164	1.716	79488	☐
☑	Unknown Peak 1.7444	1.744	42695	☐
☑	Unknown Peak 1.8983	1.898	22070	☐
☑	Unknown Peak 2.7378	2.738	20815	☐
☑	Unknown Peak 3.1296	3.130	16216	☐
☑	Unknown Peak 3.2415	3.242	41098	☐
☑	Unknown Peak 3.4234	3.423	54034	☐
☑	Unknown Peak 3.7452	3.745	20006	☐
☑	Unknown Peak 4.3608	4.361	18297	☐
☑	Unknown Peak 4.4728	4.473	15364	☐
☑	Unknown Peak 4.9765	4.977	19786	☐
☑	Bromochloromethane	5.284	1420545	☐
☑	Unknown Peak 5.3822	5.382	45075	☐
☑	1,2-Dichloroethane-d4	5.816	906700	☐
☑	1,4-Difluorobenzene	6.180	1946400	☐
☑	Unknown Peak 6.6207	6.621	17210	☐
☑	Toluene-d8	7.387	2204104	☐
☑	Unknown Peak 7.6450	7.645	14820	☐
☑	Tetrachloroethene	7.881	168187	☐
☑	Chlorobenzene-d5	8.619	2356308	☐
☑	4-Bromofluorobenzene	9.601	2754217	☐
☑	Unknown Peak 9.9515	9.952	11104	☐

Air Toxics Ltd.

File Results

Data File: File Information: 3072612.d
Sample #: 2107284-04A
Client ID:
Spike Level: 0
Dilution Factor: 2.27

Compound	Amount (ppbv)	(Area - Blank Area)/ RF * DF
TNMOC (Ref. to Gasolin	99	(14358814.469777 - 11915177.5144896 / 56027)

Air Toxics Ltd.

List of Selected Compounds

Data File: File Information: 3072612.d
Sample #: 2107284-04A
Client ID:
Spike Level: 0
Dilution Factor: 2.27

Compounds	RT	Peak Area	10
Unknown Peak 1.3105	1.311	8306295	
Unknown Peak 1.6883	1.688	39663	
Unknown Peak 1.7582	1.758	60023	
Unknown Peak 1.8981	1.898	17031	
Unknown Peak 2.4158	2.416	19048	
Unknown Peak 2.5697	2.570	16074	
Unknown Peak 3.2414	3.241	21214	
Unknown Peak 3.4232	3.423	23252	
Unknown Peak 3.6191	3.619	20272	
Unknown Peak 5.0883	5.088	19664	
Bromochloromethane	5.284	1594881	
Unknown Peak 5.3821	5.382	192877	
1,2-Dichloroethane-d4	5.816	1035812	
1,4-Difluorobenzene	6.166	2303406	
Unknown Peak 6.7925	6.793	12451	
Unknown Peak 7.1363	7.136	16880	
Toluene-d8	7.387	2577362	
Toluene	7.437	145281	
Tetrachloroethene	7.874	99625	
Unknown Peak 8.0890	8.089	21839	
Unknown Peak 8.4901	8.490	14088	
Chlorobenzene-d5	8.612	2784630	
Unknown Peak 9.3210	9.321	11209	
4-Bromofluorobenzene	9.600	3264732	
Unknown Peak 9.9514	9.951	16001	
Unknown Peak 10.409	10.410	13097	
Unknown Peak 11.391	11.391	18400	

Air Toxics Ltd.

File Results

Data File: File Information: 3072613.d
Sample #: 2107284-05A
Client ID:
Spike Level: 0
Dilution Factor: 2.06

Compound	Amount (ppbv)	(Area - Blank Area)/ RF * DF
TNMOC (Ref. to Gasolin	0	(11340256.0779365 - 11915177.5144896 / 56027

Air Toxics Ltd.

List of Selected Compounds

Data File: File Information: 3072613.d
Sample #: 2107284-05A
Client ID:
Spike Level: 0
Dilution Factor: 2.06

Compounds	RT	Peak Area	10
Unknown Peak 1.3108	1.311	8121281	
Unknown Peak 1.6745	1.675	28635	
Unknown Peak 1.7305	1.731	48099	
Unknown Peak 2.2342	2.234	16067	
Unknown Peak 3.1297	3.130	19331	
Unknown Peak 3.2416	3.242	52825	
Unknown Peak 3.4235	3.424	57758	
Bromochloromethane	5.284	1255697	
Unknown Peak 5.3824	5.382	96196	
1,2-Dichloroethane-d4	5.816	878947	
1,4-Difluorobenzene	6.180	1969496	
Unknown Peak 6.6208	6.621	29049	
Unknown Peak 6.9145	6.915	16000	
Toluene-d8	7.387	2011789	
Unknown Peak 7.4374	7.437	39667	
Tetrachloroethene	7.882	112482	
Chlorobenzene-d5	8.619	2151502	
4-Bromofluorobenzene	9.601	2541712	
Unknown Peak 9.9516	9.952	15003	

Air Toxics Ltd.

File Results

Data File: File Information: 3072614.d
Sample #: 2107284-06A
Client ID:
Spike Level: 0
Dilution Factor: 2.09

Compound	Amount (ppbv)	(Area - Blank Area)/ RF * DF
TNMOC (Ref. to Gasolin	100	(14590346.8184488 - 11915177.5144896 / 56027

Air Toxics Ltd.

List of Selected Compounds

Data File: File Information: 3072614.d
Sample #: 2107284-06A
Client ID:
Spike Level: 0
Dilution Factor: 2.09

Compounds	RT	Peak Area	10
Unknown Peak 1.3245	1.325	12033367	
Unknown Peak 1.5204	1.520	169401	
Unknown Peak 1.6324	1.632	33703	
Unknown Peak 1.6743	1.674	27479	
Unknown Peak 1.8842	1.884	45769	
Unknown Peak 1.9262	1.926	41977	
Unknown Peak 2.0661	2.066	18138	
Unknown Peak 2.3319	2.332	21181	
Unknown Peak 2.4159	2.416	64903	
Unknown Peak 2.8077	2.808	24490	
Unknown Peak 2.8776	2.878	40055	
Unknown Peak 3.2414	3.241	109718	
Unknown Peak 3.2834	3.283	91762	
Unknown Peak 3.4653	3.465	48774	
Unknown Peak 3.9130	3.913	62299	
Unknown Peak 4.9204	4.920	41823	
Unknown Peak 4.9624	4.962	34022	
Unknown Peak 5.1023	5.102	45708	
Bromochloromethane	5.270	1623605	
Chloroform	5.340	319076	
Unknown Peak 5.4241	5.424	381631	
Unknown Peak 5.5641	5.564	41543	
1,2-Dichloroethane-d4	5.816	1087912	
Unknown Peak 5.8859	5.886	26903	
1,4-Difluorobenzene	6.166	2363335	
Unknown Peak 6.3336	6.334	43984	
Unknown Peak 6.7854	6.785	26225	
Unknown Peak 7.1435	7.144	15913	
Toluene-d8	7.380	2704993	
Toluene	7.437	259747	
Unknown Peak 7.6449	7.645	111418	
Unknown Peak 7.7309	7.731	14027	
Tetrachloroethene	7.874	238128	
Unknown Peak 8.0819	8.082	28974	
Unknown Peak 8.1463	8.146	26693	
Unknown Peak 8.2753	8.275	30746	
Unknown Peak 8.4687	8.469	27508	
Chlorobenzene-d5	8.612	2915556	
Unknown Peak 8.6907	8.691	13879	
Unknown Peak 9.228	9.228	12008	
Unknown Peak 9.3139	9.314	16753	
Unknown Peak 9.5288	9.529	20348	
4-Bromofluorobenzene	9.600	3358821	
Unknown Peak 9.9443	9.944	16274	
Unknown Peak 10.323	10.324	16321	
Unknown Peak 10.402	10.403	13316	
Unknown Peak 10.961	10.961	12912	

Air Toxics Ltd.

File Results

Data File: File Information: 3072615.d
Sample #: 2107284-07A
Client ID:
Spike Level: 0
Dilution Factor: 2.34

Compound	Amount (ppbv)	(Area - Blank Area)/ RF * DF
TNMOC (Ref. to Gasolin	8.8	(12126835.2200198 - 11915177.5144896 / 56027

Air Toxics Ltd.

List of Selected Compounds

Data File: File Information: 3072615.d
Sample #: 2107284-07A
Client ID:
Spike Level: 0
Dilution Factor: 2.34

Compounds	RT	Peak Area	10
Unknown Peak 1.2965	1.297	4652861	
Unknown Peak 1.5764	1.576	25089	
Unknown Peak 1.6743	1.674	35806	
Unknown Peak 1.8842	1.884	130105	
Unknown Peak 2.3599	2.360	15278	
Unknown Peak 2.5278	2.528	21108	
Unknown Peak 2.6537	2.654	47919	
Unknown Peak 2.6957	2.696	38759	
Unknown Peak 2.7937	2.794	17880	
Unknown Peak 3.0175	3.018	19909	
Unknown Peak 3.2414	3.241	64961	
Unknown Peak 3.4513	3.451	61273	
Unknown Peak 3.6612	3.661	18050	
Unknown Peak 4.6686	4.669	17954	
Unknown Peak 4.9624	4.962	15425	
Bromochloromethane	5.284	1227216	
Unknown Peak 5.4101	5.410	68597	
1,2-Dichloroethane-d4	5.816	814562	
1,4-Difluorobenzene	6.180	1736733	
Unknown Peak 6.2357	6.236	63428	
Unknown Peak 6.6636	6.664	17203	
Unknown Peak 6.7925	6.793	11852	
Unknown Peak 7.1507	7.151	11651	
Toluene-d8	7.387	2062133	
Unknown Peak 7.4587	7.459	22099	
Unknown Peak 7.6592	7.659	42590	
Unknown Peak 7.7237	7.724	25823	
Tetrachloroethene	7.881	537315	
Unknown Peak 8.0819	8.082	30563	
Unknown Peak 8.1535	8.154	39715	
Unknown Peak 8.2036	8.204	13279	
Unknown Peak 8.2753	8.275	33755	
Unknown Peak 8.4758	8.476	43356	
Chlorobenzene-d5	8.619	2158750	
Unknown Peak 8.8053	8.805	10749	
Unknown Peak 9.3139	9.314	13724	
Unknown Peak 9.5288	9.529	44056	
4-Bromofluorobenzene	9.600	2488317	
Unknown Peak 9.9514	9.951	13918	
Unknown Peak 10.331	10.331	26368	
Unknown Peak 10.610	10.610	10456	
Unknown Peak 10.975	10.976	15564	
Unknown Peak 11.391	11.391	13548	

Air Toxics Ltd.

File Results

Data File: File Information: 3072616.d
Sample #: 2107284-08A
Client ID:
Spike Level: 0
Dilution Factor: 2.32

Compound	Amount (ppbv)	(Area - Blank Area)/ RF * DF
TNMOC (Ref. to Gasolin	100	(14345842.8794089 - 11915177.5144896 / 56027

Air Toxics Ltd.

List of Selected Compounds

Data File: File Information: 3072616.d
Sample #: 2107284-08A
Client ID:
Spike Level: 0
Dilution Factor: 2.32

Compounds	RT	Peak Area	10
Unknown Peak 11.384	11.384	20204	
Unknown Peak 12.322	12.323	13199	

Air Toxics Ltd.

List of Selected Compounds

Data File: File Information: 3072616.d
Sample #: 2107284-08A
Client ID:
Spike Level: 0
Dilution Factor: 2.32

	Compounds	RT	Peak Area	10
☐	Unknown Peak 1.3107	1.311	4762058	☐
☐	Unknown Peak 1.4226	1.423	84452	☐
☐	Unknown Peak 1.5345	1.535	34380	☐
☐	Unknown Peak 1.6885	1.688	25776	☐
☐	Unknown Peak 1.8843	1.884	92555	☐
☐	Unknown Peak 2.2061	2.206	17884	☐
☐	Unknown Peak 2.4160	2.416	17399	☐
☐	Unknown Peak 2.8638	2.864	23786	☐
☐	Unknown Peak 3.1016	3.102	15329	☐
☐	Acetone	3.242	166149	☐
☐	Unknown Peak 3.3535	3.354	15675	☐
☐	2-Propanol	3.451	59369	☐
☐	Unknown Peak 3.5913	3.591	37611	☐
☐	Unknown Peak 3.8152	3.815	15617	☐
☐	Unknown Peak 4.249	4.249	39512	☐
☐	Unknown Peak 4.8926	4.893	22879	☐
☑	Unknown Peak 4.9625	4.963	34616	☐
☑	Bromochloromethane	5.270	1640297	☐
☐	Unknown Peak 5.4103	5.410	222013	☐
☐	Unknown Peak 5.5222	5.522	20482	☐
☑	1,2-Dichloroethane-d4	5.816	1078211	☐
☑	1,4-Difluorobenzene	6.166	2352668	☐
☐	Unknown Peak 6.2638	6.264	19944	☐
☐	Unknown Peak 6.6566	6.657	52958	☐
☑	Unknown Peak 6.7067	6.707	15647	☐
☑	Unknown Peak 6.7998	6.800	11189	☐
☑	Unknown Peak 6.9359	6.936	13035	☐
☑	Toluene-d8	7.380	2663693	☐
☐	Unknown Peak 7.4445	7.445	34453	☐
☐	Unknown Peak 7.6594	7.659	83722	☐
☐	Unknown Peak 7.7883	7.788	13763	☐
☐	Tetrachloroethene	7.874	705660	☐
☐	Unknown Peak 7.9459	7.946	29240	☐
☐	Unknown Peak 7.9960	7.996	16246	☐
☐	Unknown Peak 8.0892	8.089	30562	☐
☐	Unknown Peak 8.1465	8.147	29631	☐
☐	Unknown Peak 8.2682	8.268	41478	☐
☐	Unknown Peak 8.4760	8.476	56402	☐
☑	Chlorobenzene-d5	8.612	2875491	☐
☑	Unknown Peak 8.7911	8.791	23861	☐
☑	Unknown Peak 9.3140	9.314	20198	☐
☑	Unknown Peak 9.5218	9.522	33569	☐
☑	4-Bromofluorobenzene	9.601	3365127	☐
☑	Unknown Peak 9.794	9.794	10179	☐
☑	Unknown Peak 9.9444	9.944	20688	☐
☑	Unknown Peak 10.109	10.109	12808	☐
☑	Unknown Peak 10.324	10.324	37692	☐
☑	Unknown Peak 10.402	10.403	28659	☐
☑	Unknown Peak 10.675	10.675	11908	☐
☑	Unknown Peak 10.918	10.919	14539	☐
☑	Unknown Peak 10.968	10.969	22141	☐
☑	Unknown Peak 11.047	11.048	26223	☐

Air Toxics Ltd.

File Results

Data File: File Information: 3072617.d
Sample #: 2107284-09A
Client ID:
Spike Level: 0
Dilution Factor: 2.36

Compound	Amount (ppbv)	(Area - Blank Area)/ RF * DF
TNMOC (Ref. to Gasolin	75	(13687999.8961719 - 11915177.5144896 / 56027

Air Toxics Ltd.

List of Selected Compounds

Data File: File Information: 3072617.d
Sample #: 2107284-09A
Client ID:
Spike Level: 0
Dilution Factor: 2.36

Compounds	RT	Peak Area	10
Unknown Peak 1.2548	1.255	45400	
Unknown Peak 1.3248	1.325	2876530	
Unknown Peak 1.5766	1.577	39851	
Unknown Peak 1.7026	1.703	64649	
Unknown Peak 1.7306	1.731	56859	
Unknown Peak 1.8005	1.801	19642	
Unknown Peak 1.8985	1.899	81440	
Unknown Peak 2.4861	2.486	23825	
Unknown Peak 2.7799	2.780	62269	
Acetone	3.228	139071	
Unknown Peak 3.2976	3.298	22468	
Unknown Peak 3.4096	3.410	23704	
Unknown Peak 3.8713	3.871	31449	
Unknown Peak 5.0746	5.075	47448	
Tetrahydrofuran	5.285	14965	
Bromochloromethane	5.285	1552044	
Unknown Peak 5.3824	5.382	25032	
1,2-Dichloroethane-d4	5.816	988676	
Unknown Peak 6.0820	6.082	25059	
1,4-Difluorobenzene	6.180	2078819	
Unknown Peak 6.3619	6.362	17287	
Unknown Peak 6.6638	6.664	11006	
Toluene-d8	7.387	2338111	
Unknown Peak 7.8744	7.874	24298	
Unknown Peak 8.0965	8.097	27162	
Chlorobenzene-d5	8.612	2511822	
Unknown Peak 9.3213	9.321	17282	
4-Bromofluorobenzene	9.601	2967358	
Unknown Peak 9.7798	9.780	13498	
Unknown Peak 9.9374	9.937	10266	
Unknown Peak 10.080	10.081	15805	
Unknown Peak 10.223	10.224	15772	
Unknown Peak 10.324	10.324	83196	
Unknown Peak 10.403	10.403	62935	
Unknown Peak 10.517	10.518	12789	
Unknown Peak 10.610	10.611	23402	
Unknown Peak 10.675	10.675	67531	
Unknown Peak 10.961	10.962	10800	
Unknown Peak 11.384	11.384	96826	
Unknown Peak 11.713	11.714	11787	
Unknown Peak 12.322	12.323	20384	
Unknown Peak 13.146	13.146	31412	

Air Toxics Ltd.

File Results

Data File: File Information: 3072618.d
Sample #: 2107284-10A
Client ID:
Spike Level: 0
Dilution Factor: 2.31

Compound	Amount (ppbv)	(Area - Blank Area)/ RF * DF
TNMOC (Ref. to Gasolin	110	(14614622.5088895 - 11915177.5144896 / 56027

Air Toxics Ltd.

List of Selected Compounds

Data File: File Information: 3072618.d
Sample #: 2107284-10A
Client ID:
Spike Level: 0
Dilution Factor: 2.31

	Compounds	RT	Peak Area	10
☐	Unknown Peak 1.2546	1.255	84844	☐
☐	Unknown Peak 1.3246	1.325	2617593	☐
☐	Unknown Peak 1.5764	1.576	43610	☐
☐	Unknown Peak 1.7024	1.702	112913	☐
☐	Unknown Peak 1.8982	1.898	98932	☐
☐	Unknown Peak 2.3740	2.374	14834	☐
☐	Unknown Peak 2.7797	2.780	24576	☐
☐	Unknown Peak 3.1155	3.116	21482	☐
☐	Acetone	3.228	163178	☐
☐	Carbon Disulfide	3.311	196783	☐
☐	2-Propanol	3.423	61760	☐
☐	Unknown Peak 3.7032	3.703	18628	☐
☐	Unknown Peak 3.8711	3.871	39041	☐
☐	Unknown Peak 3.9550	3.955	28394	☐
☐	Unknown Peak 4.5287	4.529	21325	☐
☐	Unknown Peak 4.8925	4.893	20696	☐
☐	Unknown Peak 4.9625	4.963	30140	☐
☐	Unknown Peak 5.0184	5.018	21237	☐
☐	Unknown Peak 5.0884	5.088	26367	☐
☑	Bromochloromethane	5.284	1343093	☐
☑	Unknown Peak 5.3822	5.382	88786	☐
☑	Unknown Peak 5.4382	5.438	46029	☐
☑	Unknown Peak 5.5501	5.550	26018	☐
☑	1,2-Dichloroethane-d4	5.816	934958	☐
☑	Unknown Peak 5.9839	5.984	25088	☐
☑	1,4-Difluorobenzene	6.180	1939175	☐
☑	Unknown Peak 6.4596	6.460	20165	☐
☑	Unknown Peak 6.6207	6.621	19949	☐
☑	Unknown Peak 6.6565	6.657	16090	☐
☑	Unknown Peak 6.8141	6.814	22657	☐
☑	Unknown Peak 6.9072	6.907	47848	☐
☑	Unknown Peak 7.2080	7.208	16111	☐
☑	Toluene-d8	7.387	2201625	☐
☑	Unknown Peak 7.4372	7.437	61683	☐
☐	Unknown Peak 7.6450	7.645	845043	☐
☐	Unknown Peak 7.8814	7.881	32514	☐
☐	Unknown Peak 8.0174	8.017	12586	☐
☐	Unknown Peak 8.0962	8.096	23948	☐
☐	Unknown Peak 8.2896	8.290	11944	☐
☑	Unknown Peak 8.3899	8.390	13179	☐
☑	Chlorobenzene-d5	8.619	2287198	☐
☑	Ethyl Benzene	8.684	204966	☐
☑	m,p-Xylene	8.784	113653	☐
☑	Unknown Peak 8.8627	8.863	12791	☐
☑	Unknown Peak 8.9272	8.927	11664	☐
☑	Unknown Peak 9.1277	9.128	38122	☐
☑	Unknown Peak 9.3211	9.321	18101	☐
☑	Unknown Peak 9.4142	9.414	49359	☐
☑	Unknown Peak 9.4501	9.450	30089	☐
☐	Unknown Peak 9.5217	9.522	347808	☐
☑	4-Bromofluorobenzene	9.601	2728162	☐
☑	Propylbenzene	9.758	92491	☐

List of Selected Compounds

Data File: File Information: 3072618.d
Sample #: 2107284-10A
Client ID:
Spike Level: 0
Dilution Factor: 2.31

Compounds	RT	Peak Area	10
4-Ethyltoluene	9.830	161293	
1,3,5-Trimethylbenzene	9.901	87259	
Unknown Peak 10.080	10.080	103696	
1,2,4-Trimethylbenzene	10.224	404735	
Unknown Peak 10.323	10.324	100968	
Unknown Peak 10.402	10.403	66196	
Unknown Peak 10.510	10.510	23589	
Unknown Peak 10.596	10.596	159605	
Unknown Peak 10.682	10.682	37602	
Unknown Peak 10.739	10.739	98876	
Unknown Peak 10.789	10.790	281813	
Unknown Peak 10.897	10.897	12981	
Unknown Peak 10.968	10.969	58424	
Unknown Peak 11.040	11.040	79416	
Unknown Peak 11.054	11.055	79822	
Unknown Peak 11.126	11.126	122220	
Unknown Peak 11.190	11.191	23657	
Unknown Peak 11.248	11.248	72139	
Unknown Peak 11.391	11.391	103173	
Unknown Peak 11.470	11.470	73300	
Unknown Peak 11.513	11.513	96285	
Unknown Peak 11.599	11.599	17859	
Unknown Peak 11.699	11.699	23120	
Unknown Peak 11.763	11.764	42818	
Unknown Peak 11.907	11.907	85753	
Unknown Peak 12.078	12.079	15113	
Unknown Peak 12.186	12.186	11748	
Unknown Peak 12.322	12.322	27548	
Unknown Peak 12.472	12.473	20145	
Unknown Peak 12.551	12.552	97202	
Unknown Peak 13.131	13.132	18594	

Air Toxics Ltd.

File Results

Data File: File Information: 3072619.d
Sample #: 2107284-11A
Client ID:
Spike Level: 0
Dilution Factor: 2.54

Compound	Amount (ppbv)	(Area - Blank Area)/ RF * DF
TNMOC (Ref. to Gasolin	71	(13487781.4867827 - 11915177.5144896 / 56027

Air Toxics Ltd.

List of Selected Compounds

Data File: File Information: 3072619.d
Sample #: 2107284-11A
Client ID:
Spike Level: 0
Dilution Factor: 2.54

Compounds	RT	Peak Area	10
Unknown Peak 1.2548	1.255	37833	
Unknown Peak 1.3108	1.311	1280391	
Unknown Peak 1.4507	1.451	77563	
Unknown Peak 1.5766	1.577	53695	
Unknown Peak 1.7025	1.703	89093	
Unknown Peak 1.8844	1.884	52126	
Unknown Peak 2.0104	2.010	25997	
Unknown Peak 2.3881	2.388	18950	
Unknown Peak 2.8359	2.836	19882	
Acetone	3.242	152342	
Carbon Disulfide	3.284	108989	
Unknown Peak 3.4655	3.466	61513	
Unknown Peak 3.8992	3.899	40836	
Unknown Peak 5.0466	5.047	63410	
Bromochloromethane	5.270	1313247	
Unknown Peak 5.4244	5.424	51255	
Unknown Peak 5.5923	5.592	23247	
1,2-Dichloroethane-d4	5.816	851522	
1,4-Difluorobenzene	6.166	1901056	
Unknown Peak 6.7999	6.800	11044	
Unknown Peak 6.8500	6.850	13850	
Toluene-d8	7.380	2187879	
Toluene	7.437	64886	
Unknown Peak 7.6451	7.645	303084	
Tetrachloroethene	7.874	75507	
Unknown Peak 8.0893	8.089	25174	
Unknown Peak 8.1466	8.147	11705	
Unknown Peak 8.2683	8.268	15922	
Unknown Peak 8.4761	8.476	17435	
Chlorobenzene-d5	8.612	2373810	
Unknown Peak 8.6766	8.677	46231	
Unknown Peak 8.7841	8.784	41905	
Unknown Peak 9.1279	9.128	32247	
Unknown Peak 9.2210	9.221	14499	
Unknown Peak 9.3643	9.364	24577	
Unknown Peak 9.5219	9.522	68774	
4-Bromofluorobenzene	9.601	2708487	
Unknown Peak 9.6723	9.672	24756	
Unknown Peak 9.8227	9.823	15932	
Unknown Peak 9.9445	9.945	14554	
Unknown Peak 10.087	10.088	18401	
Unknown Peak 10.223	10.224	45026	
Unknown Peak 10.324	10.324	16593	
Unknown Peak 10.417	10.417	26368	
Unknown Peak 10.467	10.467	12581	
Unknown Peak 10.596	10.596	46246	
Unknown Peak 10.675	10.675	10980	
Unknown Peak 10.746	10.747	23332	
Unknown Peak 10.789	10.790	50613	
Unknown Peak 10.961	10.962	22812	
Unknown Peak 11.040	11.040	35155	
Unknown Peak 11.061	11.062	33824	

Air Toxics Ltd.

List of Selected Compounds

Data File: File Information: 3072619.d
Sample #: 2107284-11A
Client ID:
Spike Level: 0
Dilution Factor: 2.54

Compounds	RT	Peak Area	10
Unknown Peak 11.126	11.126	36885	
Unknown Peak 11.384	11.384	16926	
Unknown Peak 11.470	11.470	19552	
Unknown Peak 11.513	11.513	26068	
Unknown Peak 12.559	12.559	18032	
Unknown Peak 13.132	13.132	31410	

Air Toxics Ltd.

File Results

Data File: File Information: 3072620.d
Sample #: 2107284-12A
Client ID:
Spike Level: 0
Dilution Factor: 2.5

Compound	Amount (ppbv)	(Area - Blank Area)/ RF * DF
TNMOC (Ref. to Gasolin	98	(14102791.2105139 - 11915177.5144896 / 56027

Air Toxics Ltd.

List of Selected Compounds

Data File: File Information: 3072620.d
Sample #: 2107284-12A
Client ID:
Spike Level: 0
Dilution Factor: 2.5

Compounds	RT	Peak Area
Unknown Peak 1.3105	1.311	3994148
Freon 12	1.464	80585
Unknown Peak 1.6044	1.604	32283
Unknown Peak 1.7023	1.702	75117
Unknown Peak 1.7443	1.744	33587
Unknown Peak 1.9122	1.912	24242
Unknown Peak 2.304	2.304	15922
Unknown Peak 3.2414	3.241	84139
2-Propanol	3.423	58240
Unknown Peak 3.8850	3.885	19146
Unknown Peak 4.9484	4.948	19275
Bromochloromethane	5.284	1537135
Chloroform	5.340	11849
1,2-Dichloroethane-d4	5.816	1017090
1,4-Difluorobenzene	6.166	2232254
Unknown Peak 6.6421	6.642	20664
Toluene-d8	7.387	2459094
Unknown Peak 7.5375	7.538	12622
Tetrachloroethene	7.881	284000
Unknown Peak 8.0890	8.089	13744
Unknown Peak 8.2681	8.268	11878
Unknown Peak 8.4758	8.476	19370
Chlorobenzene-d5	8.612	2685954
Unknown Peak 9.3211	9.321	15263
Unknown Peak 9.5216	9.522	309018
4-Bromofluorobenzene	9.600	3125624
Unknown Peak 9.9299	9.930	25010
Unknown Peak 10.316	10.317	13317
Unknown Peak 10.402	10.403	21667
Unknown Peak 10.682	10.682	26706
Unknown Peak 10.796	10.797	11011
Unknown Peak 11.047	11.047	41359
Unknown Peak 11.384	11.384	21935
Unknown Peak 11.598	11.599	32177
Unknown Peak 11.713	11.714	32043
Unknown Peak 12.279	12.279	13366
Unknown Peak 12.616	12.616	57520
Unknown Peak 13.669	13.669	43259

Air Toxics Ltd.

File Results

Data File: File Information: 3072621.d
Sample #: 2107284-13A
Client ID:
Spike Level: 0
Dilution Factor: 2.26

Compound	Amount (ppbv)	(Area - Blank Area)/ RF * DF
TNMOC (Ref. to Gasolin	0	(10991960.8524721 - 11915177.5144896 / 56027

Air Toxics Ltd.

List of Selected Compounds

Data File: File Information: 3072621.d
Sample #: 2107284-13A
Client ID:
Spike Level: 0
Dilution Factor: 2.26

Compounds	RT	Peak Area	10
Unknown Peak 1.2968	1.297	4388951	
Unknown Peak 1.6186	1.619	25269	
Unknown Peak 1.6885	1.689	29176	
Unknown Peak 1.8844	1.884	89531	
Unknown Peak 2.4021	2.402	21332	
Unknown Peak 2.8639	2.864	15805	
Unknown Peak 3.2276	3.228	62405	
Unknown Peak 3.4235	3.424	26323	
Unknown Peak 3.9972	3.997	16986	
Unknown Peak 4.9626	4.963	20309	
Unknown Peak 5.1026	5.103	24730	
Bromochloromethane	5.284	1163214	
Unknown Peak 5.3964	5.396	54084	
1,2-Dichloroethane-d4	5.816	814023	
1,4-Difluorobenzene	6.180	1725189	
Unknown Peak 6.3758	6.376	17381	
Unknown Peak 6.6495	6.650	33148	
Unknown Peak 7.1437	7.144	14959	
Toluene-d8	7.387	2055258	
Unknown Peak 7.4446	7.445	36444	
Unknown Peak 7.6165	7.617	14576	
Unknown Peak 7.6451	7.645	64574	
Unknown Peak 7.7311	7.731	13583	
Tetrachloroethene	7.882	110196	
Unknown Peak 8.1036	8.104	16448	
Unknown Peak 8.2612	8.261	17939	
Chlorobenzene-d5	8.619	2179064	
Unknown Peak 9.3213	9.321	11550	
Unknown Peak 9.4216	9.422	12999	
Unknown Peak 9.5219	9.522	15377	
4-Bromofluorobenzene	9.601	2330625	
Unknown Peak 12.716	12.717	11122	
Unknown Peak 12.816	12.817	29276	
Unknown Peak 12.852	12.853	29262	

Air Toxics Ltd.

File Results

Data File: File Information: 3072622.d
Sample #: 2107284-14A
Client ID:
Spike Level: 0
Dilution Factor: 2.32

Compound	Amount (ppbv)	(Area - Blank Area)/ RF * DF
TNMOC (Ref. to Gasolin	0	(11293929.711488 - 11915177.5144896 / 56027)

Air Toxics Ltd.

List of Selected Compounds

Data File: File Information: 3072622.d
Sample #: 2107284-14A
Client ID:
Spike Level: 0
Dilution Factor: 2.32

	Compounds	RT	Peak Area	10
☐	Unknown Peak 1.3106	1.311	4017730	☐
☑	Unknown Peak 1.4505	1.451	80700	☐
☑	Unknown Peak 1.6184	1.618	31336	☐
☑	Unknown Peak 1.7024	1.702	23136	☐
☑	Unknown Peak 1.7304	1.730	21009	☐
☑	Unknown Peak 1.7863	1.786	16471	☐
☑	Unknown Peak 1.8983	1.898	34987	☐
☑	Unknown Peak 2.3740	2.374	19587	☐
☑	Unknown Peak 3.2415	3.242	97524	☐
☑	Unknown Peak 3.4234	3.423	34670	☐
☑	Unknown Peak 3.8711	3.871	26870	☐
☑	Unknown Peak 4.5287	4.529	34718	☐
☑	Unknown Peak 4.8925	4.893	15221	☐
☑	Unknown Peak 5.0184	5.018	25084	☐
☑	Bromochloromethane	5.284	1261795	☐
☑	Unknown Peak 5.3822	5.382	87770	☐
☑	1,2-Dichloroethane-d4	5.816	822620	☐
☑	1,4-Difluorobenzene	6.180	1721337	☐
☑	Unknown Peak 6.3617	6.362	21079	☐
☑	Unknown Peak 7.1507	7.151	17429	☐
☑	Toluene-d8	7.387	1956534	☐
☑	Unknown Peak 7.6522	7.652	211837	☐
☐	Tetrachloroethene	7.881	115476	☐
☑	Unknown Peak 8.4759	8.476	14333	☐
☑	Chlorobenzene-d5	8.619	2164291	☐
☑	Unknown Peak 9.5217	9.522	65122	☐
☑	4-Bromofluorobenzene	9.608	2446137	☐
☑	Unknown Peak 10.796	10.797	26158	☐
☑	Unknown Peak 11.212	11.212	16173	☐

Air Toxics Ltd.

File Results

Data File: File Information: 3072623.d
Sample #: 2107284-15A
Client ID:
Spike Level: 0
Dilution Factor: 2.4

Compound	Amount (ppbv)	(Area - Blank Area)/ RF * DF
TNMOC (Ref. to Gasolin	100	(14274046.3637306 - 11915177.5144896 / 56027

Air Toxics Ltd.

List of Selected Compounds

Data File: File Information: 3072623.d
Sample #: 2107284-15A
Client ID:
Spike Level: 0
Dilution Factor: 2.4

	Compounds	RT	Peak Area	10
☐	Unknown Peak 1.3107	1.311	6802907	☐
☐	Freon 12	1.465	72731	☐
☐	Unknown Peak 1.6185	1.619	41304	☐
☐	Unknown Peak 1.6745	1.675	62250	☐
☐	Unknown Peak 1.7584	1.758	44658	☐
☐	Unknown Peak 1.8984	1.898	68403	☐
☐	Unknown Peak 1.9543	1.954	24346	☐
☐	Unknown Peak 2.2202	2.220	28268	☐
☐	Unknown Peak 2.4021	2.402	86548	☐
☐	Unknown Peak 2.8778	2.878	28216	☐
☐	Unknown Peak 2.9477	2.948	19992	☐
☐	Unknown Peak 3.2276	3.228	66474	☐
☐	Unknown Peak 3.4235	3.424	59920	☐
☐	Unknown Peak 3.9272	3.927	73689	☐
☐	Unknown Peak 4.0111	4.011	29636	☐
☐	Unknown Peak 4.4449	4.445	22956	☐
☐	Unknown Peak 4.8226	4.823	19359	☐
☐	Unknown Peak 4.8926	4.893	27519	☐
☐	Unknown Peak 4.9486	4.949	40278	☐
☑	Bromochloromethane	5.284	1597449	☐
☐	Unknown Peak 5.3823	5.382	196394	☐
☑	Unknown Peak 5.4523	5.452	63813	☐
☑	Unknown Peak 5.5642	5.564	26030	☐
☑	1,2-Dichloroethane-d4	5.816	1088727	☐
☑	1,4-Difluorobenzene	6.166	2308541	☐
☑	Unknown Peak 6.3757	6.376	19577	☐
☑	Unknown Peak 7.1365	7.137	32125	☐
☑	Toluene-d8	7.387	2550164	☐
☐	Unknown Peak 7.5448	7.545	11245	☐
☐	Unknown Peak 7.5949	7.595	16610	☐
☐	Unknown Peak 7.6451	7.645	93348	☐
☐	Unknown Peak 7.7310	7.731	18986	☐
☐	Tetrachloroethene	7.882	170041	☐
☑	Unknown Peak 8.0892	8.089	11363	☐
☑	Unknown Peak 8.1393	8.139	15021	☐
☑	Unknown Peak 8.2683	8.268	32561	☐
☑	Unknown Peak 8.4688	8.469	19442	☐
☑	Chlorobenzene-d5	8.612	2999466	☐
☑	Unknown Peak 9.3857	9.386	12157	☐
☑	Unknown Peak 9.5218	9.522	80691	☐
☑	4-Bromofluorobenzene	9.601	3416919	☐
☐	Unknown Peak 9.6794	9.679	14093	☐
☐	Unknown Peak 9.9444	9.944	16445	☐
☐	Unknown Peak 10.309	10.310	13963	☐
☐	Unknown Peak 10.811	10.811	16517	☐
☐	Unknown Peak 10.961	10.962	32182	☐
☐	Unknown Peak 11.706	11.707	10137	☐

Air Toxics Ltd.

File Results

Data File: File Information: 3072624.d
Sample #: 2107284-16A
Client ID:
Spike Level: 0
Dilution Factor: 2.14

Compound	Amount (ppbv)	(Area - Blank Area)/ RF * DF
TNMOC (Ref. to Gasolin	0	(11056452.396985 - 11915177.5144896 / 56027)

Air Toxics Ltd.

List of Selected Compounds

Data File: File Information: 3072624.d
Sample #: 2107284-16A
Client ID:
Spike Level: 0
Dilution Factor: 2.14

	Compounds	RT	Peak Area	10
☐	Unknown Peak 1.3107	1.311	9154266	☐
☐	Unknown Peak 1.5485	1.549	75178	☐
☑	Unknown Peak 1.6884	1.688	33483	☐
☑	Unknown Peak 1.7304	1.730	20968	☐
☑	Unknown Peak 1.9963	1.996	17566	☐
☑	Unknown Peak 2.1082	2.108	15874	☐
☑	Unknown Peak 3.2415	3.242	47528	☐
☑	Unknown Peak 3.4234	3.423	66961	☐
☑	Unknown Peak 3.5773	3.577	20757	☐
☑	Unknown Peak 4.4868	4.487	38362	☐
☑	Unknown Peak 4.5428	4.543	18427	☐
☑	Unknown Peak 4.6267	4.627	17685	☐
☑	Bromochloromethane	5.284	1272714	☐
☑	Unknown Peak 5.3823	5.382	40990	☐
☑	1,2-Dichloroethane-d4	5.816	843759	☐
☑	1,4-Difluorobenzene	6.180	1788740	☐
☑	Unknown Peak 6.6207	6.621	19266	☐
☑	Toluene-d8	7.387	2006099	☐
☑	Unknown Peak 7.6021	7.602	10199	☐
☐	Tetrachloroethene	7.881	46625	☐
☑	Chlorobenzene-d5	8.619	2187823	☐
☑	Unknown Peak 8.7911	8.791	11211	☐
☑	4-Bromofluorobenzene	9.608	2546575	☐
☑	Unknown Peak 9.9444	9.944	15056	☐
☑	Unknown Peak 10.302	10.303	16411	☐

Air Toxics Ltd.

File Results

Data File: File Information: 3072625.d
Sample #: 2107284-17A
Client ID:
Spike Level: 0
Dilution Factor: 2.04

Compound	Amount (ppbv)	(Area - Blank Area)/ RF * DF
TNMOC (Ref. to Gasolin	1800	(60036910.9906555 - 11915177.5144896 / 56027

Air Toxics Ltd.

List of Selected Compounds

Data File: File Information: 3072625.d
Sample #: 2107284-17A
Client ID:
Spike Level: 0
Dilution Factor: 2.04

Compounds	RT	Peak Area	10
Unknown Peak 1.3105	1.311	1339456	
1,1-Difluoroethane	1.450	68872793	
Unknown Peak 1.7023	1.702	1285960	
Unknown Peak 1.8003	1.800	122401	
Unknown Peak 1.8982	1.898	127319	
Unknown Peak 2.2200	2.220	777429	
Unknown Peak 2.4999	2.500	640491	
Unknown Peak 2.6817	2.682	136735	
Unknown Peak 2.8077	2.808	52793	
Unknown Peak 2.8776	2.878	110040	
Unknown Peak 3.0175	3.018	159597	
Acetone	3.227	304729	
Carbon Disulfide	3.311	155591	
2-Propanol	3.423	125640	
Unknown Peak 3.6052	3.605	1627708	
Unknown Peak 3.6892	3.689	125038	
Unknown Peak 3.8850	3.885	937446	
Unknown Peak 4.0949	4.095	71701	
Hexane	4.179	2579498	
Unknown Peak 4.3048	4.305	19226	
Unknown Peak 4.3608	4.361	82537	
Unknown Peak 4.4167	4.417	163792	
Unknown Peak 4.4727	4.473	18271	
Unknown Peak 4.5986	4.599	58530	
Unknown Peak 4.7106	4.711	637556	
Unknown Peak 4.8085	4.809	853530	
Unknown Peak 4.9204	4.920	28926	
Unknown Peak 5.0184	5.018	997023	
Unknown Peak 5.2143	5.214	33225	
Tetrahydrofuran	5.284	15872	
Bromochloromethane	5.284	1281947	
Unknown Peak 5.3822	5.382	740756	
Cyclohexane	5.438	1065925	
Unknown Peak 5.5501	5.550	1195094	
2,2,4-Trimethylpentane	5.774	2712381	
Benzene	5.788	275945	
1,2-Dichloroethane-d4	5.816	8112101	
Heptane	5.942	339589	
Unknown Peak 6.1097	6.110	39779	
1,4-Difluorobenzene	6.180	1864969	
Unknown Peak 6.2916	6.292	43127	
Unknown Peak 6.4595	6.460	1652590	
Unknown Peak 6.5435	6.544	242353	
Unknown Peak 6.6278	6.628	150147	
Unknown Peak 6.6779	6.678	228305	
Unknown Peak 6.8069	6.807	1975257	
Unknown Peak 6.9143	6.914	2713698	
Unknown Peak 7.0862	7.086	466119	
Unknown Peak 7.2151	7.215	668552	
Unknown Peak 7.2939	7.294	558351	
Toluene-d8	7.387	2023763	
Toluene	7.444	3102361	

Air Toxics Ltd.

List of Selected Compounds

Data File: File Information: 3072625.d
Sample #: 2107284-17A
Client ID:
Spike Level: 0
Dilution Factor: 2.04

Compounds	RT	Peak Area	10
Unknown Peak 7.5518	7.552	60689	
Unknown Peak 7.602	7.602	98875	
Unknown Peak 7.6521	7.652	425016	
Unknown Peak 7.6951	7.695	382866	
Unknown Peak 7.7595	7.760	73783	
Tetrachloroethene	7.881	359426	
Unknown Peak 7.9315	7.931	74894	
Unknown Peak 8.0174	8.017	86247	
Unknown Peak 8.0819	8.082	116172	
Unknown Peak 8.1249	8.125	431946	
Unknown Peak 8.2251	8.225	113769	
Unknown Peak 8.3111	8.311	201571	
Unknown Peak 8.3899	8.390	48836	
Unknown Peak 8.4615	8.462	57038	
Unknown Peak 8.5546	8.555	90660	
Chlorobenzene-d5	8.619	2243674	
Ethyl Benzene	8.691	379074	
m,p-Xylene	8.784	978514	
Unknown Peak 8.8483	8.848	42289	
Unknown Peak 8.9271	8.927	35817	
Unknown Peak 9.0202	9.020	269756	
o-Xylene	9.128	245613	
Unknown Peak 9.228	9.228	97739	
Unknown Peak 9.2638	9.264	42218	
Unknown Peak 9.3068	9.307	23819	
Unknown Peak 9.3712	9.371	765897	
Unknown Peak 9.4572	9.457	44475	
Unknown Peak 9.5216	9.522	5298836	
4-Bromofluorobenzene	9.608	2680445	
Unknown Peak 9.7580	9.758	22783	
4-Ethyltoluene	9.830	362756	
1,3,5-Trimethylbenzene	9.908	73068	
Unknown Peak 9.9514	9.951	65300	
Unknown Peak 10.087	10.088	199563	
1,2,4-Trimethylbenzene	10.224	150864	
Unknown Peak 10.302	10.302	168002	
Unknown Peak 10.352	10.353	73620	
Unknown Peak 10.424	10.424	71562	
Unknown Peak 10.517	10.517	79824	
Unknown Peak 10.546	10.546	21722	
Unknown Peak 10.610	10.610	62863	
Unknown Peak 10.689	10.689	45583	
Unknown Peak 10.825	10.825	173851	
Unknown Peak 11.054	11.055	670121	
Unknown Peak 11.233	11.234	24689	
Unknown Peak 11.362	11.363	27671	
Unknown Peak 11.477	11.477	21609	
Unknown Peak 11.541	11.542	17856	
Unknown Peak 11.598	11.599	16149	
Unknown Peak 11.720	11.721	59653	
Unknown Peak 12.322	12.322	15066	

Air Toxics Ltd.

File Results

Data File: File Information: 3072630.d
Sample #: 2107284-18A
Client ID:
Spike Level: 0
Dilution Factor: 2.01

Compound	Amount (ppbv)	(Area - Blank Area)/ RF * DF
TNMOC (Ref. to Gasolin	95	(14571647.3089801 - 11915177.5144896 / 56027

Air Toxics Ltd.

List of Selected Compounds

Data File: File Information: 3072630.d
Sample #: 2107284-18A
Client ID:
Spike Level: 0
Dilution Factor: 2.01

Compounds	RT	Peak Area	10
Unknown Peak 1.3105	1.311	6759311	
1,1-Difluoroethane	1.450	697703	
Freon 12	1.464	20973	
Unknown Peak 1.6883	1.688	28365	
Unknown Peak 1.7302	1.730	34092	
Unknown Peak 1.9121	1.912	84337	
Unknown Peak 2.5977	2.598	16136	
Unknown Peak 2.8216	2.822	16997	
Unknown Peak 2.8776	2.878	24376	
Unknown Peak 3.2413	3.241	47144	
Unknown Peak 3.3113	3.311	18269	
2-Propanol	3.423	156830	
Unknown Peak 3.5911	3.591	82776	
Unknown Peak 3.7311	3.731	19447	
Unknown Peak 3.8710	3.871	109216	
Hexane	4.179	1580040	
Unknown Peak 4.8084	4.808	160944	
Unknown Peak 5.0183	5.018	981795	
Bromochloromethane	5.284	1277096	
Unknown Peak 5.3821	5.382	130566	
Unknown Peak 5.62	5.620	31232	
1,2-Dichloroethane-d4	5.816	840566	
Unknown Peak 6.0677	6.068	25739	
1,4-Difluorobenzene	6.180	1949279	
Unknown Peak 6.6205	6.621	27392	
Toluene-d8	7.387	2047057	
Unknown Peak 7.6520	7.652	425538	
Tetrachloroethene	7.881	691509	
Unknown Peak 8.0603	8.060	13058	
Unknown Peak 8.0961	8.096	20911	
Chlorobenzene-d5	8.619	2183614	
Unknown Peak 8.7909	8.791	11565	
Unknown Peak 9.2350	9.235	12349	
Unknown Peak 9.3138	9.314	14036	
Unknown Peak 9.5216	9.522	5864110	
4-Bromofluorobenzene	9.600	2856574	
Unknown Peak 9.8081	9.808	61928	
Unknown Peak 9.9370	9.937	37787	
Unknown Peak 10.216	10.216	41197	
Unknown Peak 10.295	10.295	57282	
Unknown Peak 10.417	10.417	40468	
Unknown Peak 10.682	10.682	11525	
Unknown Peak 11.047	11.047	862765	
Unknown Peak 11.713	11.713	53087	
Unknown Peak 12.616	12.616	12151	

Air Toxics Ltd.

File Results

Data File: File Information: 3072627.d
Sample #: 2107284-19A
Client ID:
Spike Level: 0
Dilution Factor: 2.25

Compound	Amount (ppbv)	(Area - Blank Area)/ RF * DF
TNMOC (Ref. to Gasolin	93	(14238609.7726704 - 11915177.5144896 / 56027

Air Toxics Ltd.

List of Selected Compounds

Data File: File Information: 3072627.d
Sample #: 2107284-19A
Client ID:
Spike Level: 0
Dilution Factor: 2.25

Compounds	RT	Peak Area	10
Unknown Peak 1.2967	1.297	16228249	
Freon 12	1.465	649655	
Unknown Peak 1.7025	1.703	33445	
Unknown Peak 1.8844	1.884	47678	
Unknown Peak 2.4161	2.416	22115	
Unknown Peak 2.5700	2.570	26186	
Unknown Peak 3.2416	3.242	112845	
Unknown Peak 3.4375	3.438	43129	
Unknown Peak 3.7173	3.717	14704	
tert-Butyl alcohol	3.899	79253	
Unknown Peak 4.2630	4.263	20013	
Unknown Peak 4.3749	4.375	15872	
Unknown Peak 4.7387	4.739	20364	
Unknown Peak 4.9626	4.963	19407	
Unknown Peak 5.0325	5.033	24682	
Bromochloromethane	5.284	1487690	
Unknown Peak 5.3963	5.396	266140	
Unknown Peak 5.4943	5.494	130954	
1,2-Dichloroethane-d4	5.816	960175	
1,4-Difluorobenzene	6.166	2114708	
Unknown Peak 6.3618	6.362	37813	
Unknown Peak 6.6351	6.635	14956	
Unknown Peak 6.7139	6.714	22438	
Unknown Peak 6.8428	6.843	10404	
Toluene-d8	7.387	2343585	
Unknown Peak 7.6451	7.645	371141	
Unknown Peak 7.7382	7.738	14235	
Tetrachloroethene	7.874	278833	
Chlorobenzene-d5	8.612	2540897	
Unknown Peak 8.7769	8.777	18818	
Unknown Peak 9.5361	9.536	279810	
4-Bromofluorobenzene	9.601	3058645	
Unknown Peak 9.9516	9.952	18749	
Unknown Peak 10.316	10.317	10595	
Unknown Peak 10.417	10.417	17402	
Unknown Peak 10.517	10.518	12072	
Unknown Peak 10.682	10.682	12570	
Unknown Peak 10.961	10.962	18247	
Unknown Peak 11.040	11.040	12087	
Unknown Peak 11.104	11.105	48817	
Unknown Peak 11.312	11.313	14354	
Unknown Peak 11.391	11.391	10273	
Unknown Peak 13.132	13.132	24040	

Air Toxics Ltd.

File Results

Data File: File Information: 3072628.d
Sample #: 2107284-20A
Client ID:
Spike Level: 0
Dilution Factor: 2.42

Compound	Amount (ppbv)	(Area - Blank Area)/ RF * DF
TNMOC (Ref. to Gasolin	76	(13674672.9218113 - 11915177.5144896 / 56027

Air Toxics Ltd.

List of Selected Compounds

Data File: File Information: 3072628.d
Sample #: 2107284-20A
Client ID:
Spike Level: 0
Dilution Factor: 2.42

Compounds	RT	Peak Area	10
Unknown Peak 1.2967	1.297	10006216	
Freon 12	1.451	380563	
Unknown Peak 1.5206	1.521	131048	
Unknown Peak 1.6325	1.633	143080	
Unknown Peak 1.6745	1.675	92123	
Unknown Peak 1.7585	1.759	77288	
Unknown Peak 1.8984	1.898	200820	
Unknown Peak 2.2202	2.220	61892	
Unknown Peak 2.4021	2.402	393197	
Unknown Peak 2.7519	2.752	84844	
Unknown Peak 2.8638	2.864	123690	
Unknown Peak 3.1017	3.102	36122	
Unknown Peak 3.2416	3.242	67359	
Unknown Peak 3.2976	3.298	52985	
2-Propanol	3.466	135464	
Unknown Peak 3.7873	3.787	22466	
Unknown Peak 3.9132	3.913	201466	
Unknown Peak 4.4589	4.459	26917	
Unknown Peak 4.9206	4.921	73103	
Bromochloromethane	5.284	1231651	
Unknown Peak 5.4103	5.410	381861	
Unknown Peak 5.5363	5.536	63681	
1,2-Dichloroethane-d4	5.816	900564	
1,4-Difluorobenzene	6.180	1744898	
Unknown Peak 6.2778	6.278	26853	
Unknown Peak 6.6495	6.649	11655	
Unknown Peak 6.7855	6.786	21611	
Unknown Peak 7.1509	7.151	39707	
Toluene-d8	7.387	2003348	
Unknown Peak 7.4517	7.452	61596	
Unknown Peak 7.5448	7.545	13042	
Unknown Peak 7.6523	7.652	189922	
Unknown Peak 7.7311	7.731	31150	
Tetrachloroethene	7.882	1364959	
Unknown Peak 8.0821	8.082	37681	
Unknown Peak 8.1465	8.147	57478	
Unknown Peak 8.1967	8.197	26500	
Unknown Peak 8.2755	8.275	74797	
Unknown Peak 8.4832	8.483	46974	
Chlorobenzene-d5	8.619	2208303	
Unknown Peak 8.7625	8.763	23679	
Unknown Peak 8.8055	8.806	29764	
Unknown Peak 9.2281	9.228	15588	
Unknown Peak 9.2926	9.293	22833	
Unknown Peak 9.5290	9.529	165137	
4-Bromofluorobenzene	9.601	2484409	
Unknown Peak 9.9444	9.944	13130	
Unknown Peak 10.324	10.324	13100	
Unknown Peak 10.410	10.410	10668	
Unknown Peak 10.517	10.518	19472	
Unknown Peak 10.682	10.682	26449	
Unknown Peak 10.968	10.969	11860	

List of Selected Compounds

Data File: File Information: 3072628.d
Sample #: 2107284-20A
Client ID:
Spike Level: 0
Dilution Factor: 2.42

Compounds	RT	Peak Area	10
Unknown Peak 11.047	11.048	11255	
Unknown Peak 11.104	11.105	21238	
Unknown Peak 11.384	11.384	28524	
Unknown Peak 11.534	11.535	16716	

Air Toxics Ltd.

File Results

Data File: File Information: 3072710.d
Sample #: 2107284-21A
Client ID:
Spike Level: 0
Dilution Factor: 2.2

Compound	Amount (ppbv)	(Area - Blank Area)/ RF * DF
TNMOC (Ref. to Gasolin	360	(22176146.7755316 - 12649746.8507207 / 5749

Air Toxics Ltd.

List of Selected Compounds

Data File: File Information: 3072710.d
Sample #: 2107284-21A
Client ID:
Spike Level: 0
Dilution Factor: 2.2

Compounds	RT	Peak Area
Unknown Peak 1.2548	1.255	49666
Unknown Peak 1.3108	1.311	557926
1,1-Difluoroethane	1.437	3330554
Unknown Peak 1.6886	1.689	328905
Unknown Peak 1.7865	1.787	21891
Unknown Peak 1.8844	1.884	93886
Unknown Peak 2.2063	2.206	52969
Unknown Peak 2.4161	2.416	37626
Unknown Peak 2.4861	2.486	48106
Unknown Peak 2.6960	2.696	18019
Unknown Peak 2.7939	2.794	47908
Unknown Peak 2.9898	2.990	18670
Unknown Peak 3.1437	3.144	56414
Acetone	3.242	522105
Carbon Disulfide	3.284	84518
2-Propanol	3.466	198425
Unknown Peak 3.5775	3.578	98493
Unknown Peak 3.8573	3.857	128392
Hexane	4.165	609871
Unknown Peak 4.5429	4.543	18517
Unknown Peak 4.6968	4.697	43482
Unknown Peak 4.7947	4.795	112897
Unknown Peak 4.9067	4.907	28496
Unknown Peak 5.0466	5.047	1006905
Bromochloromethane	5.271	1402773
Tetrahydrofuran	5.285	8133
Unknown Peak 5.4244	5.424	252632
Unknown Peak 5.5643	5.564	206896
Unknown Peak 5.6063	5.606	87840
2,2,4-Trimethylpentane	5.760	113812
Benzene	5.788	61255
1,2-Dichloroethane-d4	5.816	1357573
Heptane	5.942	35685
1,4-Difluorobenzene	6.166	1947397
Unknown Peak 6.4598	6.460	74387
Unknown Peak 6.7999	6.800	127203
Unknown Peak 6.9074	6.907	147568
Unknown Peak 7.0793	7.079	35583
Unknown Peak 7.2082	7.208	35775
4-Methyl-2-pentanone	7.323	89912
Toluene-d8	7.380	2249441
Toluene	7.437	1683764
Unknown Peak 7.6523	7.652	1697990
Tetrachloroethene	7.874	905728
Unknown Peak 8.0176	8.018	13703
Unknown Peak 8.0678	8.068	61307
Unknown Peak 8.1179	8.118	96942
Unknown Peak 8.2254	8.225	30327
Unknown Peak 8.3113	8.311	89095
Unknown Peak 8.3901	8.390	27990
Unknown Peak 8.5549	8.555	11371
Chlorobenzene-d5	8.612	2468387

List of Selected Compounds

Data File: File Information: 3072710.d
Sample #: 2107284-21A
Client ID:
Spike Level: 0
Dilution Factor: 2.2

Compounds	RT	Peak Area	10
Ethyl Benzene	8.684	424107	
m,p-Xylene	8.777	952268	
Unknown Peak 9.0133	9.013	61995	
o-Xylene	9.121	295701	
Unknown Peak 9.1781	9.178	41698	
Unknown Peak 9.2354	9.235	43281	
Unknown Peak 9.2640	9.264	42154	
Unknown Peak 9.3715	9.371	392772	
Unknown Peak 9.4574	9.457	41134	
Unknown Peak 9.5219	9.522	8434982	
4-Bromofluorobenzene	9.601	3272940	
Unknown Peak 9.7511	9.751	77529	
4-Ethyltoluene	9.823	443448	
1,3,5-Trimethylbenzene	9.902	156030	
Unknown Peak 9.9445	9.945	101422	
Unknown Peak 10.080	10.081	174928	
1,2,4-Trimethylbenzene	10.224	304579	
Unknown Peak 10.302	10.303	212001	
Unknown Peak 10.345	10.346	65137	
Unknown Peak 10.417	10.417	153872	
Unknown Peak 10.467	10.467	77959	
Unknown Peak 10.517	10.518	113915	
Unknown Peak 10.603	10.604	68411	
Unknown Peak 10.682	10.682	76688	
Unknown Peak 10.746	10.747	17319	
Unknown Peak 10.804	10.804	190497	
Unknown Peak 10.961	10.962	73516	
Unknown Peak 11.047	11.048	3309530	
Unknown Peak 11.126	11.126	27377	
Unknown Peak 11.233	11.234	15265	
Unknown Peak 11.298	11.298	16269	
Unknown Peak 11.384	11.384	68905	
Unknown Peak 11.470	11.470	21349	
Unknown Peak 11.527	11.528	29044	
Unknown Peak 11.592	11.592	15000	
Unknown Peak 11.713	11.714	98374	
Unknown Peak 11.771	11.771	12741	
Unknown Peak 12.093	12.093	12359	
Unknown Peak 12.322	12.323	13624	
Unknown Peak 12.602	12.602	225766	
Unknown Peak 12.859	12.860	10931	
Unknown Peak 13.676	13.676	26174	

Air Toxics Ltd.

File Results

Data File: File Information: 3072711.d
Sample #: 2107284-22A
Client ID:
Spike Level: 0
Dilution Factor: 2.21

Compound	Amount (ppbv)	(Area - Blank Area)/ RF * DF
TNMOC (Ref. to Gasolin	77	(14643403.1089959 - 12649746.8507207 / 5749

Air Toxics Ltd.

List of Selected Compounds

Data File: File Information: 3072711.d
Sample #: 2107284-22A
Client ID:
Spike Level: 0
Dilution Factor: 2.21

	Compounds	RT	Peak Area	10
☐	Unknown Peak 1.3106	1.311	9459220	☐
☐	1,1-Difluoroethane	1.451	26188285	☐
☐	Unknown Peak 1.8003	1.800	29223	☐
☐	Unknown Peak 1.9122	1.912	59134	☐
☐	Unknown Peak 1.9542	1.954	23261	☐
☐	Unknown Peak 2.4299	2.430	29530	☐
☐	Unknown Peak 3.2414	3.241	73562	☐
☐	Unknown Peak 3.3114	3.311	34393	☐
☐	2-Propanol	3.423	168098	☐
☑	Unknown Peak 3.5912	3.591	72220	☐
☑	Unknown Peak 3.8711	3.871	96166	☐
☑	Hexane	4.179	660659	☐
☑	Unknown Peak 4.7945	4.795	108016	☐
☐	Unknown Peak 5.0184	5.018	866570	☐
☑	Bromochloromethane	5.284	1452009	☐
☑	Unknown Peak 5.3822	5.382	59434	☐
☑	Unknown Peak 5.4242	5.424	43435	☐
☑	Unknown Peak 5.6340	5.634	16784	☐
☑	1,2-Dichloroethane-d4	5.816	1001988	☐
☑	Unknown Peak 5.9279	5.928	24877	☐
☑	Unknown Peak 6.0678	6.068	24415	☐
☑	1,4-Difluorobenzene	6.180	2118630	☐
☑	Unknown Peak 6.4736	6.474	18150	☐
☑	Unknown Peak 6.6564	6.656	11210	☐
☑	Unknown Peak 6.8069	6.807	14527	☐
☑	Unknown Peak 6.9143	6.914	22388	☐
☑	Toluene-d8	7.387	2343530	☐
☑	Toluene	7.437	13939	☐
☑	Unknown Peak 7.5948	7.595	15517	☐
☐	Unknown Peak 7.6521	7.652	942121	☐
☐	Unknown Peak 7.7739	7.774	66353	☐
☐	Tetrachloroethene	7.881	1831496	☐
☑	Unknown Peak 8.0604	8.060	18839	☐
☑	Unknown Peak 8.0962	8.096	29978	☐
☑	Chlorobenzene-d5	8.619	2507350	☐
☑	Unknown Peak 8.6836	8.684	25312	☐
☑	Unknown Peak 8.7839	8.784	20907	☐
☑	Unknown Peak 9.1349	9.135	11994	☐
☑	Unknown Peak 9.3211	9.321	14083	☐
☐	Unknown Peak 9.5217	9.522	7611122	☐
☑	4-Bromofluorobenzene	9.601	3293394	☐
☑	Unknown Peak 9.8082	9.808	94469	☐
☑	Unknown Peak 9.9443	9.944	20989	☐
☑	Unknown Peak 10.109	10.109	16441	☐
☑	Unknown Peak 10.216	10.217	55545	☐
☑	Unknown Peak 10.302	10.302	95255	☐
☑	Unknown Peak 10.417	10.417	48434	☐
☑	Unknown Peak 10.517	10.517	28739	☐
☑	Unknown Peak 10.674	10.675	27414	☐
☑	Unknown Peak 10.803	10.804	29014	☐
☑	Unknown Peak 10.968	10.969	16085	☐
☐	Unknown Peak 11.047	11.047	1959414	☐

Air Toxics Ltd.

List of Selected Compounds

Data File: File Information: 3072711.d
Sample #: 2107284-22A
Client ID:
Spike Level: 0
Dilution Factor: 2.21

	Compounds	RT	Peak Area	10
☑	Unknown Peak 11.384	11.384	28213	☐
☑	Unknown Peak 11.713	11.714	97986	☐
☑	Unknown Peak 12.601	12.602	45068	☐

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File Results

Data File: File Information: 3072712.d
Sample #: 2107284-23A
Client ID:
Spike Level: 0
Dilution Factor: 2.13

Compound	Amount (ppbv)	(Area - Blank Area)/ RF * DF
TNMOC (Ref. to Gasolin	46	(13904815.7225638 - 12649746.8507207 / 5749

Air Toxics Ltd.

List of Selected Compounds

Data File: File Information: 3072712.d
Sample #: 2107284-23A
Client ID:
Spike Level: 0
Dilution Factor: 2.13

Compounds	RT	Peak Area	10
Unknown Peak 1.3106	1.311	7350886	
1,1-Difluoroethane	1.451	251647	
Unknown Peak 1.6044	1.604	32686	
Unknown Peak 1.7023	1.702	72615	
Unknown Peak 1.8143	1.814	30878	
Unknown Peak 1.8842	1.884	37859	
Unknown Peak 3.2414	3.241	51325	
Carbon Disulfide	3.311	98455	
2-Propanol	3.423	67427	
Bromochloromethane	5.284	1493582	
Unknown Peak 5.3822	5.382	57842	
1,2-Dichloroethane-d4	5.816	966176	
1,4-Difluorobenzene	6.180	2167232	
Unknown Peak 6.3756	6.376	15900	
Unknown Peak 6.6206	6.621	19267	
Unknown Peak 6.6564	6.656	19154	
Unknown Peak 6.7137	6.714	11394	
Unknown Peak 7.1507	7.151	10750	
Toluene-d8	7.387	2483939	
Unknown Peak 7.602	7.602	30457	
Unknown Peak 7.6521	7.652	173256	
Tetrachloroethene	7.881	790543	
Unknown Peak 8.0962	8.096	14272	
Chlorobenzene-d5	8.619	2567886	
Unknown Peak 9.3211	9.321	12299	
Unknown Peak 9.3784	9.378	15174	
Unknown Peak 9.4429	9.443	11305	
Unknown Peak 9.5360	9.536	355349	
4-Bromofluorobenzene	9.601	3108282	
Unknown Peak 9.9443	9.944	24572	
Unknown Peak 10.331	10.331	15316	
Unknown Peak 10.417	10.417	19468	
Unknown Peak 10.674	10.675	23985	
Unknown Peak 11.047	11.047	18857	
Unknown Peak 11.384	11.384	11275	
Unknown Peak 13.139	13.139	20594	
Unknown Peak 13.676	13.676	11868	

Air Toxics Ltd.

File Results

Data File: File Information: 3072713.d
Sample #: 2107284-24A
Client ID:
Spike Level: 0
Dilution Factor: 2.18

Compound	Amount (ppbv)	(Area - Blank Area)/ RF * DF
TNMOC (Ref. to Gasolin	85	(14890587.5860796 - 12649746.8507207 / 5749

Air Toxics Ltd.

List of Selected Compounds

Data File: File Information: 3072713.d
Sample #: 2107284-24A
Client ID:
Spike Level: 0
Dilution Factor: 2.18

Compounds	RT	Peak Area	10
Unknown Peak 1.2967	1.297	4956182	
Unknown Peak 1.4786	1.479	1238473	
Unknown Peak 1.6045	1.605	130337	
Unknown Peak 1.7864	1.786	23623	
Unknown Peak 1.8844	1.884	60938	
Unknown Peak 2.2062	2.206	39143	
Unknown Peak 2.3321	2.332	21628	
Unknown Peak 2.7799	2.780	31123	
Unknown Peak 3.2416	3.242	81416	
2-Propanol	3.466	75070	
Unknown Peak 3.9132	3.913	27501	
Unknown Peak 4.8926	4.893	21435	
Unknown Peak 4.9626	4.963	20435	
Bromochloromethane	5.284	1381486	
Chloroform	5.340	152742	
Unknown Peak 5.4103	5.410	121185	
Unknown Peak 5.5502	5.550	36180	
1,2-Dichloroethane-d4	5.816	891745	
1,4-Difluorobenzene	6.166	1988379	
Trichloroethene	6.362	48766	
Unknown Peak 6.4457	6.446	34085	
Unknown Peak 6.6709	6.671	17976	
Unknown Peak 6.7927	6.793	28590	
Toluene-d8	7.387	2254365	
Toluene	7.437	260760	
Unknown Peak 7.6523	7.652	15948	
Tetrachloroethene	7.874	582459	
Unknown Peak 8.0892	8.089	35358	
Unknown Peak 8.1465	8.147	34449	
Unknown Peak 8.2110	8.211	14902	
Unknown Peak 8.2754	8.275	32887	
Unknown Peak 8.4760	8.476	33490	
Chlorobenzene-d5	8.612	2454024	
Ethyl Benzene	8.691	89888	
m,p-Xylene	8.784	170054	
Unknown Peak 9.0132	9.013	18010	
o-Xylene	9.121	78586	
Unknown Peak 9.221	9.221	13766	
Unknown Peak 9.3069	9.307	15319	
Unknown Peak 9.3714	9.371	33361	
Unknown Peak 9.5361	9.536	180259	
4-Bromofluorobenzene	9.601	2811044	
Unknown Peak 9.7582	9.758	30808	
4-Ethyltoluene	9.830	148376	
Unknown Peak 9.9015	9.902	48897	
Unknown Peak 9.9373	9.937	25507	
Unknown Peak 10.087	10.088	75465	
1,2,4-Trimethylbenzene	10.224	167935	
Unknown Peak 10.324	10.324	27001	
Unknown Peak 10.345	10.346	18019	
Unknown Peak 10.417	10.417	82481	
Unknown Peak 10.467	10.467	60497	

Air Toxics Ltd.

List of Selected Compounds

Data File: File Information: 3072713.d
Sample #: 2107284-24A
Client ID:
Spike Level: 0
Dilution Factor: 2.18

Compounds	RT	Peak Area	10
Unknown Peak 10.596	10.596	67651	
Unknown Peak 10.746	10.747	40039	
Unknown Peak 10.789	10.790	97027	
Unknown Peak 10.968	10.969	24683	
Unknown Peak 11.054	11.055	70195	
Unknown Peak 11.126	11.126	56008	
Unknown Peak 11.205	11.205	19040	
Unknown Peak 11.240	11.241	29229	
Unknown Peak 11.391	11.391	21814	
Unknown Peak 11.470	11.470	16480	
Unknown Peak 11.534	11.535	64212	
Unknown Peak 11.706	11.707	21613	
Unknown Peak 11.763	11.764	17240	
Unknown Peak 11.907	11.907	72427	
Unknown Peak 12.229	12.229	13238	
Unknown Peak 12.322	12.323	30273	
Unknown Peak 12.465	12.466	10724	
Unknown Peak 12.558	12.559	17846	
Unknown Peak 12.609	12.609	12190	

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File Results

Data File: File Information: 3072714.d
Sample #: 2107284-25A
Client ID:
Spike Level: 0
Dilution Factor: 2.15

Compound	Amount (ppbv)	(Area - Blank Area)/ RF * DF
TNMOC (Ref. to Gasolin	85	(14920857.77333 - 12649746.8507207 / 57499) *

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List of Selected Compounds

Data File: File Information: 3072714.d
Sample #: 2107284-25A
Client ID:
Spike Level: 0
Dilution Factor: 2.15

Compounds	RT	Peak Area	10
Unknown Peak 1.3107	1.311	10008467	
Unknown	1.311	10008467	
1,1-Difluoroethane	1.451	2137691	
Ethane, 1-chloro-1,1-difluoro-	1.605	295978	
Unknown Peak 1.6745	1.675	41993	
Unknown Peak 1.8844	1.884	145751	
Unknown	1.884	145751	
Unknown Peak 2.0383	2.038	18112	
Unknown Peak 2.2622	2.262	42821	
Unknown Peak 2.3321	2.332	29754	
Unknown Peak 2.4161	2.416	28830	
Ethanol	2.794	85423	
Unknown Peak 2.8638	2.864	59314	
Unknown Peak 3.0457	3.046	24372	
Unknown Peak 3.1157	3.116	29868	
Acetone	3.242	233815	
2-Propanol	3.438	69465	
Unknown Peak 3.8992	3.899	34271	
Unknown Peak 4.6688	4.669	19111	
Unknown Peak 4.8926	4.893	20325	
Unknown Peak 4.9626	4.963	64238	
Unknown Peak 5.0885	5.089	67036	
Bromochloromethane	5.284	1481503	
Chloroform	5.340	206427	
Unknown Peak 5.3964	5.396	449797	
Unknown	5.396	449797	
Unknown Peak 5.6062	5.606	23444	
1,2-Dichloroethane-d4	5.816	1029663	
1,4-Difluorobenzene	6.166	2161582	
Trichloroethene	6.362	83118	
Unknown Peak 6.6566	6.657	15119	
Unknown Peak 6.9145	6.915	13106	
Unknown Peak 7.1437	7.144	12725	
Toluene-d8	7.387	2391872	
Toluene	7.437	252596	
Cyclotrisiloxane, hexamethyl-	7.645	346981	
Unknown Peak 7.7311	7.731	17745	
Tetrachloroethene	7.882	846155	
Unknown Peak 8.0821	8.082	36913	
Unknown Peak 8.1465	8.147	50194	
Unknown Peak 8.2110	8.211	18766	
Unknown Peak 8.2683	8.268	62920	
Unknown Peak 8.4760	8.476	51543	
Chlorobenzene-d5	8.612	2591919	
Unknown Peak 9.2282	9.228	11727	
Unknown Peak 9.3069	9.307	50631	
Unknown Peak 9.4072	9.407	11848	
Cyclotetrasiloxane, octamethyl-	9.522	192498	
4-Bromofluorobenzene	9.601	3035365	
Unknown Peak 9.9516	9.952	15954	
Unknown Peak 10.324	10.324	18086	
Unknown Peak 10.402	10.403	42043	

Air Toxics Ltd.

File Results

Data File: File Information: 3072715.d
Sample #: 2107284-26A
Client ID:
Spike Level: 0
Dilution Factor: 2.15

Compound	Amount (ppbv)	(Area - Blank Area)/ RF * DF
TNMOC (Ref. to Gasolin	0	(11617677.4391644 - 12649746.8507207 / 5749

Air Toxics Ltd.

List of Selected Compounds

Data File: File Information: 3072715.d
Sample #: 2107284-26A
Client ID:
Spike Level: 0
Dilution Factor: 2.15

Compounds	RT	Peak Area	10
Unknown Peak 1.2968	1.297	19536020	
1,1-Difluoroethane	1.437	1573443	
Unknown Peak 1.6886	1.689	115635	
Unknown Peak 1.7585	1.759	89171	
Unknown Peak 1.8844	1.884	445594	
Unknown Peak 2.4441	2.444	22744	
Unknown Peak 2.7939	2.794	37061	
Unknown Peak 3.1297	3.130	28656	
Acetone	3.242	205216	
Unknown Peak 3.4655	3.466	47494	
Unknown Peak 3.9133	3.913	26026	
Unknown Peak 4.2211	4.221	36574	
Unknown Peak 4.5149	4.515	22922	
Unknown Peak 4.8927	4.893	21395	
Unknown Peak 4.9627	4.963	40188	
Unknown Peak 5.0886	5.089	33368	
Bromochloromethane	5.285	1222570	
Unknown Peak 5.4244	5.424	53592	
Unknown Peak 5.5923	5.592	20956	
1,2-Dichloroethane-d4	5.816	773791	
Unknown Peak 6.0540	6.054	17225	
1,4-Difluorobenzene	6.180	1698042	
Unknown Peak 6.3758	6.376	31888	
Unknown Peak 6.6638	6.664	23530	
Unknown Peak 6.7856	6.786	10591	
Toluene-d8	7.387	2028887	
Unknown Peak 7.6595	7.660	25151	
Tetrachloroethene	7.882	181470	
Unknown Peak 8.0893	8.089	19010	
Chlorobenzene-d5	8.619	2146550	
Unknown Peak 9.3213	9.321	12962	
Unknown Peak 9.5362	9.536	56364	
4-Bromofluorobenzene	9.601	2466022	
Unknown Peak 9.6866	9.687	14137	
Unknown Peak 9.9445	9.945	13289	
Unknown Peak 10.324	10.324	53410	
Unknown Peak 10.402	10.403	22240	
Unknown Peak 10.675	10.675	26031	
Unknown Peak 11.047	11.048	13797	
Unknown Peak 11.391	11.391	16448	

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Curve Response Factors
3072708.d

Compound	Ave. RF	% RSD
TPH	57499	0.00014

LD 7/27/4

Air Toxics Ltd.

File Response Factors

Data File: 3072708.d
Sample #: 3234-26A
Client ID: Calib
Spike Level: 500
Dilution Factor: 1

Compound	RF	RT
TPH	57498.919087980	

Air Toxics Ltd.

List of Selected Compounds

Data File: 3072708.d
Sample #: 3234-26A
Client ID: Calib
Spike Level: 500
Dilution Factor: 1

	Compounds	% Area	RT	Peak Area	10
☑	Unknown Peak 1.3247	0.31	1.325	127628	
☑	Unknown Peak 1.5766	0.08	1.577	32671	
☑	Butane	0.89	1.717	368957	
☑	Unknown Peak 1.7725	0.12	1.773	51676	
☑	Unknown Peak 1.8984	0.08	1.898	35001	
☑	Unknown Peak 2.0943	0.04	2.094	18238	
☑	Isopentane	3.53	2.220	1463793	
☑	Unknown Peak 2.5001	1.21	2.500	501013	
☑	Unknown Peak 2.668	0.24	2.668	99456	
☑	Ethanol	1.44	2.766	595766	
☑	Unknown Peak 2.8778	0.41	2.878	170322	
☑	Unknown Peak 3.0177	0.11	3.018	46768	
☑	Unknown Peak 3.2276	0.06	3.228	24594	
☑	Unknown Peak 3.5494	1.57	3.549	652423	
☑	Unknown Peak 3.5914	1.13	3.591	467709	
☑	Unknown Peak 3.8713	0.72	3.871	297754	
☑	Unknown Peak 4.0951	0.13	4.095	52892	
☑	Hexane	0.81	4.179	337001	
☑	Unknown Peak 4.361	0.13	4.361	54946	
☑	Unknown Peak 4.4029	0.12	4.403	50038	
☑	Unknown Peak 4.4869	0.09	4.487	37579	
☑	Unknown Peak 4.5569	0.09	4.557	35378	
☑	Unknown Peak 4.7108	1.25	4.711	516200	
☑	Unknown Peak 4.7947	0.59	4.795	244966	
☑	Unknown Peak 4.8647	0.12	4.865	51341	
☑	Bromochloromethane	4.03	5.284	1671004	
☑	Tetrahydrofuran	0.57	5.382	238134	
☑	Cyclohexane	1.41	5.438	583467	
☑	Unknown Peak 5.5503	0.69	5.550	285727	
☑	2,2,4-Trimethylpentane	12.16	5.760	5041726	
☐	Benzene	0.10	5.788	39815	
☑	1,2-Dichloroethane-d4	5.78	5.816	2397489	
☑	Heptane	0.86	5.942	355898	
☑	Unknown Peak 6.082	0.22	6.082	92310	
☑	1,4-Difluorobenzene	6.16	6.166	2554203	
☑	Unknown Peak 6.3058	0.14	6.306	58101	
☑	Methylcyclohexane	1.88	6.460	781223	
☑	Unknown Peak 6.5437	0.76	6.544	315544	
☑	Unknown Peak 6.6208	0.16	6.621	66293	
☑	Unknown Peak 6.671	0.04	6.671	14910	
☑	Unknown Peak 6.7999	3.61	6.800	1496635	
☑	Unknown Peak 6.9073	5.75	6.907	2381812	
☑	Unknown Peak 7.0792	0.51	7.079	212406	
☑	Unknown Peak 7.2153	1.20	7.215	496977	
☑	Unknown Peak 7.2870	0.20	7.287	82672	
☑	Toluene-d8	6.44	7.380	2669096	
☐	4-Methyl-2-pentanone	0.02	7.380	8992	
☑	Toluene	4.03	7.437	1669426	
☑	Unknown Peak 7.5162	0.05	7.516	20501	
☑	Unknown Peak 7.6451	0.05	7.645	21336	
☑	Unknown Peak 7.6953	0.17	7.695	72091	
☑	Unknown Peak 7.8314	0.03	7.831	12035	

Air Toxics Ltd.

List of Selected Compounds

Data File: 3072708.d
Sample #: 3234-26A
Client ID: Calib
Spike Level: 500
Dilution Factor: 1

	Compounds	% Area	RT	Peak Area	10
✓	Unknown Peak 7.9245	0.11	7.925	43707	
✓	Unknown Peak 8.0821	0.09	8.082	36169	
✓	Unknown Peak 8.2182	0.05	8.218	21528	
✓	Unknown Peak 8.2826	0.14	8.283	57121	
✓	Unknown Peak 8.3829	0.07	8.383	30029	
✓	Unknown Peak 8.4617	0.06	8.462	26096	
✓	Unknown Peak 8.5477	0.07	8.548	30513	
✓	Chlorobenzene-d5	6.78	8.612	2809510	
✓	Ethyl Benzene	0.87	8.684	361921	
✓	m,p-Xylene	2.56	8.784	1061671	
✓	Unknown Peak 8.9345	0.03	8.935	12971	
✓	Unknown Peak 8.9989	0.03	8.999	11746	
✓	o-Xylene	0.93	9.121	385902	
✓	Unknown Peak 9.3213	0.03	9.321	13426	
✓	Cumene	0.24	9.407	99352	
✓	Unknown Peak 9.4502	0.34	9.450	139960	
✓	Unknown Peak 9.5218	0.16	9.522	65133	
✓	4-Bromofluorobenzene	8.34	9.601	3456495	
✓	Propylbenzene	0.20	9.751	81994	
✓	4-Ethyltoluene	1.12	9.830	465238	
✓	1,3,5-Trimethylbenzene	0.35	9.902	143482	
✓	Unknown Peak 10.080	0.54	10.081	222701	
✓	1,2,4-Trimethylbenzene	1.09	10.224	451628	
✓	Unknown Peak 10.302	0.50	10.303	207092	
✓	Unknown Peak 10.424	0.16	10.424	65882	
✓	Unknown Peak 10.510	0.57	10.510	237396	
✓	Unknown Peak 10.596	0.26	10.596	108146	
✓	Unknown Peak 10.689	0.25	10.689	103462	
✓	Unknown Peak 10.746	0.15	10.747	63465	
✓	Unknown Peak 10.782	0.44	10.783	182433	
✓	Unknown Peak 10.897	0.08	10.897	31112	
✓	Unknown Peak 10.968	0.05	10.969	21242	
✓	Unknown Peak 11.040	0.21	11.040	86898	
✓	Unknown Peak 11.119	0.11	11.119	46207	
✓	Unknown Peak 11.248	0.10	11.248	41145	
✓	Unknown Peak 11.391	0.04	11.391	17032	
✓	Unknown Peak 11.470	0.15	11.470	60633	
✓	Unknown Peak 11.513	0.07	11.513	26942	
✓	Unknown Peak 11.763	0.06	11.764	23220	
✓	Unknown Peak 11.828	0.03	11.828	13538	
✓	Unknown Peak 11.914	0.10	11.914	41880	
✓	Unknown Peak 12.186	0.03	12.187	10547	
✓	Unknown Peak 12.229	0.03	12.230	11884	
✓	Unknown Peak 12.315	0.06	12.315	25880	
✓	Unknown Peak 12.559	0.05	12.559	19751	

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Curve Response Factors
3072607.d

Compound	Ave. RF	% RSD
TPH	56027	0.00014

VD 7/26/21

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File Response Factors

Data File: 3072607.d
Sample #: 3234-26A
Client ID: Calib
Spike Level: 500
Dilution Factor: 1

Compound	RF	RT
TPH	56027.0768934	0

Air Toxics Ltd.

List of Selected Compounds

Data File: 3072607.d
Sample #: 3234-26A
Client ID: Calib
Spike Level: 500
Dilution Factor: 1

	Compounds	% Area	RT	Peak Area	10
✓	Unknown Peak 1.1847	0.08	1.185	34988	
✓	Unknown Peak 1.3247	0.35	1.325	149865	
✓	Unknown Peak 1.5765	0.09	1.577	38289	
✓	Butane	0.93	1.702	395401	
✓	Unknown Peak 1.8843	0.10	1.884	43234	
✓	Isopentane	3.34	2.220	1416275	
✓	Unknown Peak 2.5	1.15	2.500	489109	
✓	Unknown Peak 2.6679	0.20	2.668	85142	
✓	Ethanol	1.37	2.766	581666	
✓	Unknown Peak 2.8777	0.38	2.878	163155	
✓	Unknown Peak 3.0177	0.14	3.018	58688	
✓	Unknown Peak 3.5494	1.48	3.549	629937	
✓	Unknown Peak 3.5913	1.43	3.591	606064	
✓	Unknown Peak 3.8712	0.66	3.871	279865	
✓	Unknown Peak 4.0950	0.09	4.095	38494	
✓	Hexane	0.73	4.179	310557	
✓	Unknown Peak 4.3049	0.09	4.305	37506	
✓	Unknown Peak 4.3609	0.13	4.361	55408	
✓	Unknown Peak 4.4029	0.13	4.403	53440	
✓	Unknown Peak 4.4868	0.09	4.487	36481	
✓	Unknown Peak 4.5568	0.14	4.557	58624	
✓	Unknown Peak 4.7107	1.26	4.711	536801	
✓	Unknown Peak 4.7946	0.57	4.795	243813	
✓	Unknown Peak 4.8646	0.13	4.865	56414	
✓	Unknown Peak 5.2144	0.07	5.214	28049	
✓	Bromochloromethane	4.00	5.284	1696745	
✓	Tetrahydrofuran	0.68	5.382	288490	
✓	Cyclohexane	1.47	5.438	624390	
✓	Unknown Peak 5.5502	0.67	5.550	284224	
	2,2,4-Trimethylpentane	5.82	5.774	2471759	
	Benzene	0.10	5.788	40437	
✓	1,2-Dichloroethane-d4	15.84	5.816	6722996	
✓	Heptane	0.58	5.942	246253	
✓	Unknown Peak 6.0819	0.19	6.082	80174	
✓	1,4-Difluorobenzene	5.46	6.166	2317788	
✓	Unknown Peak 6.2778	0.05	6.278	21768	
✓	Unknown Peak 6.3197	0.07	6.320	31280	
✓	Unknown Peak 6.4317	1.44	6.432	610637	
✓	Methylcyclohexane	1.47	6.460	624189	
✓	Unknown Peak 6.5436	0.65	6.544	274855	
✓	Unknown Peak 6.6207	0.11	6.621	45709	
✓	Unknown Peak 6.6637	0.04	6.664	18458	
✓	Unknown Peak 6.7998	3.50	6.800	1486488	
✓	Unknown Peak 6.9073	5.27	6.907	2236483	
✓	Unknown Peak 7.0863	0.45	7.086	191313	
✓	Unknown Peak 7.2153	1.22	7.215	517854	
✓	Unknown Peak 7.2797	0.17	7.280	73876	
✓	Toluene-d8	6.07	7.380	2576242	
	4-Methyl-2-pentanone	0.02	7.380	10588	
✓	Toluene	3.63	7.437	1540954	
✓	Unknown Peak 7.6021	0.06	7.602	27452	
✓	Unknown Peak 7.6450	0.10	7.645	41166	

Air Toxics Ltd.

List of Selected Compounds

Data File: 3072607.d
Sample #: 3234-26A
Client ID: Calib
Spike Level: 500
Dilution Factor: 1

	Compounds	% Area	RT	Peak Area	10
✓	Unknown Peak 7.6952	0.24	7.695	103169	
✓	Unknown Peak 7.8241	0.03	7.824	12583	
✓	Unknown Peak 7.9387	0.10	7.939	42951	
✓	Unknown Peak 8.0175	0.04	8.018	18134	
✓	Unknown Peak 8.0820	0.11	8.082	45914	
✓	Unknown Peak 8.2252	0.05	8.225	23336	
✓	Unknown Peak 8.2826	0.15	8.283	65298	
✓	Unknown Peak 8.3828	0.09	8.383	36878	
✓	Unknown Peak 8.4545	0.09	8.455	37652	
✓	Unknown Peak 8.5547	0.14	8.555	61128	
✓	Chlorobenzene-d5	6.33	8.612	2688619	
✓	Ethyl Benzene	0.86	8.684	364028	
✓	m,p-Xylene	2.47	8.784	1049644	
✓	Unknown Peak 8.9344	0.04	8.934	16723	
✓	o-Xylene	0.89	9.121	379820	
✓	Unknown Peak 9.3140	0.02	9.314	10525	
✓	Cumene	0.25	9.407	105005	
✓	Unknown Peak 9.4573	0.32	9.457	135203	
✓	Unknown Peak 9.5218	0.08	9.522	32345	
✓	4-Bromofluorobenzene	7.59	9.601	3223996	
✓	Propylbenzene	0.17	9.758	73379	
✓	4-Ethyltoluene	1.03	9.823	437938	
✓	1,3,5-Trimethylbenzene	0.30	9.901	128295	
✓	Unknown Peak 9.9372	0.04	9.937	17392	
✓	Unknown Peak 10.080	0.49	10.081	208145	
✓	1,2,4-Trimethylbenzene	1.08	10.224	457601	
✓	Unknown Peak 10.302	0.31	10.303	131973	
✓	Unknown Peak 10.424	0.06	10.424	23764	
✓	Unknown Peak 10.467	0.03	10.467	14277	
✓	Unknown Peak 10.510	0.42	10.510	179715	
✓	Unknown Peak 10.596	0.21	10.596	88258	
✓	Unknown Peak 10.689	0.18	10.689	75488	
✓	Unknown Peak 10.746	0.13	10.747	54004	
✓	Unknown Peak 10.789	0.35	10.790	149559	
✓	Unknown Peak 10.897	0.06	10.897	26597	
✓	Unknown Peak 10.968	0.03	10.969	12550	
✓	Unknown Peak 11.033	0.07	11.033	29760	
✓	Unknown Peak 11.047	0.11	11.048	45536	
✓	Unknown Peak 11.126	0.11	11.126	45711	
✓	Unknown Peak 11.248	0.06	11.248	26824	
✓	Unknown Peak 11.391	0.04	11.391	18995	
✓	Unknown Peak 11.470	0.13	11.470	53413	
✓	Unknown Peak 11.513	0.07	11.513	27816	
✓	Unknown Peak 11.763	0.06	11.764	24046	
✓	Unknown Peak 11.914	0.10	11.914	44483	
✓	Unknown Peak 12.186	0.02	12.186	10253	
✓	Unknown Peak 12.322	0.07	12.323	27657	
✓	Unknown Peak 12.387	0.02	12.387	10210	
✓	Unknown Peak 12.558	0.06	12.559	25080	

Dilution Factor = $\frac{\text{Final Pressure}}{\text{Initial Vacuum}} = \frac{\text{14.7psi + Final Pressure (psi)}}{\text{14.7psi –[Init. Pressure (“Hg))*(14.7psi/30”Hg)]}}$

Dilution Factor = $\frac{\text{Final Pressure}}{\text{Initial Pressure}} = \frac{\text{14.7psi + Final Pressure (psi)}}{\text{14.7psi +Initial Pressure (psi)}}$

Initial Vacuum (" of Hg)	2 psi	5 psi	10 psi	15 psi
0.0	**1.14**	1.34	**1.68**	2.02
0.2	**1.14**	1.35	**1.69**	2.03
0.4	**1.15**	1.36	**1.70**	2.05
0.5	**1.16**	1.36	**1.71**	2.05
0.6	**1.16**	1.37	**1.71**	2.06
0.8	**1.17**	1.38	**1.73**	2.08
1.0	**1.18**	1.39	**1.74**	2.09
1.2	**1.18**	1.40	**1.75**	2.10
1.4	**1.19**	1.40	**1.76**	2.12
1.5	**1.20**	1.41	**1.77**	2.13
1.6	**1.20**	1.42	**1.77**	2.13
1.8	**1.21**	1.42	**1.79**	2.15
2.0	**1.22**	1.44	**1.80**	2.16
2.2	**1.23**	1.45	**1.81**	2.18
2.4	**1.23**	1.46	**1.83**	2.20
2.5	**1.24**	1.46	**1.83**	2.20
2.6	**1.24**	1.47	**1.84**	2.21
2.8	**1.25**	1.48	**1.85**	2.23
3.0	**1.26**	1.49	**1.87**	2.24
3.2	**1.27**	1.50	**1.88**	2.26
3.4	**1.28**	1.51	**1.90**	2.28
3.5	**1.29**	1.52	**1.90**	2.29
3.6	**1.29**	1.52	**1.91**	2.30
3.8	**1.30**	1.53	**1.92**	2.31
4.0	**1.31**	1.55	**1.94**	2.33
4.2	**1.32**	1.56	**1.95**	2.35
4.4	**1.33**	1.57	**1.97**	2.37
4.5	**1.34**	1.58	**1.98**	2.38
4.6	**1.34**	1.58	**1.98**	2.39
4.8	**1.35**	1.60	**2.00**	2.40
5.0	**1.36**	1.61	**2.02**	2.42
5.2	**1.37**	1.62	**2.03**	2.44
5.4	**1.39**	1.63	**2.05**	2.46
5.5	**1.39**	1.64	**2.06**	2.47
5.6	**1.40**	1.65	**2.07**	2.48
5.8	**1.41**	1.66	**2.08**	2.50
6.0	**1.42**	1.68	**2.10**	2.52
6.2	**1.43**	1.69	**2.12**	2.55
6.4	**1.44**	1.70	**2.14**	2.57
6.5	**1.45**	1.71	**2.15**	2.58
6.6	**1.46**	1.72	**2.15**	2.59
6.8	**1.47**	1.73	**2.17**	2.61
7.0	**1.48**	1.75	**2.19**	2.64
7.2	**1.49**	1.76	**2.21**	2.66
7.4	**1.51**	1.78	**2.23**	2.68
7.5	**1.51**	1.79	**2.24**	2.69
7.6	**1.52**	1.79	**2.25**	2.70

Initial Vacuum (" of Hg)	2 psi	5 psi	10 psi	15 psi
7.7	**1.53**	1.80	**2.26**	2.72
7.8	**1.54**	1.81	**2.27**	2.73
8.0	**1.55**	1.83	**2.29**	2.76
8.2	**1.56**	1.84	**2.31**	2.78
8.4	**1.58**	1.86	**2.33**	2.81
8.5	**1.59**	1.87	**2.34**	2.82
8.6	**1.59**	1.88	**2.36**	2.83
8.8	**1.61**	1.90	**2.38**	2.86
9.0	**1.62**	1.91	**2.40**	2.89
9.2	**1.64**	1.93	**2.42**	2.91
9.4	**1.65**	1.95	**2.45**	2.94
9.5	**1.66**	1.96	**2.46**	2.96
9.6	**1.67**	1.97	**2.47**	2.97
9.8	**1.69**	1.99	**2.50**	3.00
10.0	**1.70**	2.01	**2.52**	3.03
10.2	**1.72**	2.03	**2.55**	3.06
10.4	**1.74**	2.05	**2.57**	3.09
10.5	**1.75**	2.06	**2.59**	3.11
10.6	**1.76**	2.07	**2.60**	3.12
10.8	**1.78**	2.09	**2.63**	3.16
11.0	**1.79**	2.12	**2.65**	3.19
11.2	**1.81**	2.14	**2.68**	3.22
11.4	**1.83**	2.16	**2.71**	3.26
11.5	**1.84**	2.17	**2.72**	3.28
11.6	**1.85**	2.18	**2.74**	3.29
11.8	**1.87**	2.21	**2.77**	3.33
12.0	**1.89**	2.23	**2.80**	3.37
12.2	**1.91**	2.26	**2.83**	3.40
12.4	**1.94**	2.28	**2.86**	3.44
12.5	**1.95**	2.30	**2.88**	3.46
12.6	**1.96**	2.31	**2.90**	3.48
12.8	**1.98**	2.34	**2.93**	3.52
13.0	**2.00**	2.36	**2.97**	3.56
13.2	**2.03**	2.39	**3.00**	3.61
13.4	**2.05**	2.42	**3.04**	3.65
13.5	**2.07**	2.44	**3.06**	3.67
13.6	**2.08**	2.45	**3.07**	3.70
13.8	**2.10**	2.48	**3.11**	3.74
14.0	**2.13**	2.51	**3.15**	3.79
14.2	**2.16**	2.54	**3.19**	3.84
14.4	**2.18**	2.58	**3.23**	3.88
14.5	**2.20**	2.59	**3.25**	3.91
14.6	**2.21**	2.61	**3.27**	3.94
14.8	**2.24**	2.64	**3.32**	3.99
15.0	**2.27**	2.68	**3.36**	4.04
15.2	**2.30**	2.72	**3.41**	4.10
15.4	**2.33**	2.75	**3.45**	4.15

Initial Vacuum (" of Hg)	2 psi	5 psi	10 psi	15 psi
15.5	**2.35**	2.77	**3.48**	4.18
15.6	**2.37**	2.79	**3.50**	4.21
15.8	**2.40**	2.83	**3.55**	4.27
16.0	**2.43**	2.87	**3.60**	4.33
16.2	**2.47**	2.91	**3.65**	4.39
16.4	**2.51**	2.96	**3.71**	4.46
16.5	**2.52**	2.98	**3.73**	4.49
16.6	**2.54**	3.00	**3.76**	4.52
16.8	**2.58**	3.05	**3.82**	4.59
17.0	**2.62**	3.09	**3.88**	4.66
17.2	**2.66**	3.14	**3.94**	4.74
17.4	**2.70**	3.19	**4.00**	4.81
17.5	**2.73**	3.22	**4.03**	4.85
17.6	**2.75**	3.24	**4.07**	4.89
17.8	**2.79**	3.30	**4.13**	4.97
18.0	**2.84**	3.35	**4.20**	5.05
18.2	**2.89**	3.41	**4.27**	5.14
18.4	**2.94**	3.47	**4.35**	5.22
18.5	**2.96**	3.50	**4.38**	5.27
18.6	**2.99**	3.53	**4.42**	5.32
18.8	**3.04**	3.59	**4.50**	5.41
19.0	**3.10**	3.65	**4.58**	5.51
19.2	**3.16**	3.72	**4.67**	5.61
19.4	**3.22**	3.79	**4.76**	5.72
19.5	**3.25**	3.83	**4.80**	5.77
19.6	**3.28**	3.87	**4.85**	5.83
19.8	**3.34**	3.94	**4.94**	5.94
20.0	**3.41**	4.02	**5.04**	6.06
20.2	**3.48**	4.10	**5.14**	6.18
20.4	**3.55**	4.19	**5.25**	6.31
20.5	**3.59**	4.23	**5.31**	6.38
20.6	**3.63**	4.28	**5.36**	6.45
20.8	**3.70**	4.37	**5.48**	6.59
21.0	**3.79**	4.47	**5.60**	6.73
21.2	**3.87**	4.57	**5.73**	6.89
21.4	**3.96**	4.67	**5.86**	7.05
21.5	**4.01**	4.73	**5.93**	7.13
21.6	**4.06**	4.79	**6.00**	7.22
21.8	**4.16**	4.90	**6.15**	7.39
22.0	**4.26**	5.03	**6.30**	7.58
22.4	**4.48**	5.29	**6.63**	7.98

Initial Vacuum (" of Hg)	2 psi	5 psi	10 psi	15 psi
22.5	**4.54**	5.36	**6.72**	8.08
22.6	**4.61**	5.43	**6.81**	8.19
22.8	**4.73**	5.58	**7.00**	8.42
23.0	**4.87**	5.74	**7.20**	8.66
23.2	**5.01**	5.91	**7.41**	8.91
23.4	**5.16**	6.09	**7.64**	9.18
23.5	**5.24**	6.19	**7.76**	9.32
23.6	**5.33**	6.28	**7.88**	9.47
23.8	**5.50**	6.48	**8.13**	9.78
24.0	**5.68**	6.70	**8.40**	10.10
24.2	**5.88**	6.93	**8.69**	10.45
24.4	**6.09**	7.18	**9.00**	10.82
24.5	**6.20**	7.31	**9.17**	11.02
24.6	**6.31**	7.45	**9.33**	11.22
24.8	**6.55**	7.73	**9.69**	11.66
25.0	**6.82**	8.04	**10.08**	12.12
25.2	**7.10**	8.38	**10.50**	12.63
25.4	**7.41**	8.74	**10.96**	13.18
25.5	**7.57**	8.93	**11.20**	13.47
25.6	**7.75**	9.14	**11.46**	13.78
25.8	**8.11**	9.57	**12.00**	14.43
26.0	**8.52**	10.05	**12.60**	15.15
26.2	**8.97**	10.58	**13.27**	15.95
26.4	**9.47**	11.17	**14.00**	16.84
26.5	**9.74**	11.49	**14.40**	17.32
26.6	**10.02**	11.82	**14.83**	17.83
26.8	**10.65**	12.56	**15.75**	18.94
27.0	**11.36**	13.40	**16.80**	20.20
27.2	**12.17**	14.36	**18.00**	21.65
27.4	**13.11**	15.46	**19.39**	23.31
27.5	**13.63**	16.08	**20.16**	24.24
27.6	**14.20**	16.75	**21.00**	25.26
27.8	**15.49**	18.27	**22.91**	27.55
28.0	**17.04**	20.10	**25.20**	30.31
28.2	**18.93**	22.34	**28.00**	33.67
28.4	**21.30**	25.13	**31.51**	37.88
28.5	**22.72**	26.80	**33.61**	40.41
28.6	**24.34**	28.72	**36.01**	43.29
28.8	**28.40**	33.50	**42.01**	50.51
29.0	**34.08**	40.20	**50.41**	60.61

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Method:TO-15 (Sp)-AECOM (SMUD 59th alphanumeric)

CAS Number	Compound	Rpt. Limit(ppbv)
630-20-6	1,1,1,2-Tetrachloroethane	2.0
71-55-6	1,1,1-Trichloroethane	0.5
79-34-5	1,1,2,2-Tetrachloroethane	0.5
79-00-5	1,1,2-Trichloroethane	0.5
75-34-3	1,1-Dichloroethane	0.5
75-35-4	1,1-Dichloroethene	0.5
75-37-6	1,1-Difluoroethane	2.0
96-18-4	1,2,3-Trichloropropane	2.0
120-82-1	1,2,4-Trichlorobenzene	2.0
95-63-6	1,2,4-Trimethylbenzene	0.5
96-12-8	1,2-Dibromo-3-chloropropane	2.0
106-93-4	1,2-Dibromoethane (EDB)	0.5
95-50-1	1,2-Dichlorobenzene	0.5
107-06-2	1,2-Dichloroethane	0.5
78-87-5	1,2-Dichloropropane	0.5
108-67-8	1,3,5-Trimethylbenzene	0.5
106-99-0	1,3-Butadiene	0.5
541-73-1	1,3-Dichlorobenzene	0.5
106-46-7	1,4-Dichlorobenzene	0.5
123-91-1	1,4-Dioxane	2.0
540-84-1	2,2,4-Trimethylpentane	0.5
78-93-3	2-Butanone (Methyl Ethyl Ketone)	2.0
591-78-6	2-Hexanone	2.0
67-63-0	2-Propanol	2.0
107-05-1	3-Chloropropene	2.0
622-96-8	4-Ethyltoluene	0.5
108-10-1	4-Methyl-2-pentanone	0.5
67-64-1	Acetone	5.0
107-02-8	Acrolein	2.0
107-13-1	Acrylonitrile	2.0
100-44-7	alpha-Chlorotoluene	0.5
71-43-2	Benzene	0.5

75-27-4	Bromodichloromethane	0.5
	Method:TO-15 (Sp)-AECOM (SMUD 59th alphanumeric)	

CAS Number	Compound	Rpt. Limit(ppbv)
75-25-2	Bromoform	0.5
74-83-9	Bromomethane	5.0
75-15-0	Carbon Disulfide	2.0
56-23-5	Carbon Tetrachloride	0.5
108-90-7	Chlorobenzene	0.5
75-00-3	Chloroethane	2.0
67-66-3	Chloroform	0.5
74-87-3	Chloromethane	5.0
156-59-2	cis-1,2-Dichloroethene	0.5
10061-01-5	cis-1,3-Dichloropropene	0.5
98-82-8	Cumene	0.5
110-82-7	Cyclohexane	0.5
124-48-1	Dibromochloromethane	0.5
74-95-3	Dibromomethane	2.0
64-17-5	Ethanol	5.0
141-78-6	Ethyl Acetate	2.0
100-41-4	Ethyl Benzene	0.5
637-92-3	Ethyl-tert-butyl ether	2.0
75-69-4	Freon 11	0.5
76-13-1	Freon 113	0.5
76-14-2	Freon 114	0.5
75-71-8	Freon 12	0.5
811-97-2	Freon 134a	2.0
142-82-5	Heptane	0.5
87-68-3	Hexachlorobutadiene	2.0
67-72-1	Hexachloroethane	2.0
110-54-3	Hexane	0.5
74-88-4	Iodomethane	5.0
108-20-3	Isopropyl ether	2.0
108-38-3	m,p-Xylene	0.5
1634-04-4	Methyl tert-butyl ether	2.0
75-09-2	Methylene Chloride	5.0
91-20-3	Naphthalene	1.0
95-47-6	o-Xylene	0.5
103-65-1	Propylbenzene	0.5

115-07-1	Propylene	2.0
100-42-5	Styrene	0.5
994-05-8	tert-Amyl methyl ether	2.0
75-65-0	tert-Butyl alcohol	2.0
127-18-4	Tetrachloroethene	0.5
109-99-9	Tetrahydrofuran	0.5
108-88-3	Toluene	0.5
9999-9999-038	TPH ref. to Gasoline (MW=100)	50.0
156-60-5	trans-1,2-Dichloroethene	0.5
10061-02-6	trans-1,3-Dichloropropene	0.5
79-01-6	Trichloroethene	0.5
108-05-4	Vinyl Acetate	2.0
593-60-2	Vinyl Bromide	2.0
75-01-4	Vinyl Chloride	0.5

	Surrogate	Method Limits
17060-07-0	1,2-Dichloroethane-d4	70-130
460-00-4	4-Bromofluorobenzene	70-130
2037-26-5	Toluene-d8	70-130

Eurofins Air Toxics	Data Review Checklist			Release Date: 10/22/19
Workorder # 2107284	Form F1.27	Revision #17	Revision Date: 10/22/19	Page 1 of 2

S1	S2	S3	S4	D	**Section 1 – Spec Out**				
					Initials/Instrument/Date	**S1:** MSD3 7/26/21 LD	**S2:** MSD3 7/27/21 LD	**S3:**	**S4:**
✓	✓			■	Project Identification (PID), Project Requirements Table (PRT), Daily QC and ICAL met Criteria				
✓	✓			■	Lumen QC and ICAL evaluation (ref. SOP/Method) report initialed and in folder				
N/A	N/A			■	Manual Integrations included and approved				
✓	✓			✓	Chain of Custody verified for special comments/notes and analyses requested (add comments below)				
✓	✓			■	Non-standard Target sublist verified (MDL, LOD, RL, control limits, etc.)				
✓	–			■	Verified standard expiration dates				

Profile, analyses, reporting, special notes and unusual circumstances: S1: QC - 1 out ICAL. 1 out LCS, UB-089. S2: QC - 1 out ICAL, 4 out daily, UB-089.

A1	A2	A3	A4	D	**Section 2 – Sample Analysis**				
					Initials/Date	**A1:** JF 7/28/21	**A2:** LD 7/27/21	**A3:** VK 7/27/21	**A4:**
✓	✓	✓		✓	IS/Surr Recoveries, Dilution Factors, Load Volumes, leg(s) of instrument, Initial/Final Pressures, Canister #s Verified and dilution ranges are met per SOP (ex. Over-ranged/overdiluted)				
✓	N/A	N/A		A	**a)** Tedlar Bag IDs verified against COC **b)** Tedlar Bag ID confirmed with loading sequence/leg(s) of instrument				
✓	N/A	✓		A	Manual Integrations/Bag or Can Dilution Forms/Re-pressurization Forms/Bag-Can Transfer Forms present (circle all that apply)				
✓	✓	✓		■	12/24 Hr clock time & Hold Time met for all samples				
✓	✓	✓		✓	Re-analysis of sample(s) has been evaluated for comparability and/or sample(s) has/have been checked for trends (Inf/Eff), field dups/trip blanks, samples following bad loads on auto samplers have been verified (system blks, confirmation runs)				
✓	✓	!		✓	All runs have been evaluated for potential carry-over (TPHg/non-Target/over-range compounds/ etc.)				

Analytical and special notes: A1: 01A - 10A full load 0.7A collected 10A Meets criteria
A2: 11A-20A-Full loads, 10A confirmation - 3072629.
13A/14A duped, 17A "E" LIDFA OK per PM. A3: 21A, 22A, 24A-26A, 23A full load. 23A contained LL.

D1	D2	D3	D4	T	3T	**Section 3 – Target Data Reduction**	**Technical Review Needed? Circle one: Yes/No**		**T:** Confirmation – 3072721	
						Initials/Instrument/ Date	**D1:** EA 7/29/21	**D2:**	**D3:**	**D4:**
N/A					■	CAR # *(if applicable)*				
✓					■	Spectra Verified *(documentation of spectral defense included if applicable)*				
N/A					■	TICs resemble reference spectra/ TICs between sample dups. are consistent *(if applicable)*				
✓						Lab Narrative is correct				
✓					■	TPH/NMOC calculations complete and included in folder				

Special notes: FD confirmed

A	3T	**Section 4- Atlas Data Entry**	**Lumen verified and included in folder**	**Circle one: Yes/No**
		Initials/Date: EA 7/29/21	**3rd Tier:** *(needed only for DOD or per client request)*	
N/A		Sample Discrepancy Report (SDR) complete and approved *(if applicable)*		
✓		Manually entered results are checked		
✓		At least one result per sample is verified against Target quant sheets		
✓		Appropriate data qualifier flags are applied		
	✓	Final Invoice is correct/ Final PDF report, COC and EDD reviewed and correct		

Special Notes:

Note (1) *Please check all the appropriate boxes. Indicate "NA" for any statement that doesn't apply*
Note (2) 3rd Tier Report Reviewer and Write Up Reviewer must be separate individuals for DoD & Client Specific Projects

Workorder # :				**Reason for Reissue:**
W	**T**	**3T**	**Q**	
				Reissue Request form Present
				Client or QA or Lab contact present with reason for reissue
				Review all affected data
				Report header has correct R1, R2 etc
				The Lab Narrative clearly explains the reissue (Date, Reason and whether client requested)
				Date for Reissue in Report Header matches date in Lab Narrative
				Check Project Profile for correct reporting instructions (multiple clients, # hardcopies, etc)
				Corrective Action issued - #
				The reissued workorder has been approved by QA Manager or a Technical Director
Additional Comments:				

Write Up (Initials/Date)	**Tech Review** (Initials/Date)	***3rd Tier Review** ** 3rd Tier Report Review is for DoD & Client Specific projects only* (Initials/Date)	**QA Review** (Initials/Date)

Workorder # :				**Reason for Reissue:**
W	**T**	**3T**	**Q**	
				Reissue Request form Present
				Client or QA or Lab contact present with reason for reissue
				Review all affected data
				Report header has correct R1, R2 etc
				The Lab Narrative clearly explains the reissue (Date, Reason and whether client requested)
				Date for Reissue in Report Header matches date in Lab Narrative
				Check Project Profile for correct reporting instructions (multiple clients, # hardcopies, etc)
				Corrective Action issued - #
				The reissued workorder has been approved by QA Manager or a Technical Director
Additional Comments:				

Write Up (Initials/Date)	**Tech Review** (Initials/Date)	***3rd Tier Review** ** 3rd Tier Report Review is for DoD & Client Specific projects only* (Initials/Date)	**QA Review** (Initials/Date)

Note (1) *Please check all the appropriate boxes. Indicate "NA" for any statement that doesn't apply*
Note (2) 3rd Tier Report Reviewer and Write Up Reviewer must be separate individuals for DoD & Client Specific Projects

Not Applicable

Electronic Comprehensive Validation Package (eCVP)

Vera Belitsky Vera Belitsky 08-25-2021

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WORK ORDER #: 2108390

Work Order Summary

CLIENT:	Mr. Robert Kohlhardt AECOM 2020 L Street, Suite 400 Sacramento, CA 95811	**BILL TO:**	Mr. Jerry Montgomery SWPPQueen 7202 Gloria Drive #25 Sacramento, CA 95831
PHONE:	916-679-2000	**P.O. #**	
FAX:	916-679-2900	**PROJECT #**	60632793.6 SMUD 59th ST.
DATE RECEIVED:	08/17/2021	**CONTACT:**	Monica Tran
DATE COMPLETED:	08/24/2021		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	SG-VW35A-03	TO-15	6.0 "Hg	10 psi
02A	SG-VW44A-03	TO-15	6.5 "Hg	10 psi
03A	SG-VW17A-03	TO-15	5.0 "Hg	10 psi
04A	SG-VW58A-02	TO-15	7.0 "Hg	10 psi
05A	SG-VW58B-02	TO-15	5.5 "Hg	10 psi
06A	SG-VW60B-02	TO-15	6.0 "Hg	10 psi
07A	SG-VW60A-02	TO-15	5.0 "Hg	10 psi
08A	SG-VW61A-02	TO-15	7.0 "Hg	10 psi
09A	SG-VW63A-02	TO-15	6.0 "Hg	10 psi
10A	SG-VW63B-02	TO-15	6.0 "Hg	10 psi
11A	SG-VW63B-03	TO-15	6.0 "Hg	10 psi
12A	SG-VW55A-03	TO-15	5.0 "Hg	10 psi
13A	SG-VW20A-03	TO-15	4.5 "Hg	10 psi
14A	SG-VW21A-04	TO-15	4.0 "Hg	10 psi
15A	SG-VW24A-05	TO-15	5.0 "Hg	10 psi
16A	SG-VW29A-03	TO-15	6.5 "Hg	10 psi
17A	SG-VW64A-02	TO-15	5.5 "Hg	10 psi
18A	SG-VW59A-02	TO-15	5.0 "Hg	10 psi
19A	SG-VW59B-02	TO-15	6.0 "Hg	10 psi
20A	SSV-FSS01-02	TO-15	5.5 "Hg	10 psi
21A	SSV-FSS01-03	TO-15	5.5 "Hg	10 psi
22A	SSV-FSS02-02	TO-15	4.5 "Hg	10.6 psi
23A	SSV-GSS01-02	TO-15	5.5 "Hg	10 psi

Continued on next page

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WORK ORDER #: 2108390

Work Order Summary

CLIENT:	Mr. Robert Kohlhardt AECOM 2020 L Street, Suite 400 Sacramento, CA 95811	**BILL TO:**	Mr. Jerry Montgomery SWPPQueen 7202 Gloria Drive #25 Sacramento, CA 95831
PHONE:	916-679-2000	**P.O. #**	
FAX:	916-679-2900	**PROJECT #**	60632793.6 SMUD 59th ST.
DATE RECEIVED:	08/17/2021	**CONTACT:**	Monica Tran
DATE COMPLETED:	08/24/2021		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
24A	SSV-GSS02-02	TO-15	6.5 "Hg	10 psi
25A	SSV-HMBSS01-02	TO-15	5.5 "Hg	10 psi
26A	SSV-JSS01-02	TO-15	6.0 "Hg	10 psi
27A	Lab Blank	TO-15	NA	NA
27B	Lab Blank	TO-15	NA	NA
28A	CCV	TO-15	NA	NA
28B	CCV	TO-15	NA	NA
29A	LCS	TO-15	NA	NA
29AA	LCSD	TO-15	NA	NA
29B	LCS	TO-15	NA	NA
29BB	LCSD	TO-15	NA	NA

CERTIFIED BY: Heidi Hayes DATE: 08/24/21

Technical Director

Certification numbers: AZ Licensure AZ0775, FL NELAP – E87680, LA NELAP – 02089, NH NELAP - 209220, NJ NELAP - CA016, NY NELAP - 11291, TX NELAP - T104704434-20-16, UT NELAP – CA009332020-12, VA NELAP - 10615, WA NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005-014, Effective date: 10/18/2020, Expiration date: 10/17/2021.
Eurofins Air Toxics, LLC certifies that the test results contained in this report meet all requirements of the NELAC standards

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 351-8279

LABORATORY NARRATIVE
EPA Method TO-15
AECOM
Workorder# 2108390

Twenty-six 1 Liter Summa Canister samples were received on August 17, 2021. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

A single point calibration for TPH referenced to Gasoline was performed for each daily analytical batch. Recovery is reported as 100% in the associated results for each CCV.

The reported CCV for each daily batch may be derived from more than one analytical file due to the client's request for non-standard compounds.

Non-standard compounds may have different acceptance criteria than the standard TO-14A/TO-15 compound list as per contract or verbal agreement.

The US EPA released a document on December 17, 2010 outlining possible data quality concerns for Acrolein measured by EPA Method TO-15. As a result, Acrolein is reported as estimated. Please refer to EPA document tilted "Data Quality Evaluation Guidelines for Ambient Air Acrolein Measurements December 17, 2010" located on-line at www.epa.gov/ttn/amtic/airtox.html for complete details.

Definition of Data Qualifying Flags

Ten qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

M - Reported value may be biased due to apparent matrix interferences.

CN - See Case Narrative.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

Table 1								
Client Sample ID	Lab Sample ID	Date Collected	Date Received	Date Extracted	Sample Holding Time (Days)	Date Analyzed	Sample Extract Holding Time (Days)	Sample Condition
SG-VW35A-03	2108390-01A	08/16/2021	08/17/2021	NA	4	08/20/2021	NA	GOOD
SG-VW44A-03	2108390-02A	08/16/2021	08/17/2021	NA	4	08/20/2021	NA	GOOD
SG-VW17A-03	2108390-03A	08/16/2021	08/17/2021	NA	4	08/20/2021	NA	GOOD
SG-VW58A-02	2108390-04A	08/16/2021	08/17/2021	NA	5	08/21/2021	NA	GOOD
SG-VW58B-02	2108390-05A	08/16/2021	08/17/2021	NA	4	08/20/2021	NA	GOOD
SG-VW60B-02	2108390-06A	08/16/2021	08/17/2021	NA	4	08/20/2021	NA	GOOD
SG-VW60A-02	2108390-07A	08/16/2021	08/17/2021	NA	4	08/20/2021	NA	GOOD
SG-VW61A-02	2108390-08A	08/16/2021	08/17/2021	NA	5	08/21/2021	NA	GOOD
SG-VW63A-02	2108390-09A	08/16/2021	08/17/2021	NA	4	08/20/2021	NA	GOOD
SG-VW63B-02	2108390-10A	08/16/2021	08/17/2021	NA	4	08/20/2021	NA	GOOD
SG-VW63B-03	2108390-11A	08/16/2021	08/17/2021	NA	4	08/20/2021	NA	GOOD
SG-VW55A-03	2108390-12A	08/17/2021	08/17/2021	NA	4	08/21/2021	NA	GOOD
SG-VW20A-03	2108390-13A	08/17/2021	08/17/2021	NA	4	08/21/2021	NA	GOOD
SG-VW21A-04	2108390-14A	08/17/2021	08/17/2021	NA	3	08/20/2021	NA	GOOD
SG-VW24A-05	2108390-15A	08/17/2021	08/17/2021	NA	4	08/21/2021	NA	GOOD
SG-VW29A-03	2108390-16A	08/17/2021	08/17/2021	NA	4	08/21/2021	NA	GOOD
SG-VW64A-02	2108390-17A	08/17/2021	08/17/2021	NA	4	08/21/2021	NA	GOOD
SG-VW59A-02	2108390-18A	08/17/2021	08/17/2021	NA	4	08/21/2021	NA	GOOD
SG-VW59B-02	2108390-19A	08/17/2021	08/17/2021	NA	4	08/21/2021	NA	GOOD
SSV-FSS01-02	2108390-20A	08/17/2021	08/17/2021	NA	4	08/21/2021	NA	GOOD
SSV-FSS01-03	2108390-21A	08/17/2021	08/17/2021	NA	4	08/21/2021	NA	GOOD
SSV-FSS02-02	2108390-22A	08/17/2021	08/17/2021	NA	4	08/21/2021	NA	GOOD
SSV-GSS01-02	2108390-23A	08/17/2021	08/17/2021	NA	4	08/21/2021	NA	GOOD
SSV-GSS02-02	2108390-24A	08/17/2021	08/17/2021	NA	4	08/21/2021	NA	GOOD
SSV-HMBSS01-02	2108390-25A	08/17/2021	08/17/2021	NA	4	08/21/2021	NA	GOOD
SSV-JSS01-02	2108390-26A	08/17/2021	08/17/2021	NA	4	08/21/2021	NA	GOOD
Lab Blank	2108390-27A	NA	NA	NA	NA	08/20/2021	NA	GOOD
Lab Blank	2108390-27B	NA	NA	NA	NA	08/21/2021	NA	GOOD
CCV	2108390-28A	NA	NA	NA	NA	08/20/2021	NA	GOOD
CCV	2108390-28B	NA	NA	NA	NA	08/21/2021	NA	GOOD
LCS	2108390-29A	NA	NA	NA	NA	08/20/2021	NA	GOOD
LCSD	2108390-29AA	NA	NA	NA	NA	08/20/2021	NA	GOOD
LCS	2108390-29B	NA	NA	NA	NA	08/21/2021	NA	GOOD
LCSD	2108390-29BB	NA	NA	NA	NA	08/21/2021	NA	GOOD

Sample Results and Raw Data

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: SG-VW35A-03

Lab ID#: 2108390-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,2,4-Trimethylbenzene	1.0	1.4	5.2	7.0
4-Methyl-2-pentanone	1.0	1.2	4.3	5.1
Cyclohexane	1.0	6.8	3.6	24
Ethyl Benzene	1.0	3.0	4.6	13
Hexane	1.0	1200 E	3.7	4300 E
m,p-Xylene	1.0	12	4.6	53
o-Xylene	1.0	4.2	4.6	18
Tetrachloroethene	1.0	59	7.1	400
Toluene	1.0	1.4	4.0	5.2
TPH ref. to Gasoline (MW=100)	100	1900	430	7800

Client Sample ID: SG-VW44A-03

Lab ID#: 2108390-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1-Difluoroethane	4.3	7.7	12	21
1,2,4-Trimethylbenzene	1.1	1.8	5.2	8.7
4-Ethyltoluene	1.1	1.2	5.3	5.7
4-Methyl-2-pentanone	1.1	1.8	4.4	7.2
Chloroform	1.1	7.2	5.2	35
Cyclohexane	1.1	1.1	3.7	3.9
Ethyl Benzene	1.1	3.6	4.6	16
Hexane	1.1	250	3.8	890
m,p-Xylene	1.1	13	4.6	56
o-Xylene	1.1	4.7	4.6	20
Tetrachloroethene	1.1	1.6	7.2	11
Toluene	1.1	1.8	4.0	6.7
TPH ref. to Gasoline (MW=100)	110	460	440	1900

Client Sample ID: SG-VW17A-03

Lab ID#: 2108390-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: SG-VW17A-03

Lab ID#: 2108390-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1-Difluoroethane	4.0	4.0	11	11
1,2,4-Trimethylbenzene	1.0	1.6	5.0	7.7
2-Propanol	4.0	5.2	9.9	13
4-Ethyltoluene	1.0	1.1	5.0	5.3
4-Methyl-2-pentanone	1.0	1.3	4.1	5.4
Chloroform	1.0	39	4.9	190
Cyclohexane	1.0	2.7	3.5	9.2
Ethyl Benzene	1.0	2.1	4.4	9.1
Hexane	1.0	670 E	3.6	2400 E
m,p-Xylene	1.0	8.7	4.4	38
o-Xylene	1.0	3.5	4.4	15
Tetrachloroethene	1.0	16	6.8	110
Toluene	1.0	1.3	3.8	5.0
TPH ref. to Gasoline (MW=100)	100	1000	410	4100

Client Sample ID: SG-VW58A-02

Lab ID#: 2108390-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
4-Methyl-2-pentanone	1.1	1.2	4.5	4.7
Acetone	11	11	26	27
Ethyl Benzene	1.1	1.6	4.8	6.9
Freon 12	1.1	1.4	5.4	7.0
Hexane	1.1	200	3.8	700
m,p-Xylene	1.1	5.6	4.8	24
o-Xylene	1.1	2.4	4.8	10
Tetrachloroethene	1.1	24	7.4	160
Toluene	1.1	2.5	4.1	9.4
TPH ref. to Gasoline (MW=100)	110	300	450	1200

Client Sample ID: SG-VW58B-02

Lab ID#: 2108390-05A

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: SG-VW58B-02

Lab ID#: 2108390-05A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Propanol	4.1	8.4	10	21
Chloroform	1.0	1.2	5.0	5.6
Freon 12	1.0	3.7	5.1	18
Hexane	1.0	110	3.6	390
m,p-Xylene	1.0	3.3	4.5	14
o-Xylene	1.0	1.2	4.5	5.0
Tetrachloroethene	1.0	55	7.0	380
TPH ref. to Gasoline (MW=100)	100	190	420	780

Client Sample ID: SG-VW60B-02

Lab ID#: 2108390-06A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Chloroform	1.0	1.1	5.1	5.4
Freon 12	1.0	3.4	5.2	17
Hexane	1.0	86	3.7	300
m,p-Xylene	1.0	2.2	4.6	9.4
Tetrachloroethene	1.0	30	7.1	200
Toluene	1.0	2.7	4.0	10
TPH ref. to Gasoline (MW=100)	100	160	430	650

Client Sample ID: SG-VW60A-02

Lab ID#: 2108390-07A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	1.0	1.5	3.2	4.7
Freon 12	1.0	1.6	5.0	7.7
Hexane	1.0	120	3.6	420
m,p-Xylene	1.0	2.2	4.4	9.8
o-Xylene	1.0	1.1	4.4	4.6
Tetrachloroethene	1.0	14	6.8	96
Toluene	1.0	1.9	3.8	7.0
TPH ref. to Gasoline (MW=100)	100	230	410	940

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: SG-VW60A-02

Lab ID#: 2108390-07A

Client Sample ID: SG-VW61A-02

Lab ID#: 2108390-08A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1-Difluoroethane	4.4	5.2	12	14
Acetone	11	17	26	40
Bromodichloromethane	1.1	2.2	7.3	15
Chloroform	1.1	49	5.3	240
Ethyl Benzene	1.1	1.8	4.8	7.7
Freon 12	1.1	1.3	5.4	6.3
Hexane	1.1	86	3.8	300
m,p-Xylene	1.1	4.5	4.8	19
o-Xylene	1.1	2.2	4.8	9.4
Tetrachloroethene	1.1	17	7.4	120
Toluene	1.1	2.9	4.1	11
TPH ref. to Gasoline (MW=100)	110	210	450	860

Client Sample ID: SG-VW63A-02

Lab ID#: 2108390-09A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Propanol	4.2	8.9	10	22
Acetone	10	14	25	34
Chloroform	1.0	2.6	5.1	13
Freon 12	1.0	2.3	5.2	11
Hexane	1.0	53	3.7	190
m,p-Xylene	1.0	1.2	4.6	5.5
Tetrachloroethene	1.0	2.1	7.1	14
TPH ref. to Gasoline (MW=100)	100	140	430	570

Client Sample ID: SG-VW63B-02

Lab ID#: 2108390-10A

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: SG-VW63B-02

Lab ID#: 2108390-10A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Bromodichloromethane	1.0	1.7	7.0	11
Chloroform	1.0	32	5.1	150
Freon 12	1.0	4.6	5.2	22
Hexane	1.0	150	3.7	530
Tetrachloroethene	1.0	18	7.1	120
TPH ref. to Gasoline (MW=100)	100	240	430	980

Client Sample ID: SG-VW63B-03

Lab ID#: 2108390-11A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Bromodichloromethane	1.0	1.8	7.0	12
Chloroform	1.0	31	5.1	150
Freon 12	1.0	4.3	5.2	21
Hexane	1.0	56	3.7	200
Tetrachloroethene	1.0	18	7.1	120
TPH ref. to Gasoline (MW=100)	100	110	430	450

Client Sample ID: SG-VW55A-03

Lab ID#: 2108390-12A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,2,4-Trimethylbenzene	1.0	2.1	5.0	10
4-Ethyltoluene	1.0	2.2	5.0	10
Benzene	1.0	1.0	3.2	3.2
Cyclohexane	1.0	1.6	3.5	5.4
Ethanol	10	19	19	36
Ethyl Benzene	1.0	2.4	4.4	10
Hexane	1.0	190	3.6	670
m,p-Xylene	1.0	9.3	4.4	40
o-Xylene	1.0	3.2	4.4	14
Toluene	1.0	8.6	3.8	32
TPH ref. to Gasoline (MW=100)	100	320	410	1300

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: SG-VW55A-03

Lab ID#: 2108390-12A

Client Sample ID: SG-VW20A-03

Lab ID#: 2108390-13A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,2,4-Trimethylbenzene	0.99	1.6	4.9	7.7
4-Ethyltoluene	0.99	1.5	4.9	7.3
Cyclohexane	0.99	1.0	3.4	3.4
Ethanol	9.9	11	19	22
Ethyl Benzene	0.99	1.6	4.3	7.0
Hexane	0.99	98	3.5	350
m,p-Xylene	0.99	6.5	4.3	28
o-Xylene	0.99	2.2	4.3	9.7
Tetrachloroethene	0.99	4.9	6.7	33
Toluene	0.99	5.4	3.7	20
TPH ref. to Gasoline (MW=100)	99	180	400	740

Client Sample ID: SG-VW21A-04

Lab ID#: 2108390-14A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1-Trichloroethane	0.97	1.0	5.3	5.8
1,1-Difluoroethane	3.9	84	10	230
1,2,4-Trimethylbenzene	0.97	3.4	4.8	16
1,3,5-Trimethylbenzene	0.97	1.1	4.8	5.6
2,2,4-Trimethylpentane	0.97	1.2	4.5	5.8
2-Propanol	3.9	6.1	9.5	15
4-Ethyltoluene	0.97	3.6	4.8	18
Acetone	9.7	22	23	52
Benzene	0.97	1.8	3.1	5.7
Chloroform	0.97	1.8	4.7	9.0
Cyclohexane	0.97	2.7	3.3	9.2
Ethanol	9.7	32	18	61
Ethyl Benzene	0.97	4.2	4.2	18

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: SG-VW21A-04

Lab ID#: 2108390-14A

Heptane	0.97	1.2	4.0	4.8
Hexane	0.97	220	3.4	760
m,p-Xylene	0.97	16	4.2	70
o-Xylene	0.97	5.4	4.2	24
Propylene	3.9	5.0	6.7	8.7
Tetrachloroethene	0.97	14	6.6	99
Toluene	0.97	13	3.6	50
TPH ref. to Gasoline (MW=100)	97	470	400	1900
Trichloroethene	0.97	3.4	5.2	18

Client Sample ID: SG-VW24A-05

Lab ID#: 2108390-15A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1-Difluoroethane	4.0	6.8	11	18
1,2,4-Trimethylbenzene	1.0	1.4	5.0	7.1
2-Propanol	4.0	5.2	9.9	13
4-Ethyltoluene	1.0	1.4	5.0	7.1
Acetone	10	10	24	25
Carbon Disulfide	4.0	4.8	12	15
Cyclohexane	1.0	1.1	3.5	3.7
Ethanol	10	12	19	22
Ethyl Benzene	1.0	1.6	4.4	6.9
Freon 12	1.0	1.6	5.0	7.8
Hexane	1.0	76	3.6	270
m,p-Xylene	1.0	5.9	4.4	26
o-Xylene	1.0	2.1	4.4	9.2
Tetrachloroethene	1.0	39	6.8	260
Toluene	1.0	4.2	3.8	16
TPH ref. to Gasoline (MW=100)	100	160	410	650
Trichloroethene	1.0	1.9	5.4	10

Client Sample ID: SG-VW29A-03

Lab ID#: 2108390-16A

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: SG-VW29A-03

Lab ID#: 2108390-16A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,2,4-Trimethylbenzene	1.1	1.6	5.2	8.1
2-Propanol	4.3	7.6	10	19
4-Ethyltoluene	1.1	1.4	5.3	6.9
Ethanol	11	13	20	25
Ethyl Benzene	1.1	1.3	4.6	5.7
Freon 12	1.1	1.2	5.3	5.7
Hexane	1.1	68	3.8	240
m,p-Xylene	1.1	4.9	4.6	21
o-Xylene	1.1	1.8	4.6	7.8
Tetrachloroethene	1.1	21	7.2	140
Toluene	1.1	3.6	4.0	13
TPH ref. to Gasoline (MW=100)	110	120	440	490

Client Sample ID: SG-VW64A-02

Lab ID#: 2108390-17A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,2,4-Trimethylbenzene	1.0	1.3	5.1	6.4
2-Propanol	4.1	4.0 J	10	9.9 J
4-Ethyltoluene	1.0	1.1	5.1	5.6
Bromodichloromethane	1.0	1.5	6.9	10
Chloroform	1.0	46	5.0	220
Ethanol	10	10	19	20
Ethyl Benzene	1.0	1.3	4.5	5.8
Freon 12	1.0	2.4	5.1	12
Hexane	1.0	48	3.6	170
m,p-Xylene	1.0	4.1	4.5	18
o-Xylene	1.0	1.7	4.5	7.4
Tetrachloroethene	1.0	45	7.0	300
Toluene	1.0	4.2	3.9	16
TPH ref. to Gasoline (MW=100)	100	140	420	570

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: SG-VW59A-02

Lab ID#: 2108390-18A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethanol	10	12	19	22
Ethyl Benzene	1.0	1.0	4.4	4.4
Freon 12	1.0	1.5	5.0	7.5
Hexane	1.0	42	3.6	150
m,p-Xylene	1.0	3.7	4.4	16
o-Xylene	1.0	1.4	4.4	6.1
Tetrachloroethene	1.0	15	6.8	100
Toluene	1.0	3.7	3.8	14

Client Sample ID: SG-VW59B-02

Lab ID#: 2108390-19A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethanol	10	14	20	27
Freon 12	1.0	5.3	5.2	26
Hexane	1.0	36	3.7	130
m,p-Xylene	1.0	2.5	4.6	11
o-Xylene	1.0	1.1	4.6	4.7
Tetrachloroethene	1.0	45	7.1	300
Toluene	1.0	1.7	4.0	6.5

Client Sample ID: SSV-FSS01-02

Lab ID#: 2108390-20A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	1.0	22	3.6	77
m,p-Xylene	1.0	1.1	4.5	4.8
Tetrachloroethene	1.0	1.4	7.0	9.4

Client Sample ID: SSV-FSS01-03

Lab ID#: 2108390-21A

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: SSV-FSS01-03

Lab ID#: 2108390-21A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	1.0	15	3.6	54
m,p-Xylene	1.0	1.3	4.5	5.5
Tetrachloroethene	1.0	1.4	7.0	9.7

Client Sample ID: SSV-FSS02-02

Lab ID#: 2108390-22A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,2,4-Trimethylbenzene	1.0	2.0	5.0	10
4-Ethyltoluene	1.0	1.7	5.0	8.3
Ethanol	10	12	19	22
Hexane	1.0	28	3.6	97
m,p-Xylene	1.0	3.4	4.4	15
o-Xylene	1.0	1.6	4.4	7.1
Propylene	4.0	4.8	7.0	8.2
Tetrachloroethene	1.0	9.3	6.8	63
Toluene	1.0	2.0	3.8	7.7
TPH ref. to Gasoline (MW=100)	100	130	410	530

Client Sample ID: SSV-GSS01-02

Lab ID#: 2108390-23A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	1.0	14	3.6	50
m,p-Xylene	1.0	1.3	4.5	5.5

Client Sample ID: SSV-GSS02-02

Lab ID#: 2108390-24A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Propanol	4.3	12	10	31
Ethanol	11	16	20	30

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: SSV-GSS02-02

Lab ID#: 2108390-24A

Hexane	1.1	21	3.8	75
m,p-Xylene	1.1	1.7	4.6	7.5
Tetrachloroethene	1.1	44	7.2	300
Tetrahydrofuran	1.1	1.6	3.2	4.6
Toluene	1.1	1.1	4.0	4.3
TPH ref. to Gasoline (MW=100)	110	120	440	490

Client Sample ID: SSV-HMBSS01-02

Lab ID#: 2108390-25A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Propanol	4.1	5.2	10	13
Hexane	1.0	16	3.6	58
m,p-Xylene	1.0	1.6	4.5	6.7
Tetrachloroethene	1.0	11	7.0	72

Client Sample ID: SSV-JSS01-02

Lab ID#: 2108390-26A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Propanol	4.2	8.0	10	20
Carbon Disulfide	4.2	10	13	32
Ethanol	10	23	20	44
Hexane	1.0	35	3.7	120
m,p-Xylene	1.0	2.2	4.6	9.5
Tetrachloroethene	1.0	3.4	7.1	23
Toluene	1.0	1.4	4.0	5.2
TPH ref. to Gasoline (MW=100)	100	120	430	490

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Client Sample ID: SG-VW35A-03

Lab ID#: 2108390-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p082008**	**Date of Collection:**	**8/16/21 9:01:00 AM**
Dil. Factor:	**2.10**	**Date of Analysis:**	**8/20/21 03:57 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1,2-Tetrachloroethane	4.2	Not Detected	29	Not Detected
1,1,1-Trichloroethane	1.0	Not Detected	5.7	Not Detected
1,1,2,2-Tetrachloroethane	1.0	Not Detected	7.2	Not Detected
1,1,2-Trichloroethane	1.0	Not Detected	5.7	Not Detected
1,1-Dichloroethane	1.0	Not Detected	4.2	Not Detected
1,1-Dichloroethene	1.0	Not Detected	4.2	Not Detected
1,1-Difluoroethane	4.2	Not Detected	11	Not Detected
1,2,3-Trichloropropane	4.2	Not Detected	25	Not Detected
1,2,4-Trichlorobenzene	4.2	Not Detected	31	Not Detected
1,2,4-Trimethylbenzene	1.0	1.4	5.2	7.0
1,2-Dibromo-3-chloropropane	4.2	Not Detected	40	Not Detected
1,2-Dibromoethane (EDB)	1.0	Not Detected	8.1	Not Detected
1,2-Dichlorobenzene	1.0	Not Detected	6.3	Not Detected
1,2-Dichloroethane	1.0	Not Detected	4.2	Not Detected
1,2-Dichloropropane	1.0	Not Detected	4.8	Not Detected
1,3,5-Trimethylbenzene	1.0	Not Detected	5.2	Not Detected
1,3-Butadiene	1.0	Not Detected	2.3	Not Detected
1,3-Dichlorobenzene	1.0	Not Detected	6.3	Not Detected
1,4-Dichlorobenzene	1.0	Not Detected	6.3	Not Detected
1,4-Dioxane	4.2	Not Detected	15	Not Detected
2,2,4-Trimethylpentane	1.0	Not Detected	4.9	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.2	Not Detected	12	Not Detected
2-Hexanone	4.2	Not Detected	17	Not Detected
2-Propanol	4.2	Not Detected	10	Not Detected
3-Chloropropene	4.2	Not Detected	13	Not Detected
4-Ethyltoluene	1.0	Not Detected	5.2	Not Detected
4-Methyl-2-pentanone	1.0	1.2	4.3	5.1
Acetone	10	Not Detected	25	Not Detected
Acrolein	4.2	Not Detected	9.6	Not Detected
Acrylonitrile	4.2	Not Detected	9.1	Not Detected
alpha-Chlorotoluene	1.0	Not Detected	5.4	Not Detected
Benzene	1.0	Not Detected	3.4	Not Detected
Bromodichloromethane	1.0	Not Detected	7.0	Not Detected
Bromoform	1.0	Not Detected	11	Not Detected
Bromomethane	10	Not Detected	41	Not Detected
Carbon Disulfide	4.2	Not Detected	13	Not Detected
Carbon Tetrachloride	1.0	Not Detected	6.6	Not Detected
Chlorobenzene	1.0	Not Detected	4.8	Not Detected
Chloroethane	4.2	Not Detected	11	Not Detected
Chloroform	1.0	Not Detected	5.1	Not Detected
Chloromethane	10	Not Detected	22	Not Detected
cis-1,2-Dichloroethene	1.0	Not Detected	4.2	Not Detected

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Client Sample ID: SG-VW35A-03

Lab ID#: 2108390-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p082008**	**Date of Collection:**	**8/16/21 9:01:00 AM**
Dil. Factor:	**2.10**	**Date of Analysis:**	**8/20/21 03:57 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,3-Dichloropropene	1.0	Not Detected	4.8	Not Detected
Cumene	1.0	Not Detected	5.2	Not Detected
Cyclohexane	1.0	6.8	3.6	24
Dibromochloromethane	1.0	Not Detected	8.9	Not Detected
Dibromomethane	4.2	Not Detected	30	Not Detected
Ethanol	10	Not Detected	20	Not Detected
Ethyl Acetate	4.2	Not Detected	15	Not Detected
Ethyl Benzene	1.0	3.0	4.6	13
Ethyl-tert-butyl ether	4.2	Not Detected	18	Not Detected
Freon 11	1.0	Not Detected	5.9	Not Detected
Freon 12	1.0	Not Detected	5.2	Not Detected
Freon 113	1.0	Not Detected	8.0	Not Detected
Freon 114	1.0	Not Detected	7.3	Not Detected
Freon 134a	4.2	Not Detected	18	Not Detected
Heptane	1.0	Not Detected	4.3	Not Detected
Hexachlorobutadiene	4.2	Not Detected	45	Not Detected
Hexachloroethane	4.2	Not Detected	41	Not Detected
Hexane	1.0	1200 E	3.7	4300 E
Iodomethane	10	Not Detected	61	Not Detected
Isopropyl ether	4.2	Not Detected	18	Not Detected
m,p-Xylene	1.0	12	4.6	53
Methyl tert-butyl ether	4.2	Not Detected	15	Not Detected
Methylene Chloride	10	Not Detected	36	Not Detected
Naphthalene	2.1	Not Detected	11	Not Detected
o-Xylene	1.0	4.2	4.6	18
Propylbenzene	1.0	Not Detected	5.2	Not Detected
Propylene	4.2	Not Detected	7.2	Not Detected
Styrene	1.0	Not Detected	4.5	Not Detected
tert-Amyl methyl ether	4.2	Not Detected	18	Not Detected
tert-Butyl alcohol	4.2	Not Detected	13	Not Detected
Tetrachloroethene	1.0	59	7.1	400
Tetrahydrofuran	1.0	Not Detected	3.1	Not Detected
Toluene	1.0	1.4	4.0	5.2
TPH ref. to Gasoline (MW=100)	100	1900	430	7800
trans-1,2-Dichloroethene	1.0	Not Detected	4.2	Not Detected
trans-1,3-Dichloropropene	1.0	Not Detected	4.8	Not Detected
Trichloroethene	1.0	Not Detected	5.6	Not Detected
Vinyl Acetate	4.2	Not Detected	15	Not Detected
Vinyl Bromide	4.2	Not Detected	18	Not Detected
Vinyl Chloride	1.0	Not Detected	2.7	Not Detected

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Client Sample ID: SG-VW35A-03

Lab ID#: 2108390-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p082008**	**Date of Collection: 8/16/21 9:01:00 AM**
Dil. Factor:	**2.10**	**Date of Analysis: 8/20/21 03:57 PM**

E = Exceeds instrument calibration range.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	113	70-130
4-Bromofluorobenzene	103	70-130

US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/20AUG21.b/p082008.d
Lab Smp Id: 2108390-01A
Inj Date : 20-AUG-2021 15:57
Operator : mjb Inst ID: msdp.i
Smp Info : 200ml N3129
Misc Info : 6.0 Hg->10 psi
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/20AUG21.b/p21q0519a.m
Meth Date : 20-Aug-2021 12:59 p5fl Quant Type: ISTD
Cal Date : 19-MAY-2021 19:45 Cal File: p051915.d
Als bottle: 1
Dil Factor: 2.10000
Integrator: HP RTE Compound Sublist: AEC25677.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE		(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 90 Bromochloromethane							CAS #: 74-97-5	
5.785	5.785 (1.000)	130	111350	25.0000			80.00- 120.00	100.00
5.785	5.785 (1.000)	128	89276				48.23- 108.23	80.18
5.785	5.778 (1.000)	49	253864				150.57- 210.57	227.99
* 108 1,4-Difluorobenzene							CAS #: 540-36-3	
6.666	6.659 (1.000)	114	427337	25.0000			80.00- 120.00	100.00
6.659	6.659 (1.000)	88	61064				0.00- 45.71	14.29
* 153 Chlorobenzene-d5							CAS #: 3114-55-4	
9.460	9.460 (1.000)	117	424317	25.0000			80.00- 120.00	100.00
9.460	9.460 (1.000)	82	218267				23.78- 83.78	51.44
$ 104 1,2-Dichloroethane-d4							CAS #: 17060-07-0	
6.315	6.315 (1.092)	65	174226	28.3520	28.352		80.00- 120.00	100.00
6.315	6.315 (1.092)	67	80984				27.21- 87.21	46.48
$ 134 Toluene-d8							CAS #: 2037-26-5	
7.891	7.891 (1.184)	98	462142	24.9044	24.904		80.00- 120.00	100.00
7.891	7.891 (1.184)	70	48755				0.00- 40.44	10.55

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 134 Toluene-d8 (continued)							
7.891	7.891 (1.184)	100	297784			34.95- 94.95	64.44
$ 170 4-Bromofluorobenzene					CAS #: 460-00-4		
10.921	10.921 (1.154)	174	281844	25.8668	25.867	80.00- 120.00	100.00
10.921	10.914 (1.154)	95	333987			95.92- 155.92	118.50
10.921	10.921 (1.154)	176	271833			66.89- 126.89	96.45
67 Hexane					CAS #: 110-54-3		
4.696	4.697 (0.812)	57	6421609	585.419	1229.4	80.00- 120.00	100.00(A)
4.696	4.697 (0.812)	43	4909420			37.52- 97.52	76.45
4.696	4.697 (0.812)	86	632395			0.00- 41.48	9.85
94 Cyclohexane					CAS #: 110-82-7		
5.957	5.957 (1.030)	84	22785	3.25298	6.831	80.00- 120.00	100.00
5.957	5.957 (1.030)	56	44214			142.57- 202.57	194.05
5.957	5.957 (1.030)	41	28624			62.09- 122.09	125.63
131 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.798	7.798 (1.170)	58	4331	0.58992	1.239	80.00- 120.00	100.00
7.798	7.798 (1.170)	43	13604			242.35- 302.35	314.09
7.798	7.798 (1.170)	85	1061			3.24- 63.24	24.50
137 Toluene					CAS #: 108-88-3		
7.956	7.956 (1.193)	91	12701	0.65281	1.371	80.00- 120.00	100.00
7.956	7.956 (1.193)	92	6992			28.38- 88.38	55.05
142 Tetrachloroethene					CAS #: 127-18-4		
8.464	8.464 (0.895)	166	273273	28.2583	59.342	80.00- 120.00	100.00
8.464	8.464 (0.895)	129	213183			47.84- 107.84	78.01
8.464	8.464 (0.895)	131	207281			45.29- 105.29	75.85
155 Ethyl Benzene					CAS #: 100-41-4		
9.567	9.567 (1.011)	106	12726	1.44444	3.033	80.00- 120.00	100.00
9.567	9.567 (1.011)	91	38238			273.74- 333.74	300.47
158 m,p-Xylene					CAS #: 108-38-3		
9.718	9.718 (1.027)	106	63815	5.78326	12.145	80.00- 120.00	100.00
9.718	9.718 (1.027)	91	117675			163.73- 223.73	184.40
164 o-Xylene					CAS #: 95-47-6		
10.226	10.226 (1.081)	106	20999	1.98624	4.171	80.00- 120.00	100.00
10.226	10.226 (1.081)	91	43471			177.45- 237.45	207.01
190 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
11.816	11.817 (1.249)	105	18925	0.68003	1.428	80.00- 120.00	100.00

					CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)		
RT	EXP RT	(REL RT)	MASS	RESPONSE			TARGET RANGE	RATIO
190 1,2,4-Trimethylbenzene (continued)								
11.816	11.817	(1.249)	120	9301			19.05- 79.05	49.15

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p082008.d
Lab Smp Id: 2108390-01A
Analysis Type: VOA
Quant Type: ISTD
Operator: mjb
Method File: /chem/msdp.i/20AUG21.b/p21q0519a.m
Misc Info: 6.0 Hg->10 psi

Calibration Date: 20-AUG-2021
Calibration Time: 11:13
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	109375	65625	153125	111350	1.81
108 1,4-Difluorobenze	406799	244079	569519	427337	5.05
153 Chlorobenzene-d5	400841	240505	561177	424317	5.86

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.79	5.46	6.12	5.79	-0.00
108 1,4-Difluorobenze	6.66	6.33	6.99	6.67	0.10
153 Chlorobenzene-d5	9.46	9.13	9.79	9.46	-0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 24-Aug-2021 10:29

US32TAR1

RECOVERY REPORT

Client Name: Client SDG: 20AUG21
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 2108390-01A
Level: LOW Operator: mjb
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT20_new.spk Quant Type: ISTD
Sublist File: AEC25677.sub
Method File: /chem/msdp.i/20AUG21.b/p21q0519a.m
Misc Info: 6.0 Hg->10 psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 104 1,2-Dichloroethan	25.000	28.352	113.41	70-130
$ 134 Toluene-d8	25.000	24.904	99.62	70-130
$ 170 4-Bromofluorobenz	25.000	25.867	103.47	70-130

Data File: /chem/msdp.i/20AUG21.b/p082008.d

Date : 20-AUG-2021 15:57

Client ID:

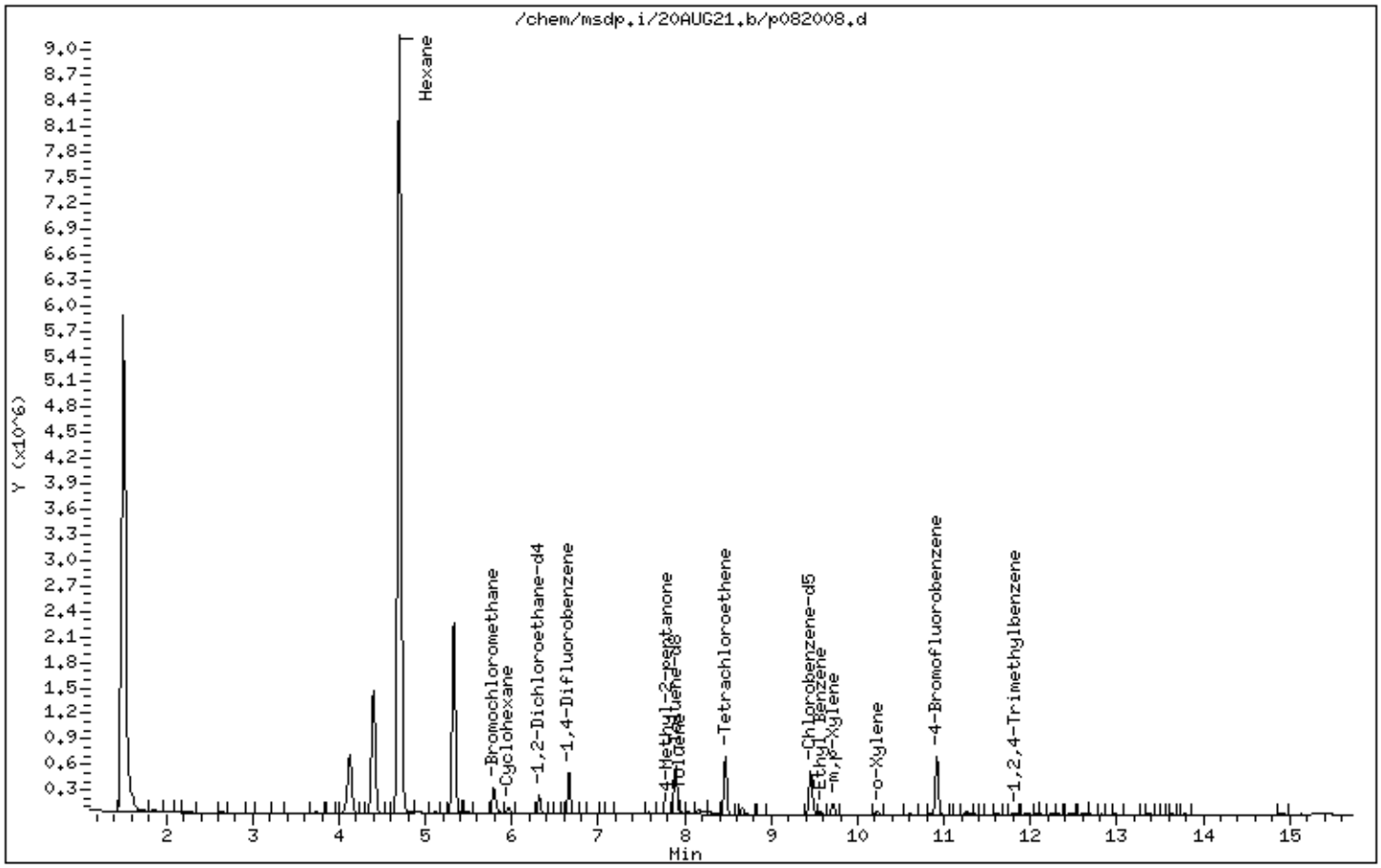
Instrument: msdp.i

Sample Info: 200ml N3129

Operator: mjb

Column phase: RTX-624

Column diameter: 0.25



Data File: /chem/msdp.i/20AUG21.b/p082008.d

Date : 20-AUG-2021 15:57

Client ID:

Instrument: msdp.i

Sample Info: 200ml N3129

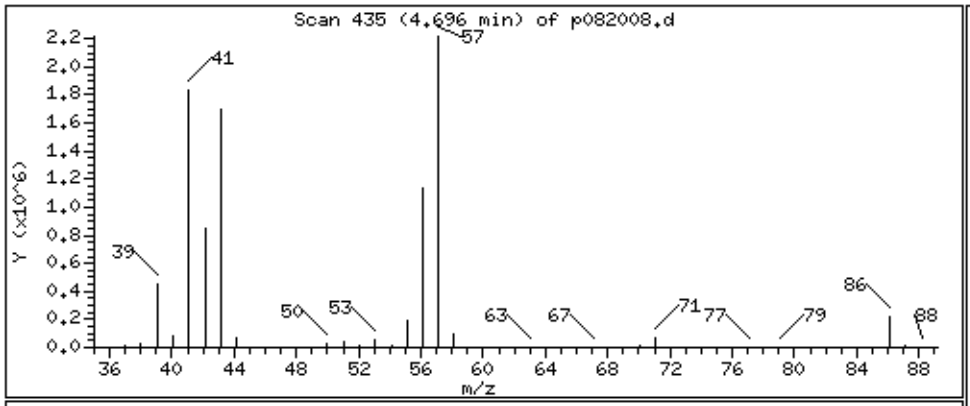
Operator: mjb

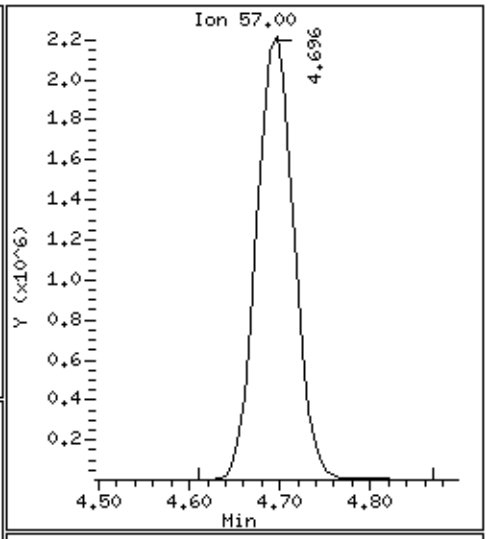
Column phase: RTX-624

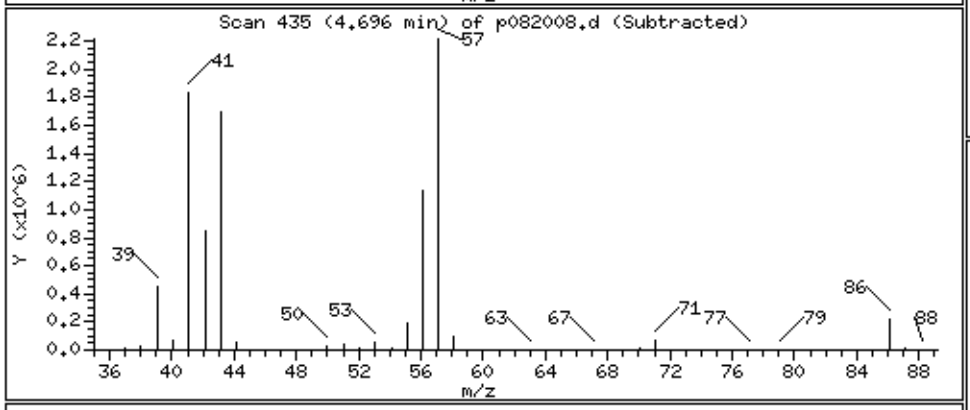
Column diameter: 0.25

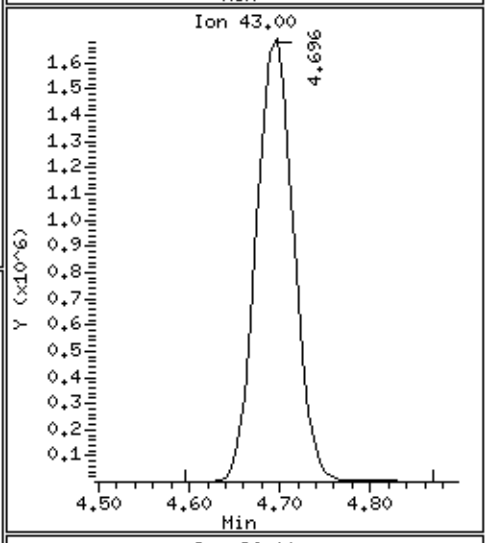
67 Hexane

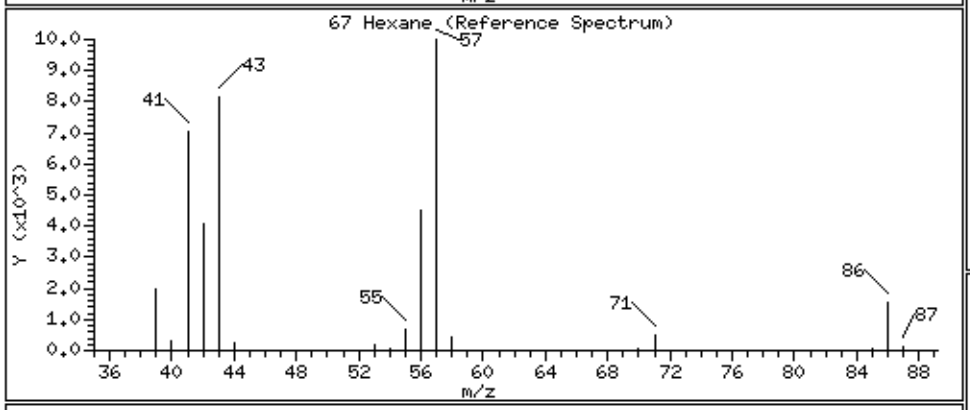
Concentration: 1229.4 PPBV

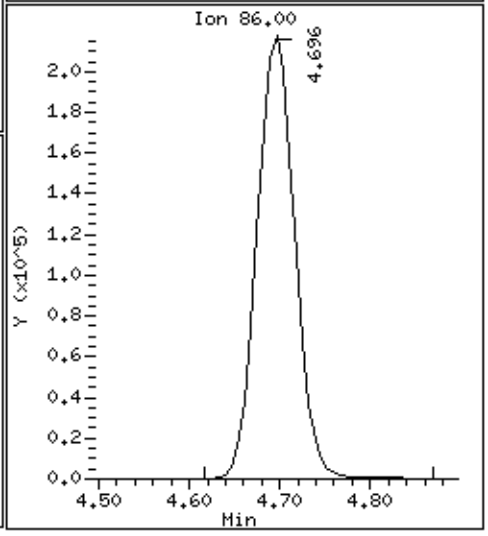


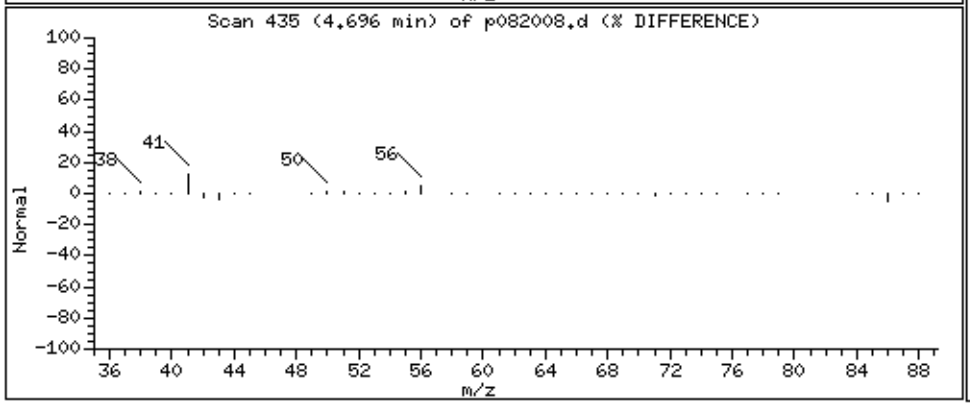












Data File: /chem/msdp.i/20AUG21.b/p082008.d

Date : 20-AUG-2021 15:57

Client ID:

Instrument: msdp.i

Sample Info: 200ml N3129

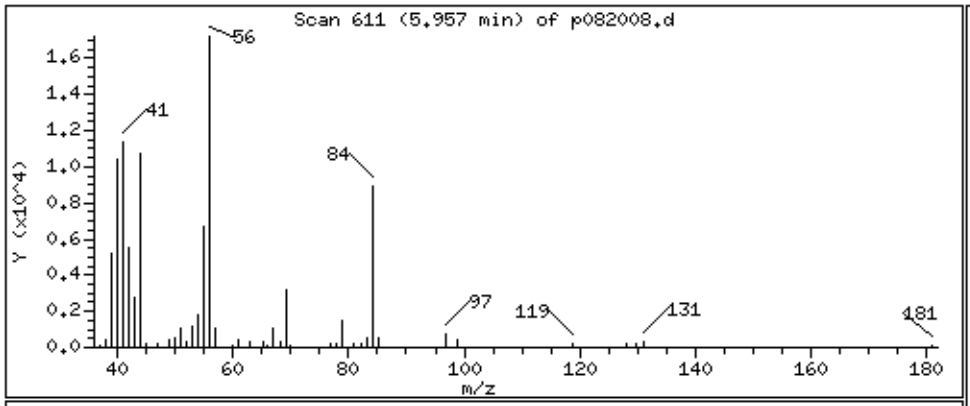
Operator: mjb

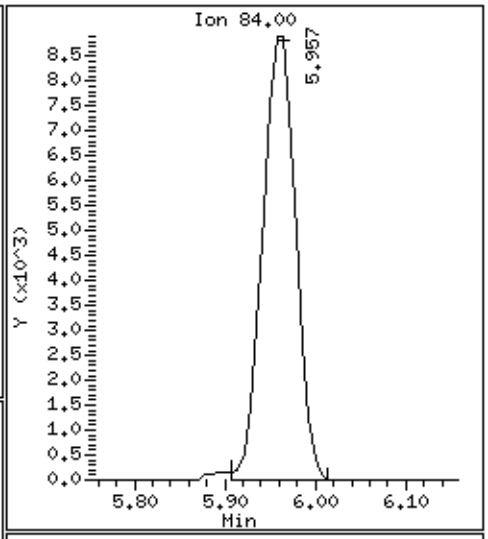
Column phase: RTX-624

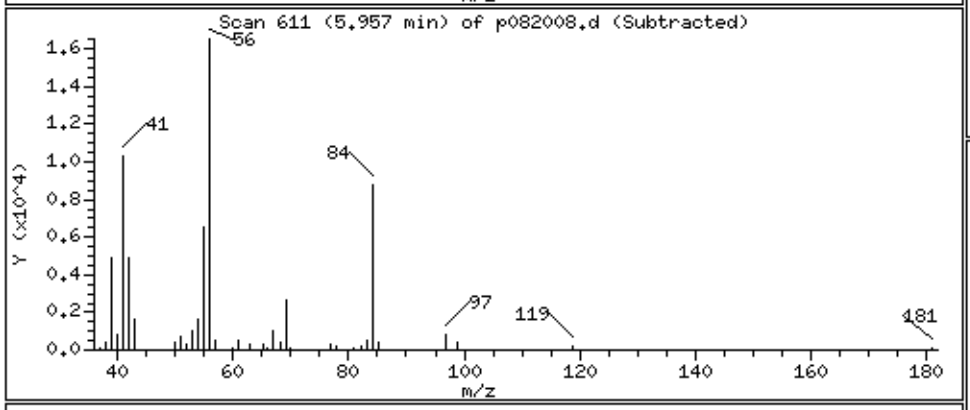
Column diameter: 0.25

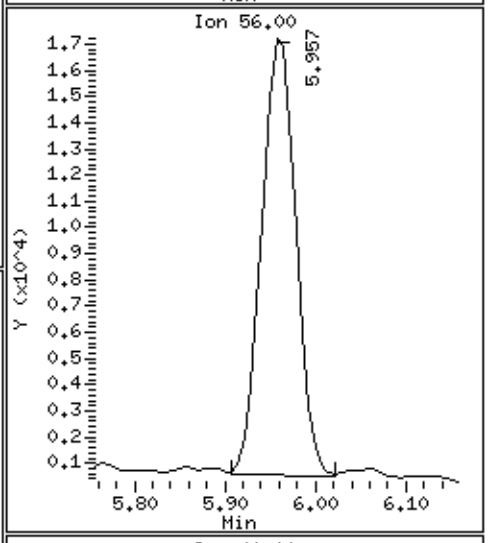
94 Cyclohexane

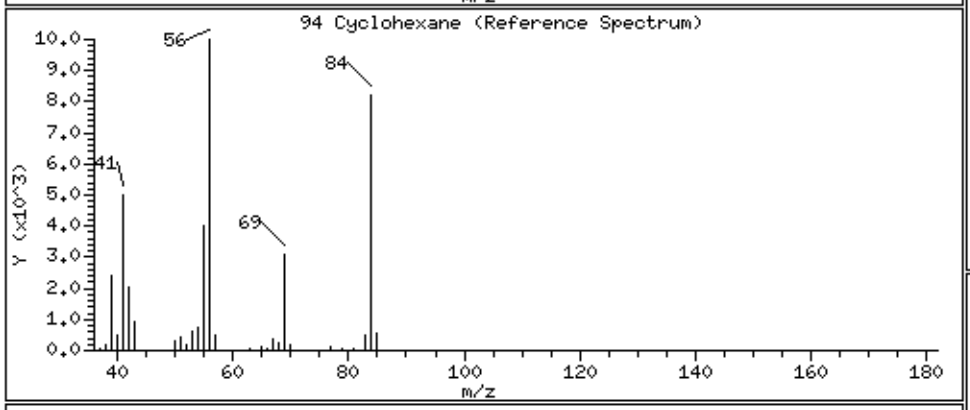
Concentration: 6.831 PPBV

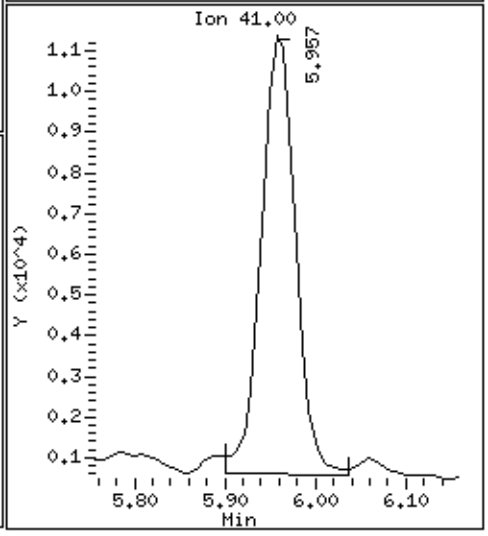


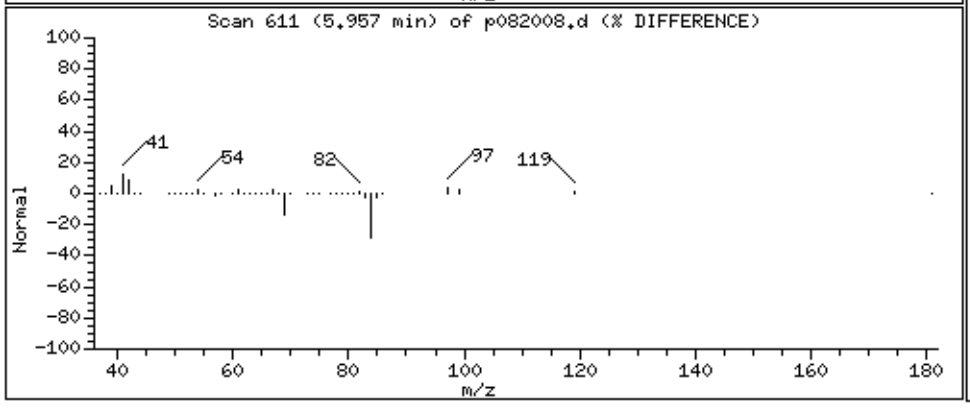












Data File: /chem/msdp.i/20AUG21.b/p082008.d

Date : 20-AUG-2021 15:57

Client ID:

Instrument: msdp.i

Sample Info: 200ml N3129

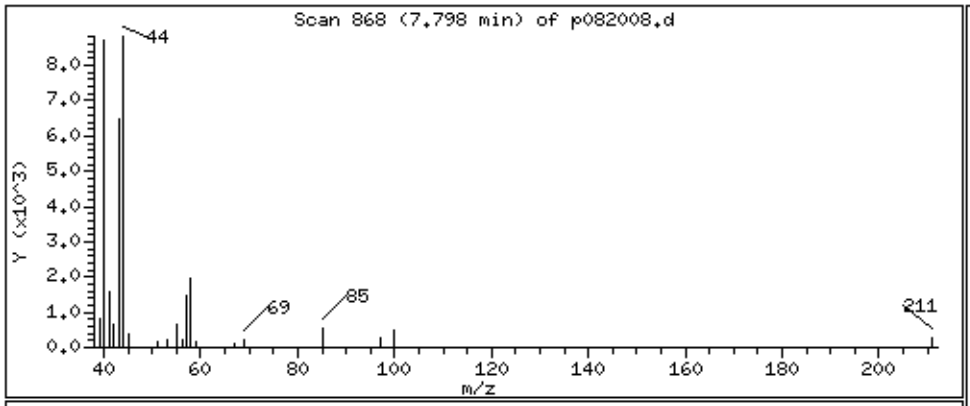
Operator: mjb

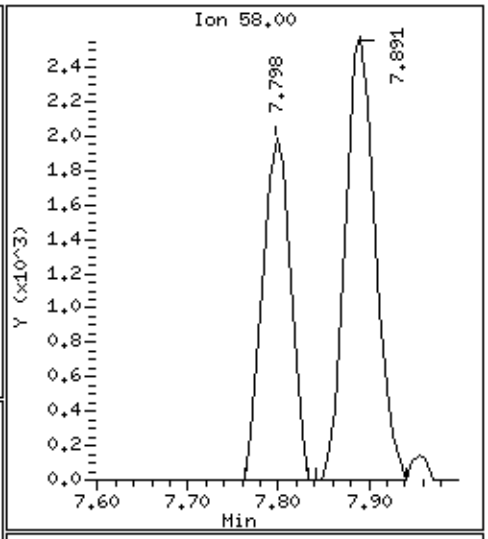
Column phase: RTX-624

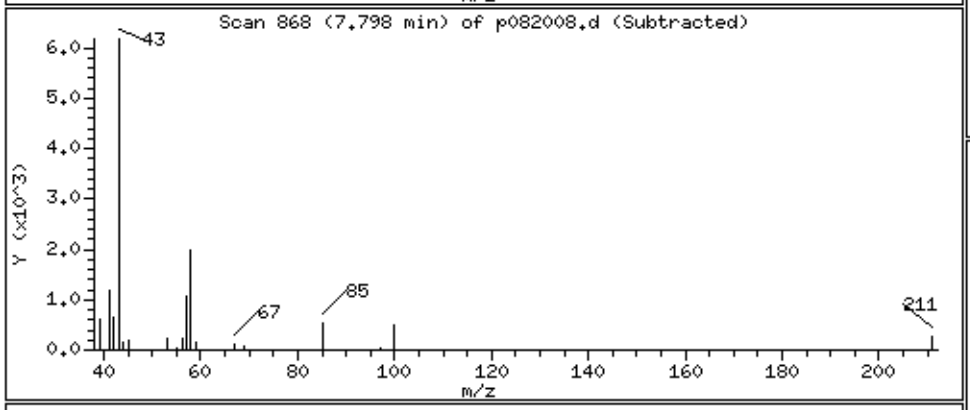
Column diameter: 0.25

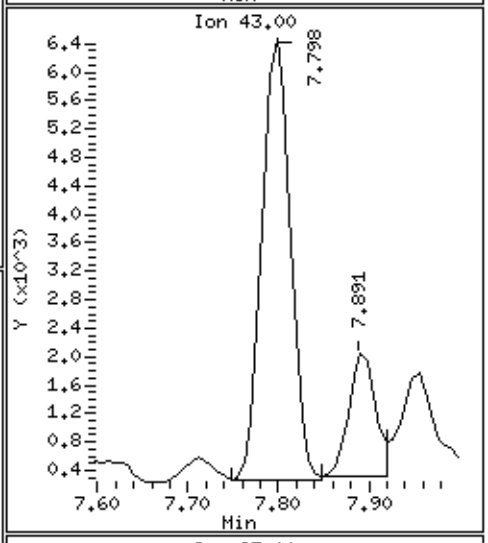
131 4-Methyl-2-pentanone

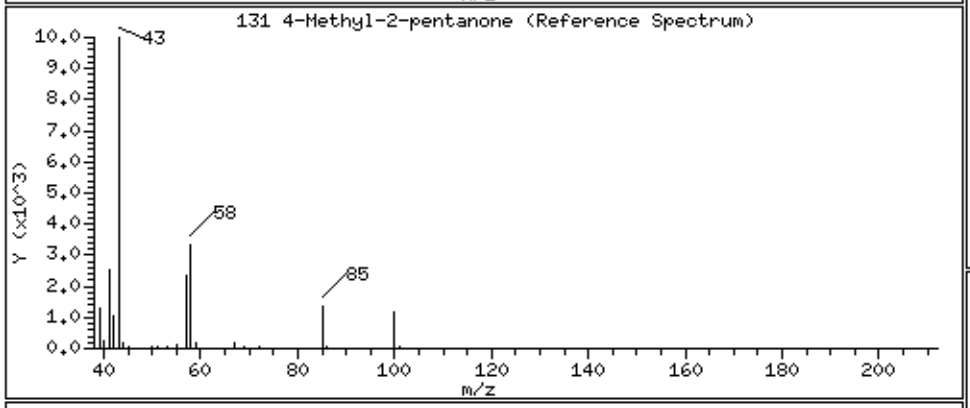
Concentration: 1.239 PPBV

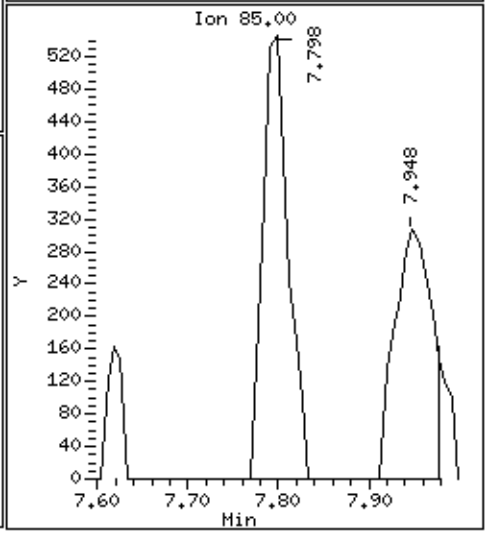


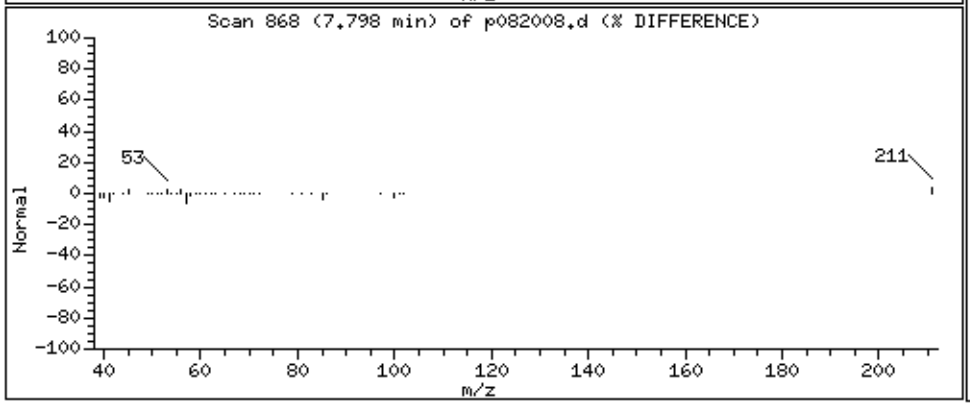












Data File: /chem/msdp.i/20AUG21.b/p082008.d

Date : 20-AUG-2021 15:57

Client ID:

Instrument: msdp.i

Sample Info: 200ml N3129

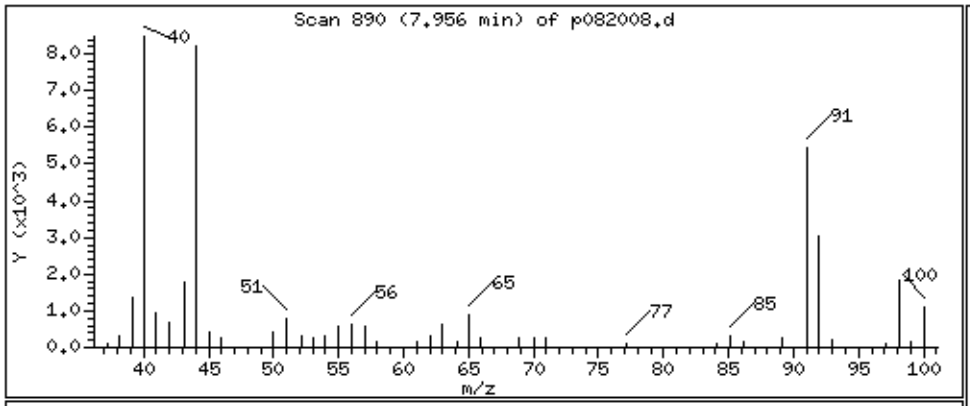
Operator: mjb

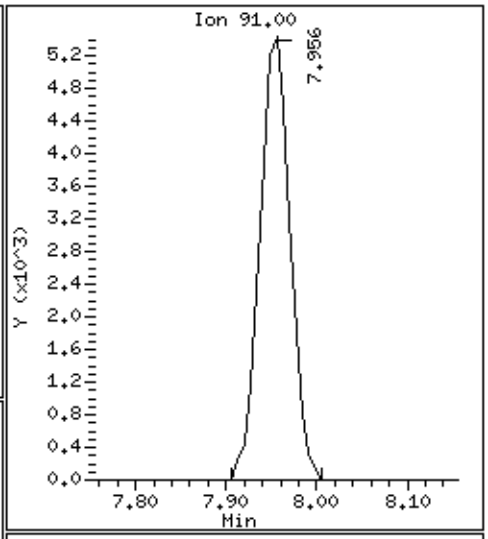
Column phase: RTX-624

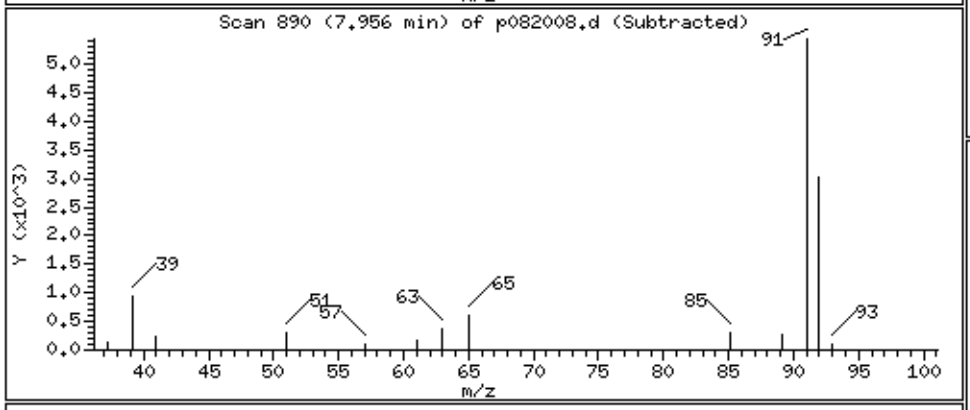
Column diameter: 0.25

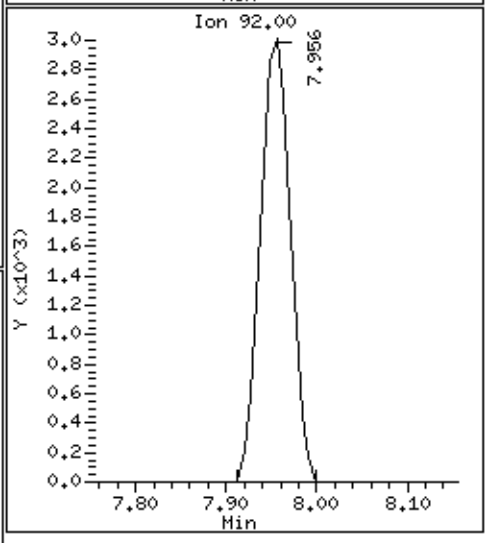
137 Toluene

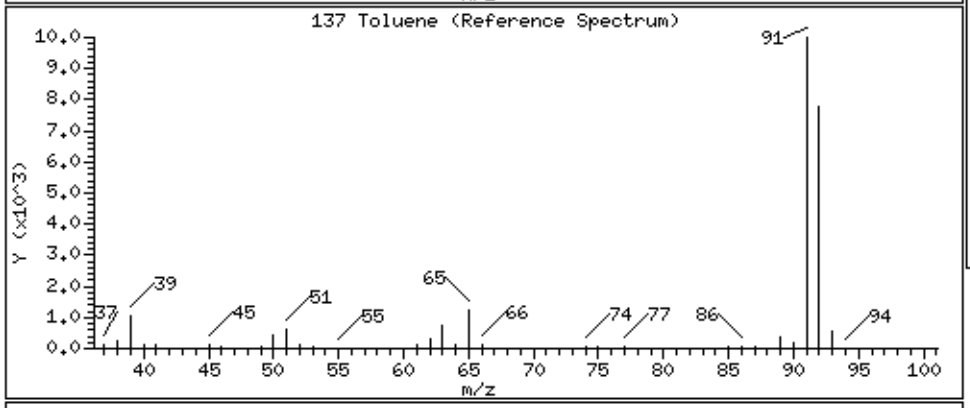
Concentration: 1.371 PPBV

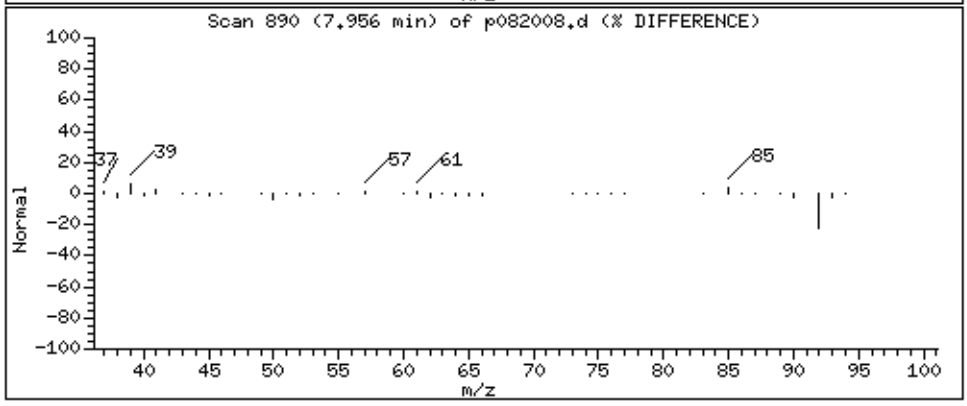












Data File: /chem/msdp.i/20AUG21.b/p082008.d

Date : 20-AUG-2021 15:57

Client ID:

Instrument: msdp.i

Sample Info: 200ml N3129

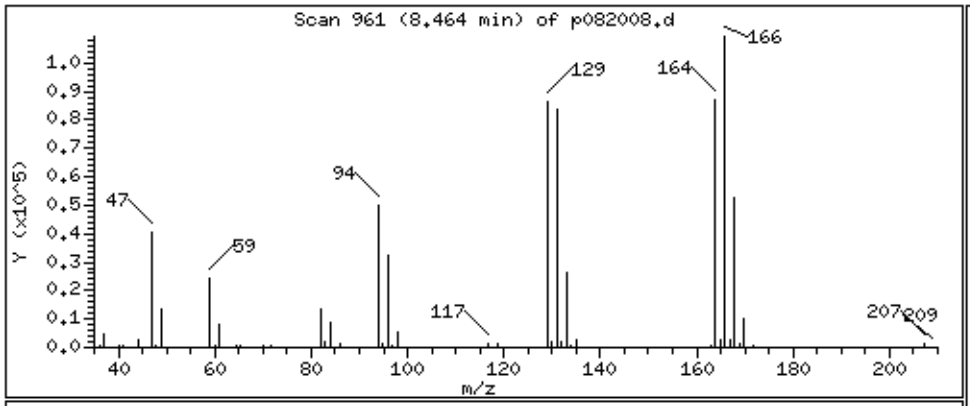
Operator: mjb

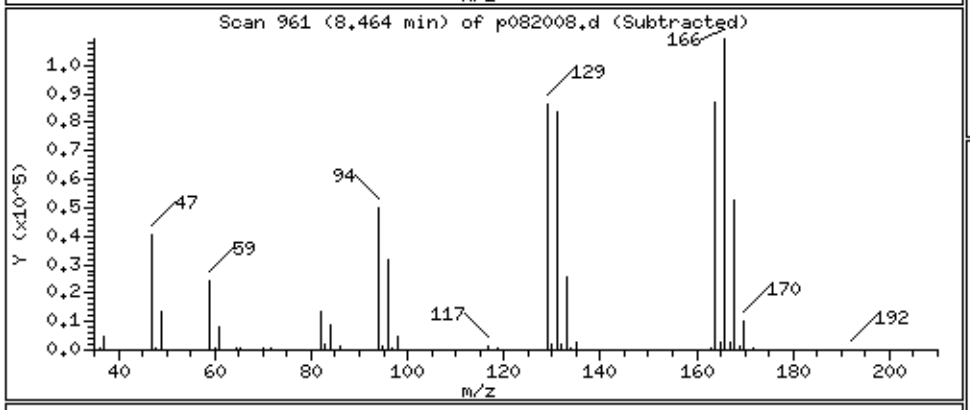
Column phase: RTX-624

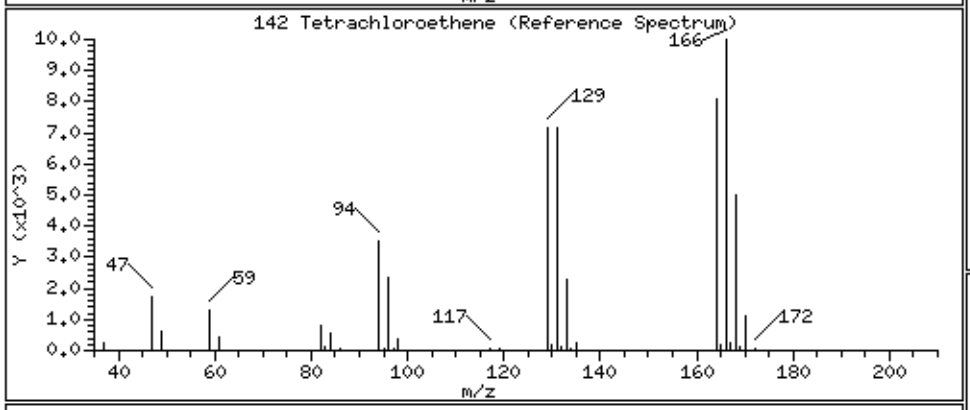
Column diameter: 0.25

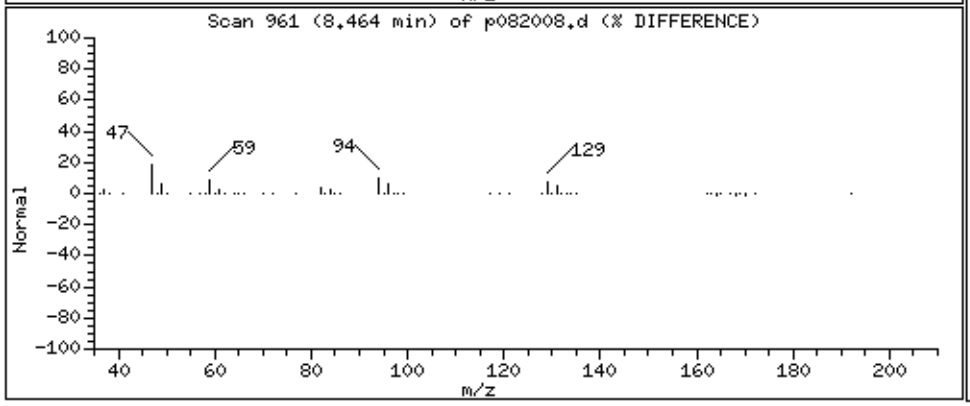
142 Tetrachloroethene

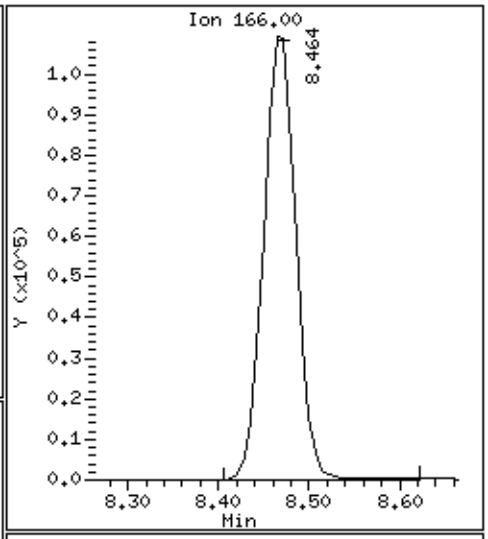
Concentration: 59.342 PPBV

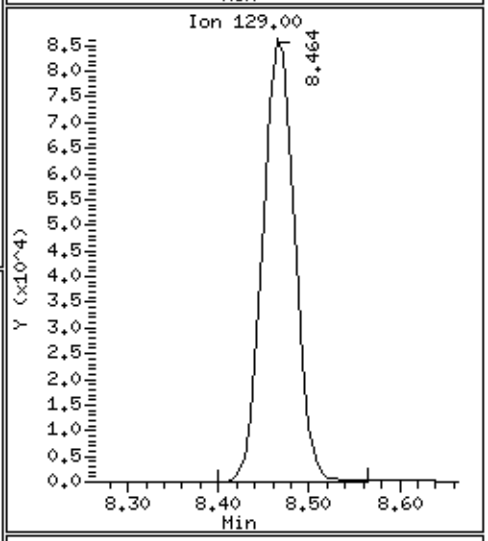


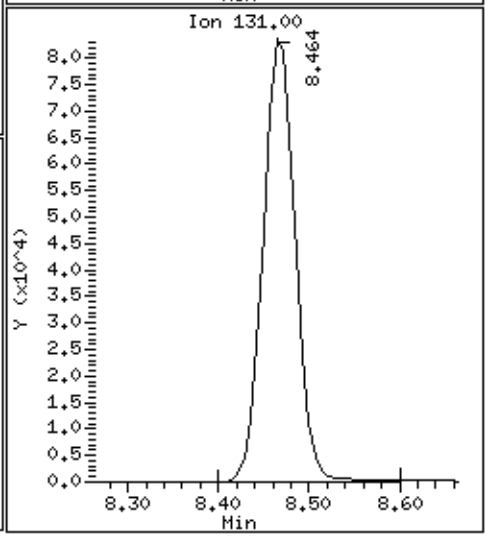












Data File: /chem/msdp.i/20AUG21.b/p082008.d

Date : 20-AUG-2021 15:57

Client ID:

Instrument: msdp.i

Sample Info: 200ml N3129

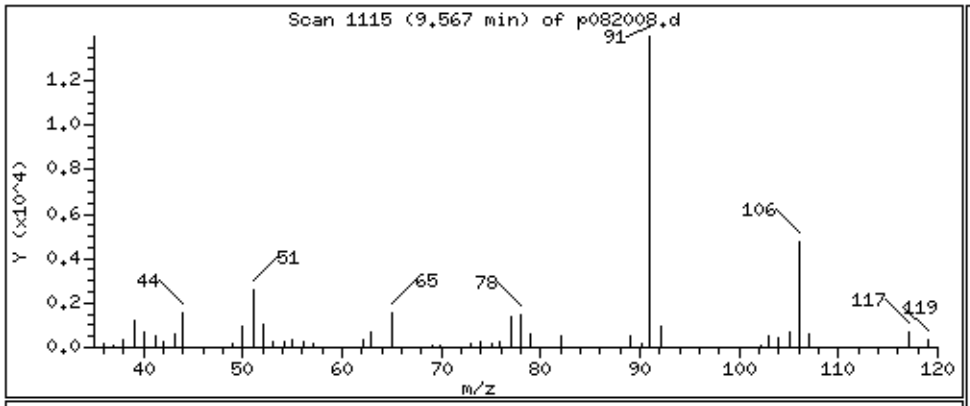
Operator: mjb

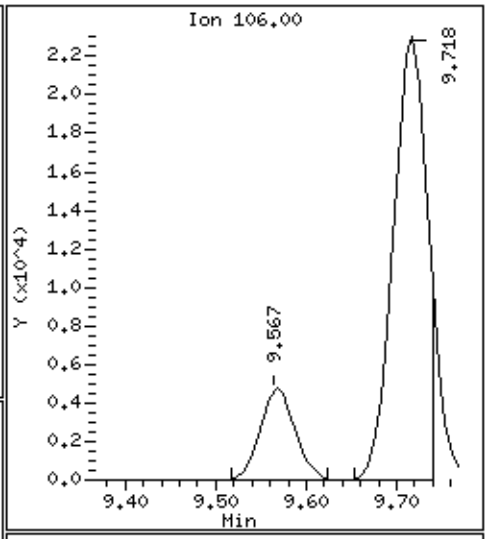
Column phase: RTX-624

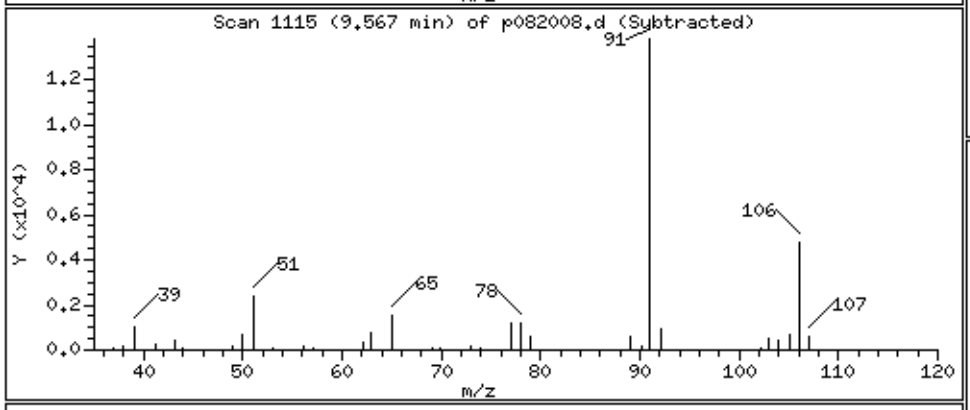
Column diameter: 0.25

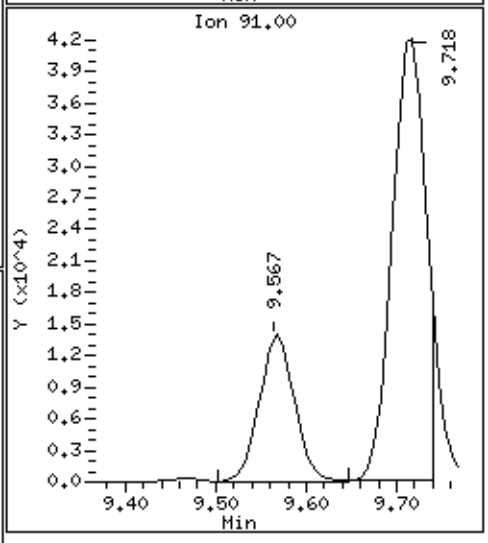
155 Ethyl Benzene

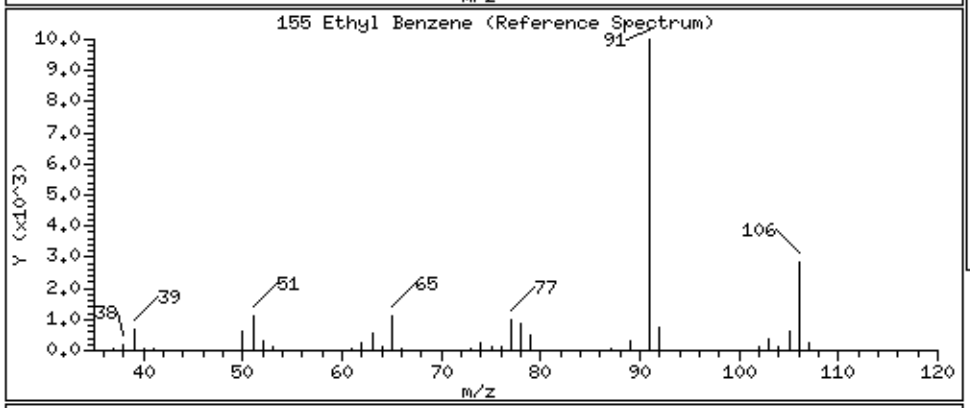
Concentration: 3.033 PPBV

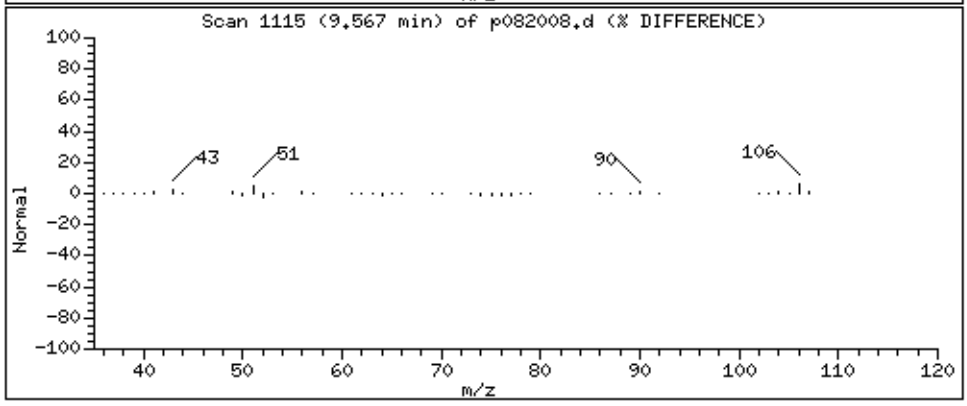












Data File: /chem/msdp.i/20AUG21.b/p082008.d

Date : 20-AUG-2021 15:57

Client ID:

Instrument: msdp.i

Sample Info: 200ml N3129

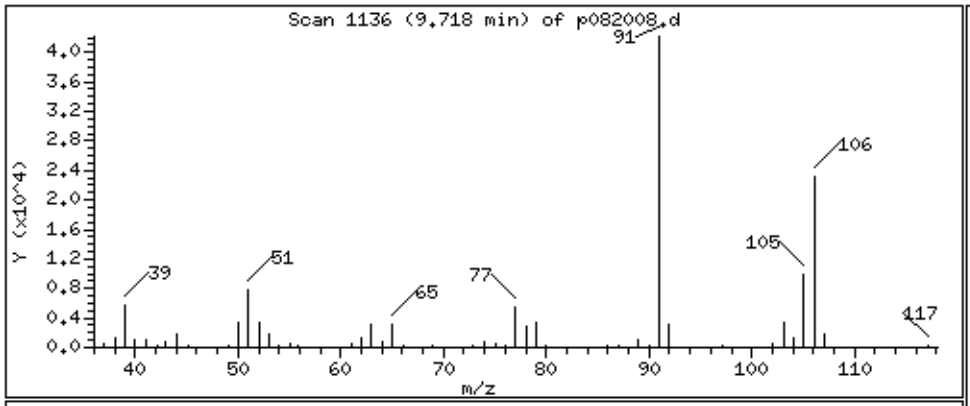
Operator: mjb

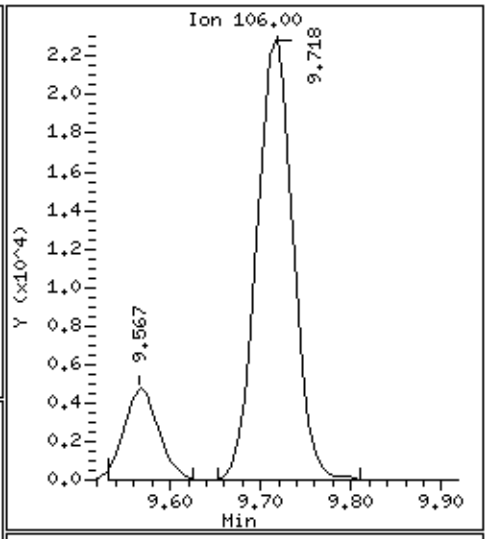
Column phase: RTX-624

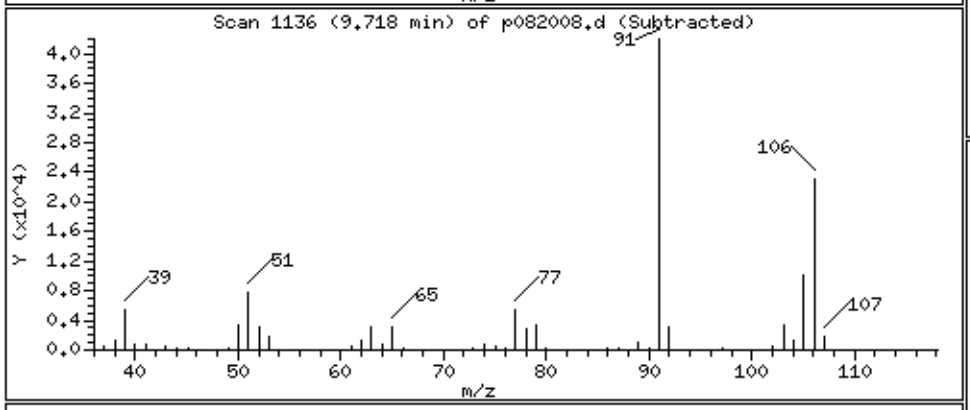
Column diameter: 0.25

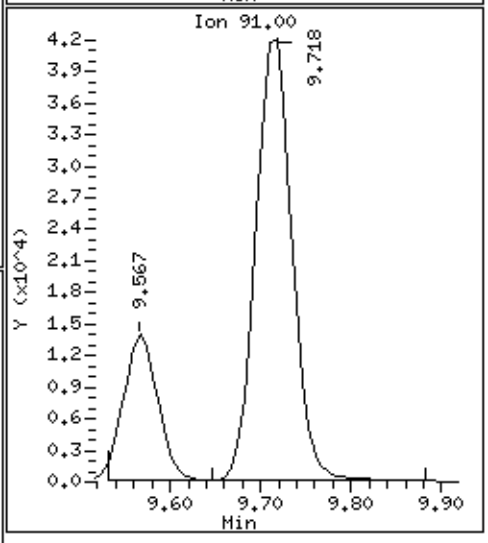
158 m,p-Xylene

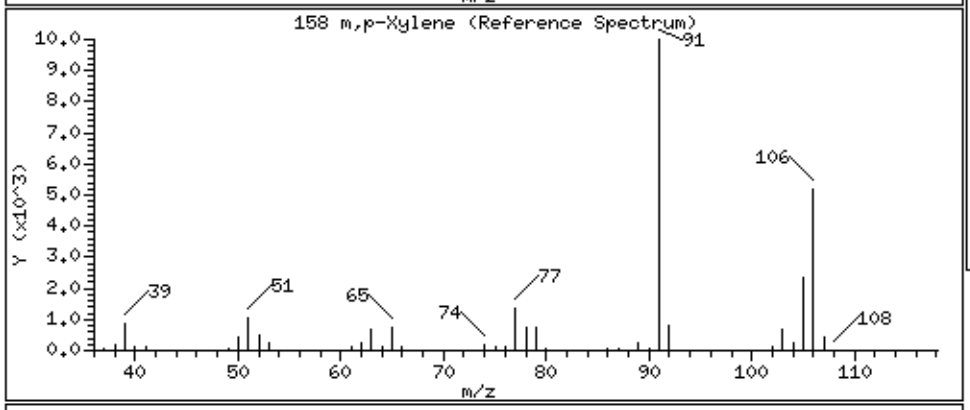
Concentration: 12.145 PPBV

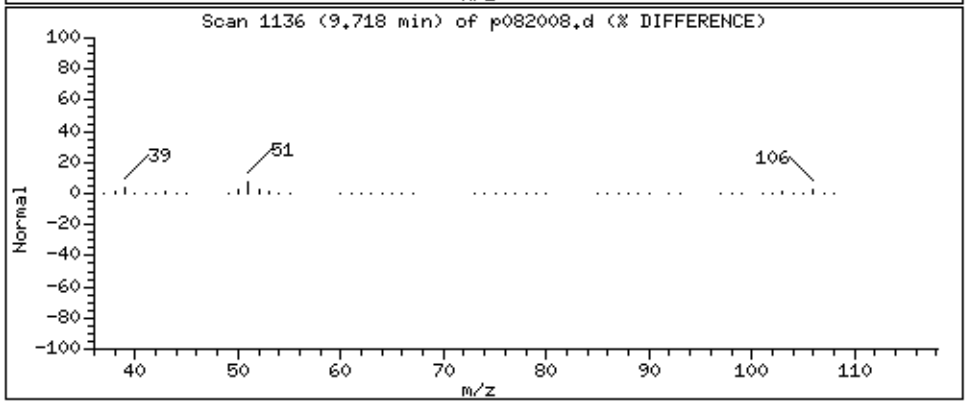












Data File: /chem/msdp.i/20AUG21.b/p082008.d

Date : 20-AUG-2021 15:57

Client ID:

Instrument: msdp.i

Sample Info: 200ml N3129

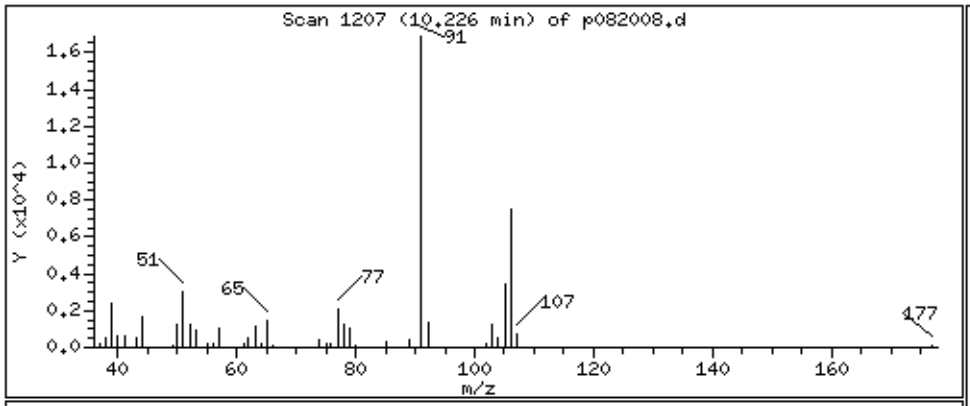
Operator: mjb

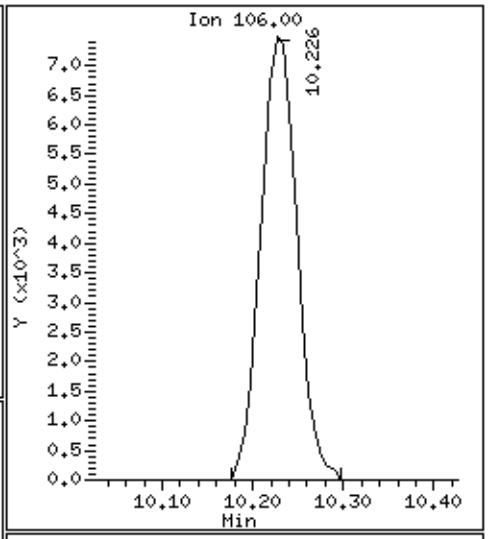
Column phase: RTX-624

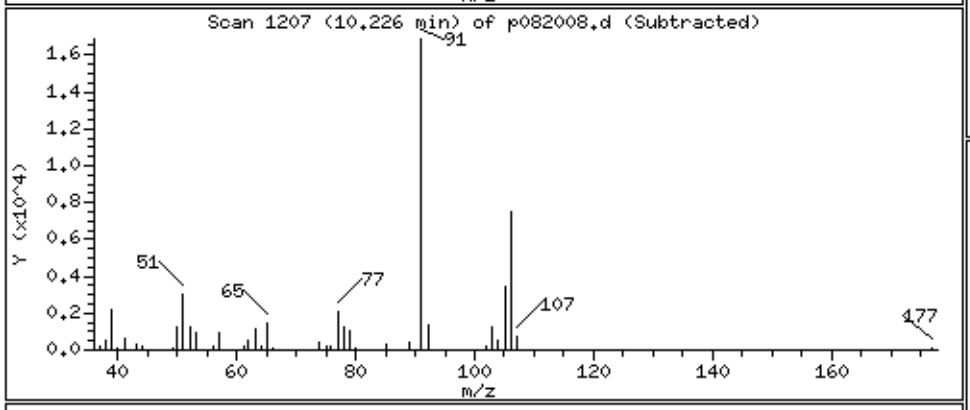
Column diameter: 0.25

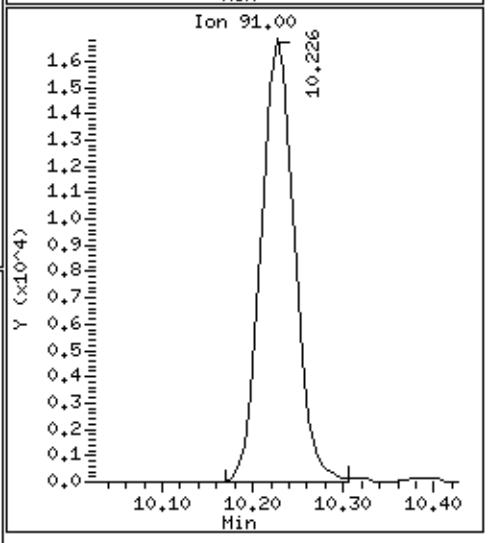
164 o-Xylene

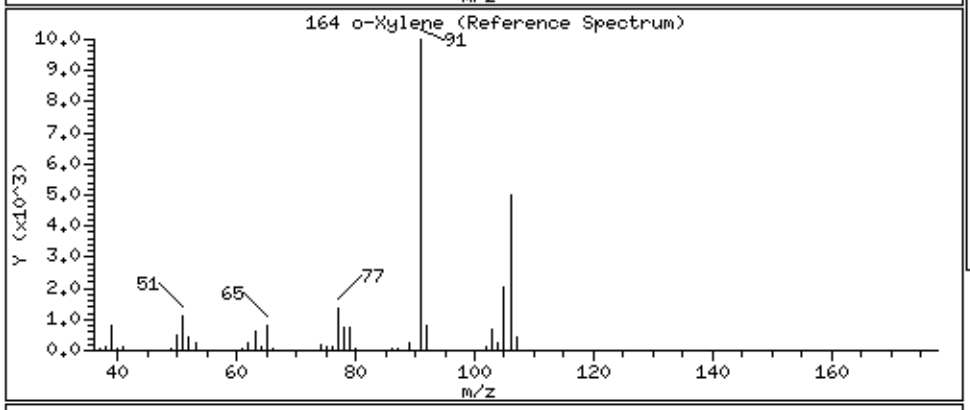
Concentration: 4.171 PPBV

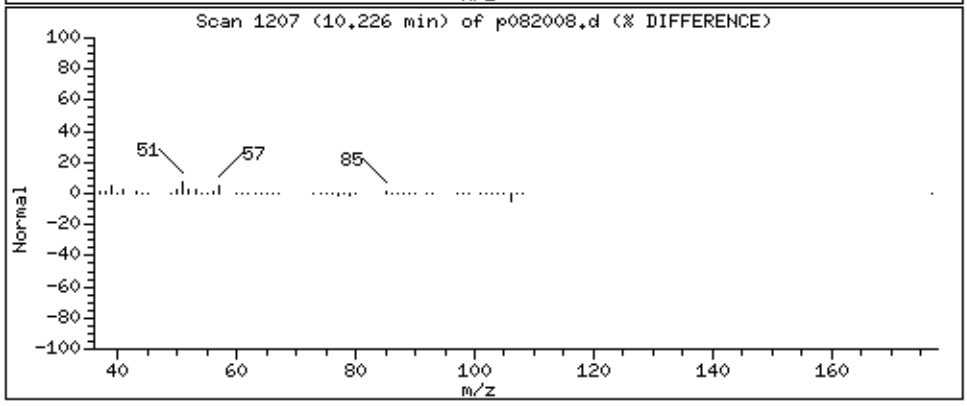












Data File: /chem/msdp.i/20AUG21.b/p082008.d

Date : 20-AUG-2021 15:57

Client ID:

Instrument: msdp.i

Sample Info: 200ml N3129

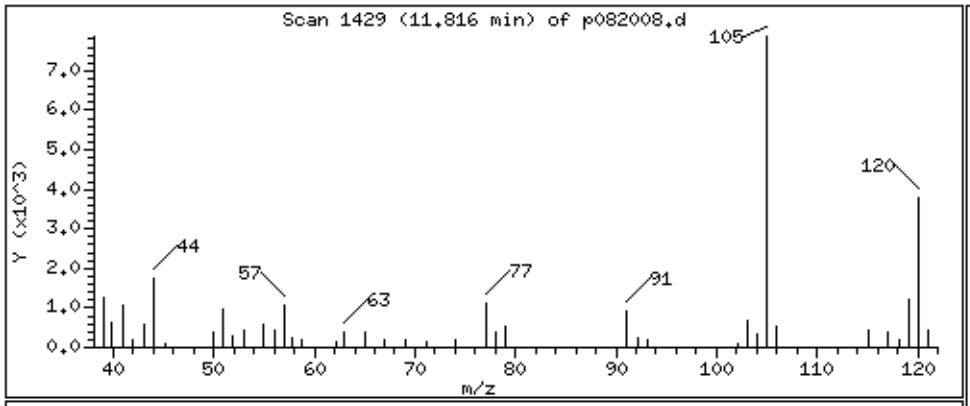
Operator: mjb

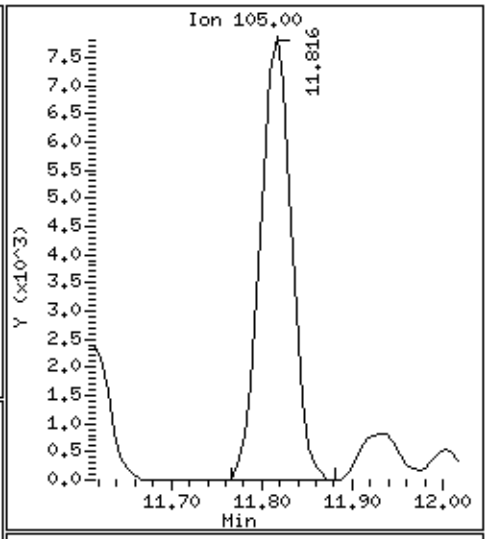
Column phase: RTX-624

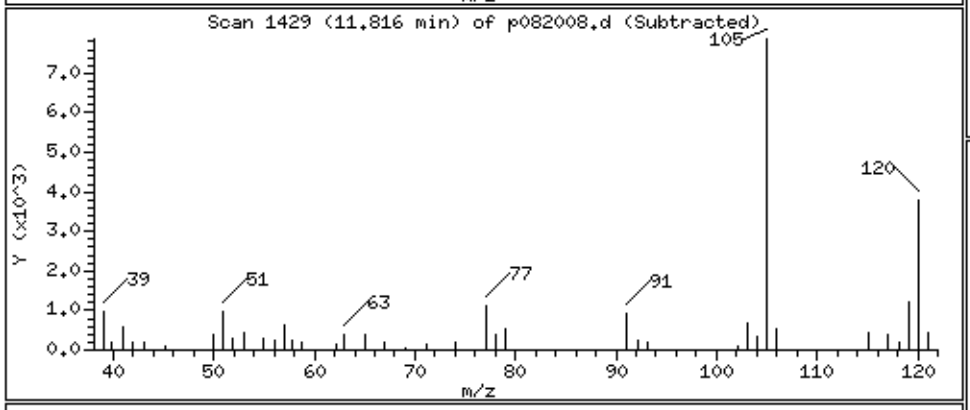
Column diameter: 0.25

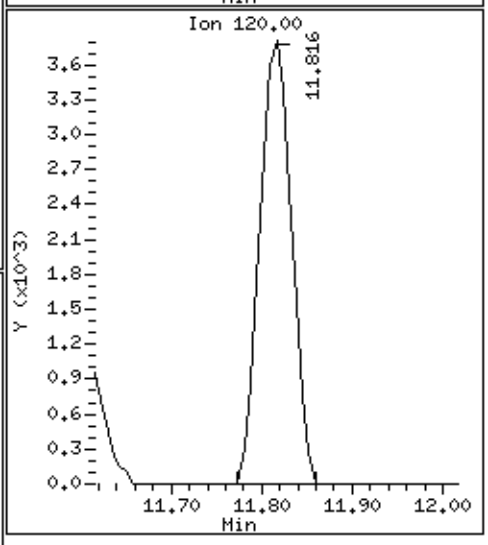
190 1,2,4-Trimethylbenzene

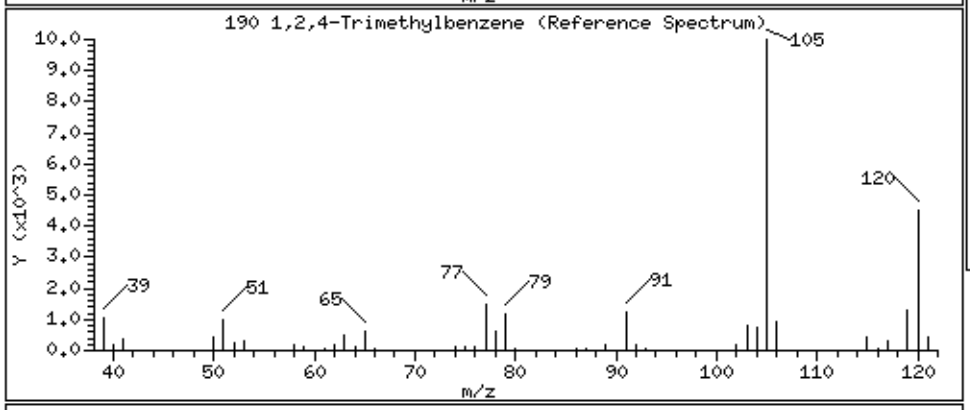
Concentration: 1.428 PPBV

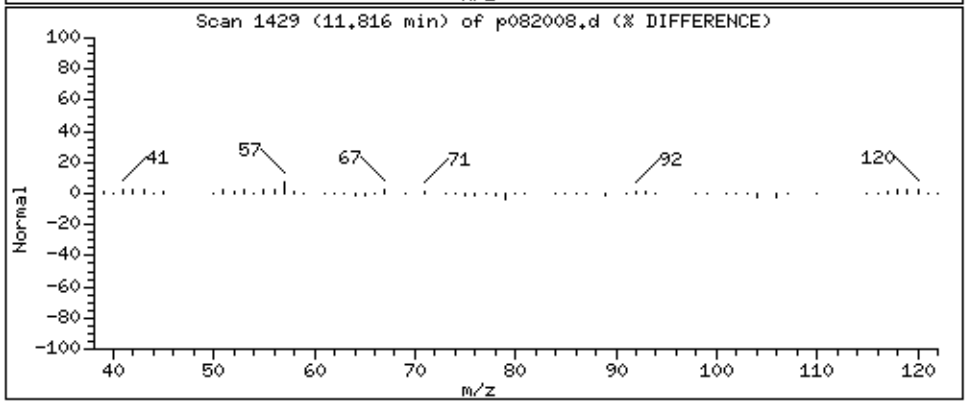












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Client Sample ID: SG-VW44A-03

Lab ID#: 2108390-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p082009**	**Date of Collection:**	**8/16/21 9:53:00 AM**
Dil. Factor:	**2.14**	**Date of Analysis:**	**8/20/21 04:27 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1,2-Tetrachloroethane	4.3	Not Detected	29	Not Detected
1,1,1-Trichloroethane	1.1	Not Detected	5.8	Not Detected
1,1,2,2-Tetrachloroethane	1.1	Not Detected	7.3	Not Detected
1,1,2-Trichloroethane	1.1	Not Detected	5.8	Not Detected
1,1-Dichloroethane	1.1	Not Detected	4.3	Not Detected
1,1-Dichloroethene	1.1	Not Detected	4.2	Not Detected
1,1-Difluoroethane	4.3	7.7	12	21
1,2,3-Trichloropropane	4.3	Not Detected	26	Not Detected
1,2,4-Trichlorobenzene	4.3	Not Detected	32	Not Detected
1,2,4-Trimethylbenzene	1.1	1.8	5.2	8.7
1,2-Dibromo-3-chloropropane	4.3	Not Detected	41	Not Detected
1,2-Dibromoethane (EDB)	1.1	Not Detected	8.2	Not Detected
1,2-Dichlorobenzene	1.1	Not Detected	6.4	Not Detected
1,2-Dichloroethane	1.1	Not Detected	4.3	Not Detected
1,2-Dichloropropane	1.1	Not Detected	4.9	Not Detected
1,3,5-Trimethylbenzene	1.1	Not Detected	5.3	Not Detected
1,3-Butadiene	1.1	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	1.1	Not Detected	6.4	Not Detected
1,4-Dichlorobenzene	1.1	Not Detected	6.4	Not Detected
1,4-Dioxane	4.3	Not Detected	15	Not Detected
2,2,4-Trimethylpentane	1.1	Not Detected	5.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.3	Not Detected	13	Not Detected
2-Hexanone	4.3	Not Detected	18	Not Detected
2-Propanol	4.3	Not Detected	10	Not Detected
3-Chloropropene	4.3	Not Detected	13	Not Detected
4-Ethyltoluene	1.1	1.2	5.3	5.7
4-Methyl-2-pentanone	1.1	1.8	4.4	7.2
Acetone	11	Not Detected	25	Not Detected
Acrolein	4.3	Not Detected	9.8	Not Detected
Acrylonitrile	4.3	Not Detected	9.3	Not Detected
alpha-Chlorotoluene	1.1	Not Detected	5.5	Not Detected
Benzene	1.1	Not Detected	3.4	Not Detected
Bromodichloromethane	1.1	Not Detected	7.2	Not Detected
Bromoform	1.1	Not Detected	11	Not Detected
Bromomethane	11	Not Detected	42	Not Detected
Carbon Disulfide	4.3	Not Detected	13	Not Detected
Carbon Tetrachloride	1.1	Not Detected	6.7	Not Detected
Chlorobenzene	1.1	Not Detected	4.9	Not Detected
Chloroethane	4.3	Not Detected	11	Not Detected
Chloroform	1.1	7.2	5.2	35
Chloromethane	11	Not Detected	22	Not Detected
cis-1,2-Dichloroethene	1.1	Not Detected	4.2	Not Detected

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Client Sample ID: SG-VW44A-03

Lab ID#: 2108390-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p082009**	**Date of Collection:**	**8/16/21 9:53:00 AM**
Dil. Factor:	**2.14**	**Date of Analysis:**	**8/20/21 04:27 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,3-Dichloropropene	1.1	Not Detected	4.8	Not Detected
Cumene	1.1	Not Detected	5.2	Not Detected
Cyclohexane	1.1	1.1	3.7	3.9
Dibromochloromethane	1.1	Not Detected	9.1	Not Detected
Dibromomethane	4.3	Not Detected	30	Not Detected
Ethanol	11	Not Detected	20	Not Detected
Ethyl Acetate	4.3	Not Detected	15	Not Detected
Ethyl Benzene	1.1	3.6	4.6	16
Ethyl-tert-butyl ether	4.3	Not Detected	18	Not Detected
Freon 11	1.1	Not Detected	6.0	Not Detected
Freon 12	1.1	Not Detected	5.3	Not Detected
Freon 113	1.1	Not Detected	8.2	Not Detected
Freon 114	1.1	Not Detected	7.5	Not Detected
Freon 134a	4.3	Not Detected	18	Not Detected
Heptane	1.1	Not Detected	4.4	Not Detected
Hexachlorobutadiene	4.3	Not Detected	46	Not Detected
Hexachloroethane	4.3	Not Detected	41	Not Detected
Hexane	1.1	250	3.8	890
Iodomethane	11	Not Detected	62	Not Detected
Isopropyl ether	4.3	Not Detected	18	Not Detected
m,p-Xylene	1.1	13	4.6	56
Methyl tert-butyl ether	4.3	Not Detected	15	Not Detected
Methylene Chloride	11	Not Detected	37	Not Detected
Naphthalene	2.1	Not Detected	11	Not Detected
o-Xylene	1.1	4.7	4.6	20
Propylbenzene	1.1	Not Detected	5.3	Not Detected
Propylene	4.3	Not Detected	7.4	Not Detected
Styrene	1.1	Not Detected	4.6	Not Detected
tert-Amyl methyl ether	4.3	Not Detected	18	Not Detected
tert-Butyl alcohol	4.3	Not Detected	13	Not Detected
Tetrachloroethene	1.1	1.6	7.2	11
Tetrahydrofuran	1.1	Not Detected	3.2	Not Detected
Toluene	1.1	1.8	4.0	6.7
TPH ref. to Gasoline (MW=100)	110	460	440	1900
trans-1,2-Dichloroethene	1.1	Not Detected	4.2	Not Detected
trans-1,3-Dichloropropene	1.1	Not Detected	4.8	Not Detected
Trichloroethene	1.1	Not Detected	5.8	Not Detected
Vinyl Acetate	4.3	Not Detected	15	Not Detected
Vinyl Bromide	4.3	Not Detected	19	Not Detected
Vinyl Chloride	1.1	Not Detected	2.7	Not Detected

Container Type: 1 Liter Summa Canister

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Client Sample ID: SG-VW44A-03

Lab ID#: 2108390-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p082009**	**Date of Collection:**	**8/16/21 9:53:00 AM**
Dil. Factor:	**2.14**	**Date of Analysis:**	**8/20/21 04:27 PM**

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	110	70-130
4-Bromofluorobenzene	104	70-130

US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/20AUG21.b/p082009.d
Lab Smp Id: 2108390-02A
Inj Date : 20-AUG-2021 16:27
Operator : mjb Inst ID: msdp.i
Smp Info : 200ml 1040
Misc Info : 6.5 Hg->10 psi
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/20AUG21.b/p21q0519a.m
Meth Date : 20-Aug-2021 12:59 p5fl Quant Type: ISTD
Cal Date : 19-MAY-2021 19:45 Cal File: p051915.d
Als bottle: 2
Dil Factor: 2.14000
Integrator: HP RTE Compound Sublist: AEC25677.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE		(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 90 Bromochloromethane						CAS #: 74-97-5		
5.785	5.785 (1.000)	130	112788	25.0000			80.00- 120.00	100.00
5.785	5.785 (1.000)	128	86922				48.23- 108.23	77.07
5.785	5.778 (1.000)	49	252357				150.57- 210.57	223.74
* 108 1,4-Difluorobenzene						CAS #: 540-36-3		
6.666	6.659 (1.000)	114	412871	25.0000			80.00- 120.00	100.00
6.659	6.659 (1.000)	88	60021				0.00- 45.71	14.54
* 153 Chlorobenzene-d5						CAS #: 3114-55-4		
9.460	9.460 (1.000)	117	418553	25.0000			80.00- 120.00	100.00
9.460	9.460 (1.000)	82	214308				23.78- 83.78	51.20
$ 104 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
6.315	6.315 (1.092)	65	170609	27.4094	27.409		80.00- 120.00	100.00
6.315	6.315 (1.092)	67	80156				27.21- 87.21	46.98
$ 134 Toluene-d8						CAS #: 2037-26-5		
7.891	7.891 (1.184)	98	446438	24.9010	24.901		80.00- 120.00	100.00
7.891	7.891 (1.184)	70	47408				0.00- 40.44	10.62

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 134 Toluene-d8 (continued)							
7.891	7.891 (1.184)	100	292288			34.95- 94.95	65.47
$ 170 4-Bromofluorobenzene					CAS #: 460-00-4		
10.921	10.921 (1.154)	174	280544	26.1021	26.102	80.00- 120.00	100.00
10.921	10.914 (1.154)	95	328809			95.92- 155.92	117.20
10.921	10.921 (1.154)	176	266088			66.89- 126.89	94.85
7 1,1-Difluoroethane					CAS #: 75-37-6		
1.716	1.703 (0.297)	65	9237	3.61307	7.732	80.00- 120.00	100.00
1.772	1.759 (0.306)	51	3750616			597.63- 657.63	40604.19
1.758	1.717 (0.304)	47	80295			33.72- 93.72	869.28
67 Hexane					CAS #: 110-54-3		
4.696	4.697 (0.812)	57	1313914	118.254	253.06	80.00- 120.00	100.00
4.696	4.697 (0.812)	43	1019144			37.52- 97.52	77.57
4.696	4.697 (0.812)	86	129670			0.00- 41.48	9.87
92 Chloroform					CAS #: 67-66-3		
5.842	5.843 (1.010)	83	33115	3.37446	7.221	80.00- 120.00	100.00
5.842	5.843 (1.010)	85	21748			34.70- 94.70	65.68
94 Cyclohexane					CAS #: 110-82-7		
5.957	5.957 (1.030)	84	3796	0.53504	1.145	80.00- 120.00	100.00
5.957	5.957 (1.030)	56	9708			142.57- 202.57	255.70
5.964	5.957 (1.031)	41	6365			62.09- 122.09	167.66
131 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.798	7.798 (1.170)	58	5808	0.81882	1.752	80.00- 120.00	100.00
7.798	7.798 (1.170)	43	19719			242.35- 302.35	339.49
7.805	7.798 (1.171)	85	1518			3.24- 63.24	26.15
137 Toluene					CAS #: 108-88-3		
7.955	7.956 (1.193)	91	15674	0.83384	1.784	80.00- 120.00	100.00
7.955	7.956 (1.193)	92	8979			28.38- 88.38	57.29
142 Tetrachloroethene					CAS #: 127-18-4		
8.464	8.464 (0.895)	166	7293	0.76453	1.636	80.00- 120.00	100.00
8.464	8.464 (0.895)	129	6335			47.84- 107.84	86.86
8.464	8.464 (0.895)	131	5687			45.29- 105.29	77.98
155 Ethyl Benzene					CAS #: 100-41-4		
9.567	9.567 (1.011)	106	14720	1.69377	3.625	80.00- 120.00	100.00
9.567	9.567 (1.011)	91	42313			273.74- 333.74	287.45
158 m,p-Xylene					CAS #: 108-38-3		
9.718	9.718 (1.027)	106	65981	6.06190	12.972	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
158 m,p-Xylene (continued)							
9.718	9.718 (1.027)	91	127900			163.73- 223.73	193.84
164 o-Xylene					CAS #: 95-47-6		
10.226	10.226 (1.081)	106	23098	2.21486	4.740	80.00- 120.00	100.00
10.226	10.226 (1.081)	91	48272			177.45- 237.45	208.98
183 4-Ethyltoluene					CAS #: 622-96-8		
11.250	11.287 (1.189)	120	5714	0.54091	1.158	80.00- 120.00	100.00
11.258	11.287 (1.190)	105	16622			284.55- 344.55	290.86
190 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
11.816	11.817 (1.249)	105	22793	0.83029	1.777	80.00- 120.00	100.00
11.816	11.817 (1.249)	120	11616			19.05- 79.05	50.96

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p082009.d
Lab Smp Id: 2108390-02A
Analysis Type: VOA
Quant Type: ISTD
Operator: mjb
Method File: /chem/msdp.i/20AUG21.b/p21q0519a.m
Misc Info: 6.5 Hg->10 psi

Calibration Date: 20-AUG-2021
Calibration Time: 11:13
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	109375	65625	153125	112788	3.12
108 1,4-Difluorobenze	406799	244079	569519	412871	1.49
153 Chlorobenzene-d5	400841	240505	561177	418553	4.42

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.79	5.46	6.12	5.79	-0.00
108 1,4-Difluorobenze	6.66	6.33	6.99	6.67	0.10
153 Chlorobenzene-d5	9.46	9.13	9.79	9.46	-0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 24-Aug-2021 10:29

US32TAR1

RECOVERY REPORT

Client Name: Client SDG: 20AUG21
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 2108390-02A
Level: LOW Operator: mjb
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT20_new.spk Quant Type: ISTD
Sublist File: AEC25677.sub
Method File: /chem/msdp.i/20AUG21.b/p21q0519a.m
Misc Info: 6.5 Hg->10 psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 104 1,2-Dichloroethan	25.000	27.409	109.64	70-130
$ 134 Toluene-d8	25.000	24.901	99.60	70-130
$ 170 4-Bromofluorobenz	25.000	26.102	104.41	70-130

Data File: /chem/msdp.i/20AUG21.b/p082009.d

Date : 20-AUG-2021 16:27

Client ID:

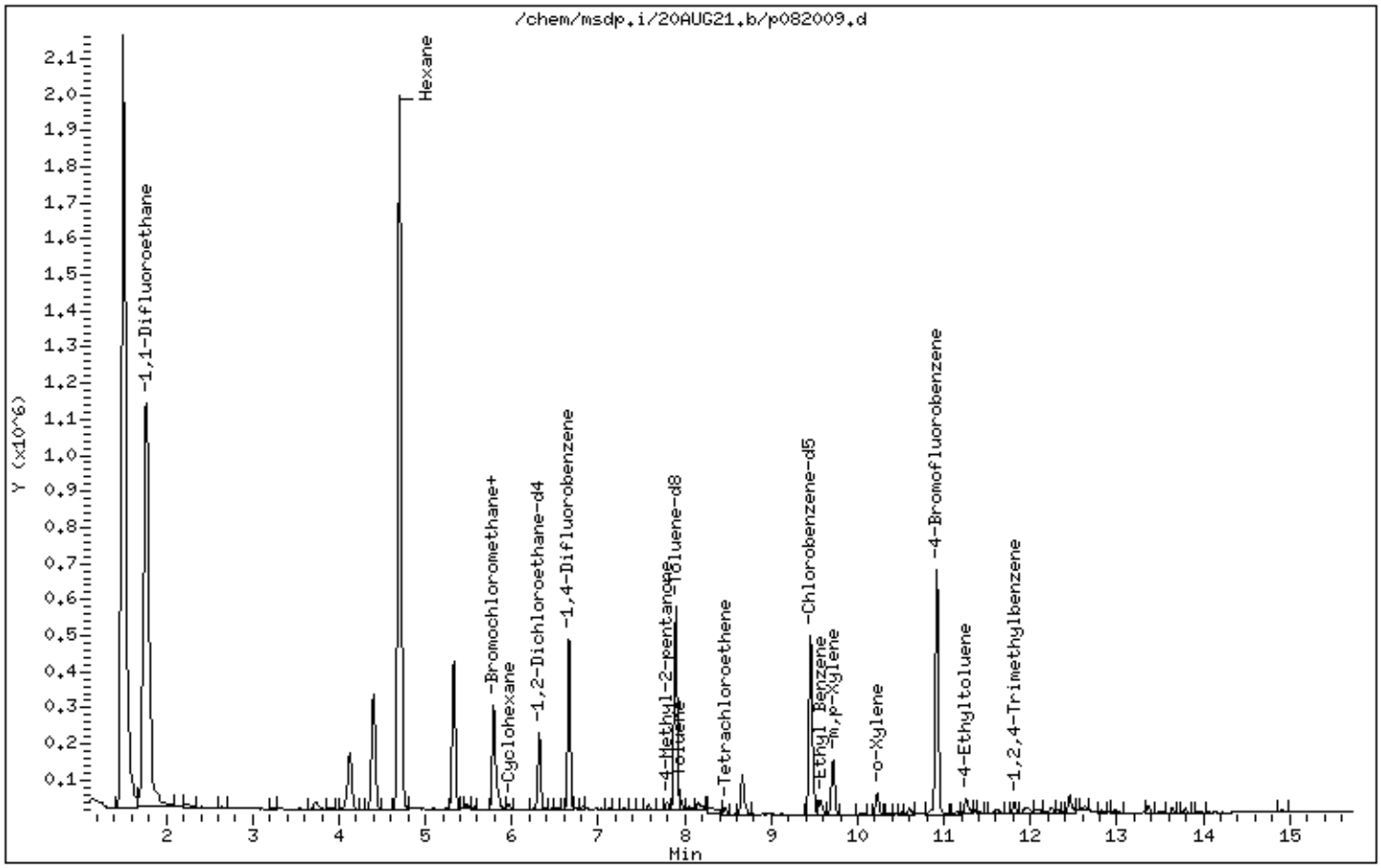
Instrument: msdp.i

Sample Info: 200ml 1040

Operator: mjb

Column phase: RTX-624

Column diameter: 0.25



Data File: /chem/msdp.i/20AUG21.b/p082009.d

Date : 20-AUG-2021 16:27

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1040

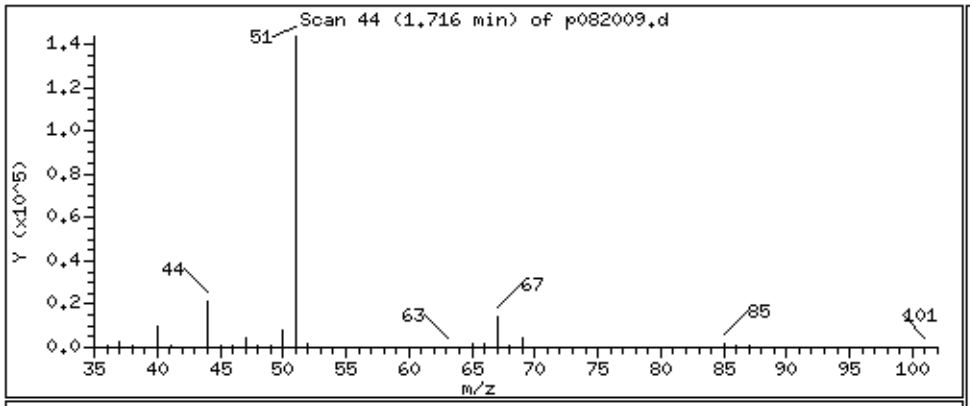
Operator: mjb

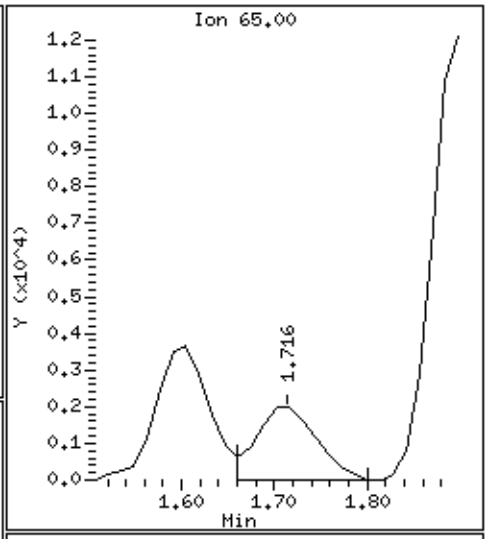
Column phase: RTX-624

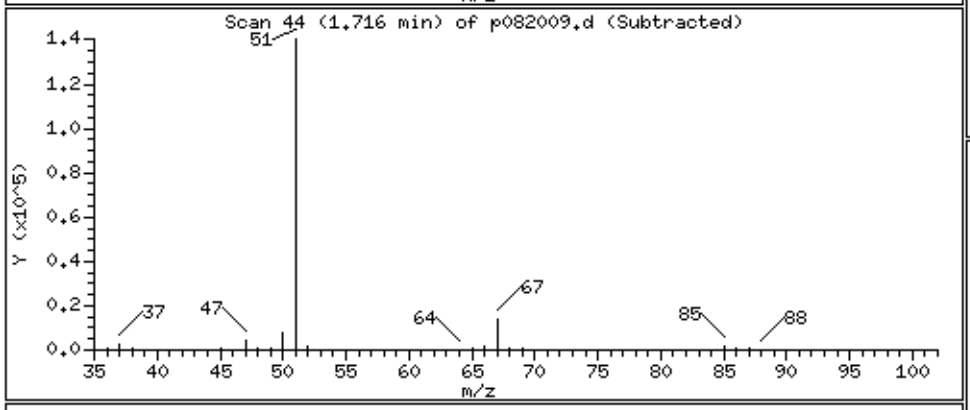
Column diameter: 0.25

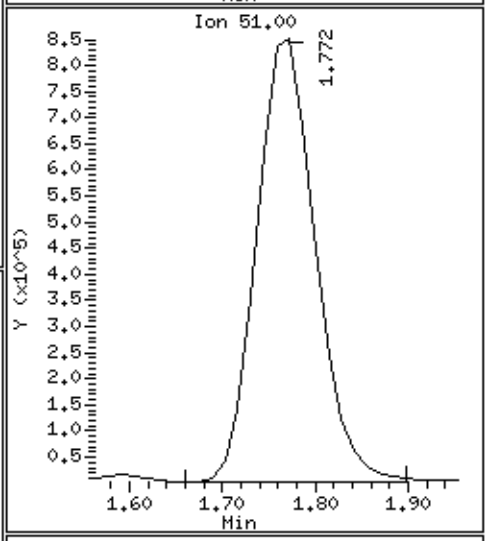
7 1,1-Difluoroethane

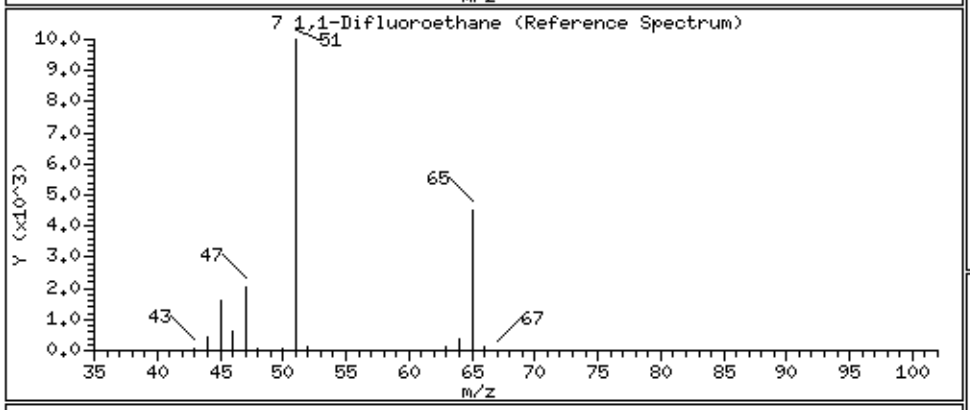
Concentration: 7.732 PPBV

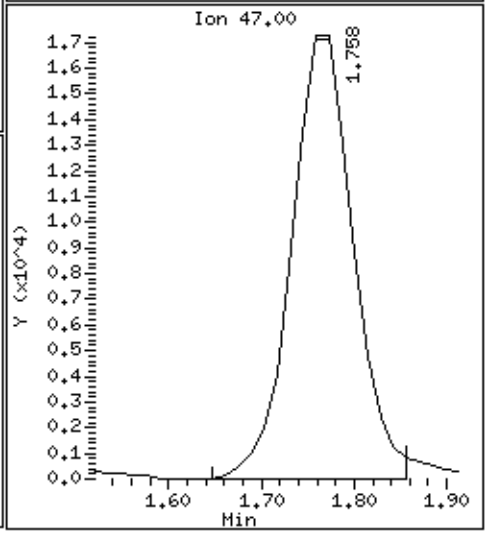


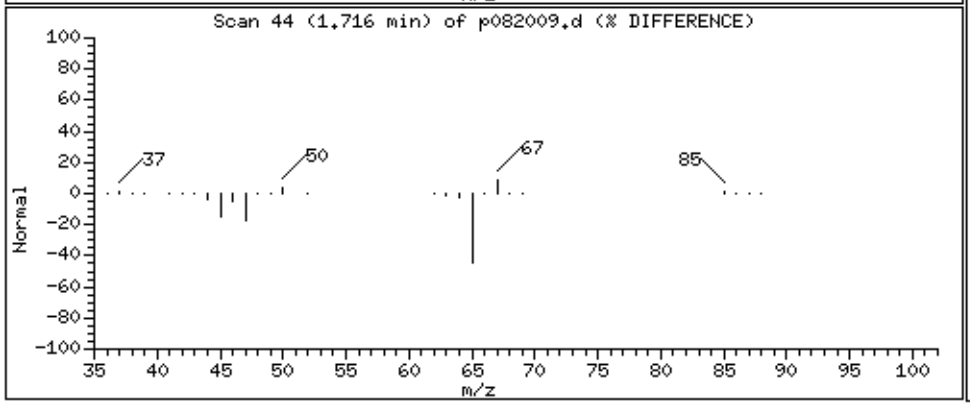












Data File: /chem/msdp.i/20AUG21.b/p082009.d

Date : 20-AUG-2021 16:27

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1040

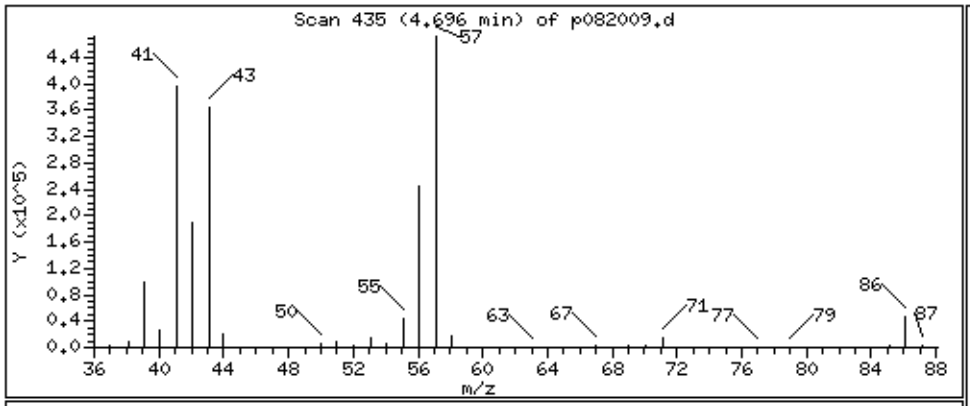
Operator: mjb

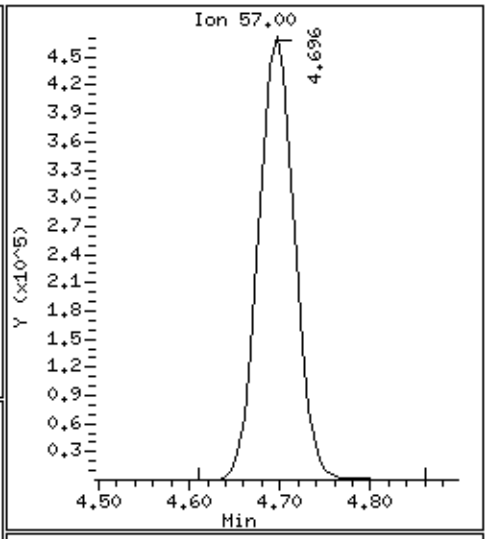
Column phase: RTX-624

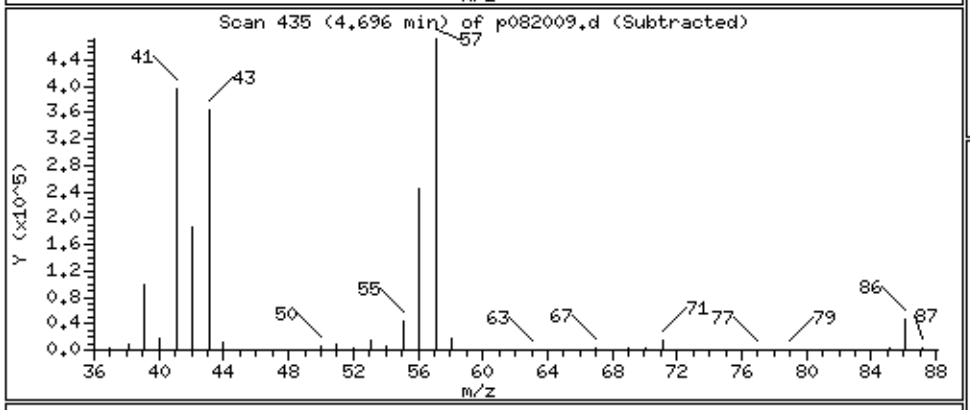
Column diameter: 0.25

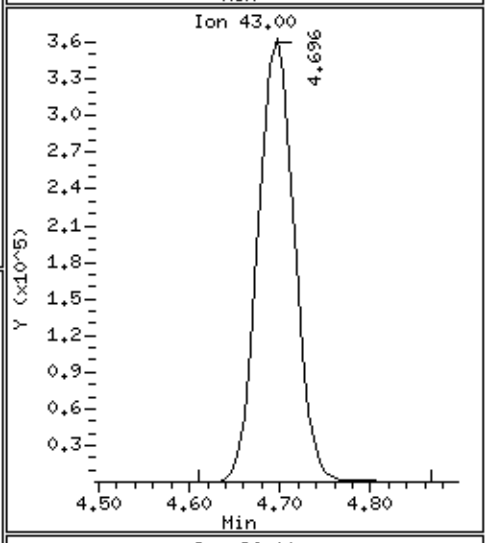
67 Hexane

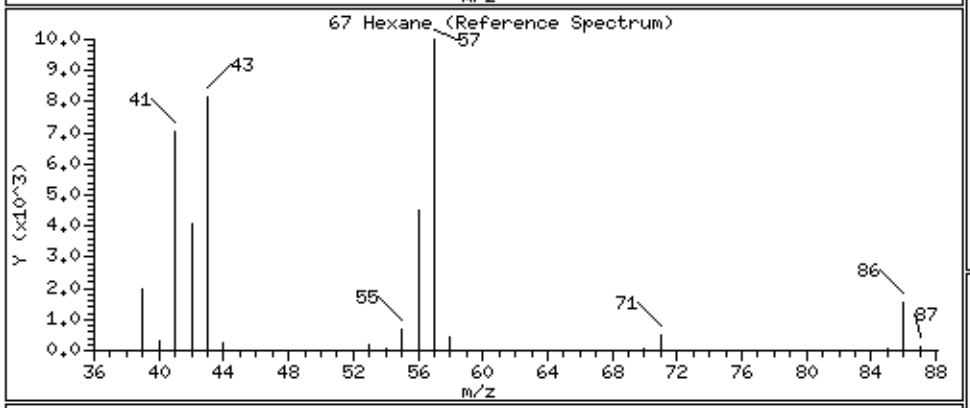
Concentration: 253.06 PPBV

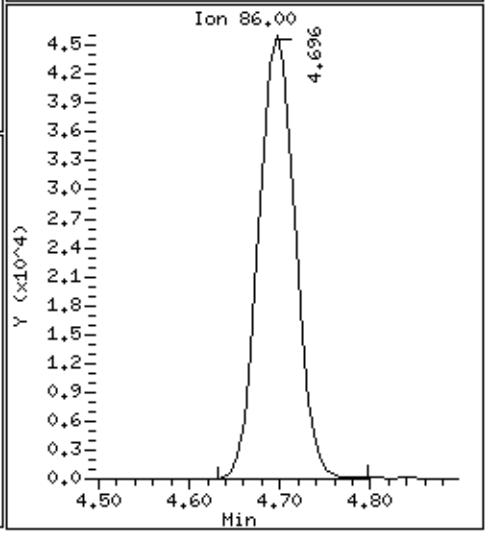


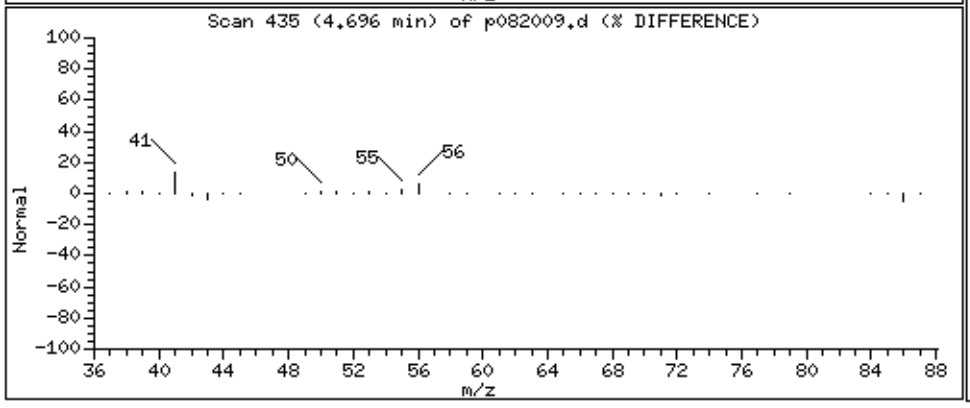












Data File: /chem/msdp.i/20AUG21.b/p082009.d

Date : 20-AUG-2021 16:27

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1040

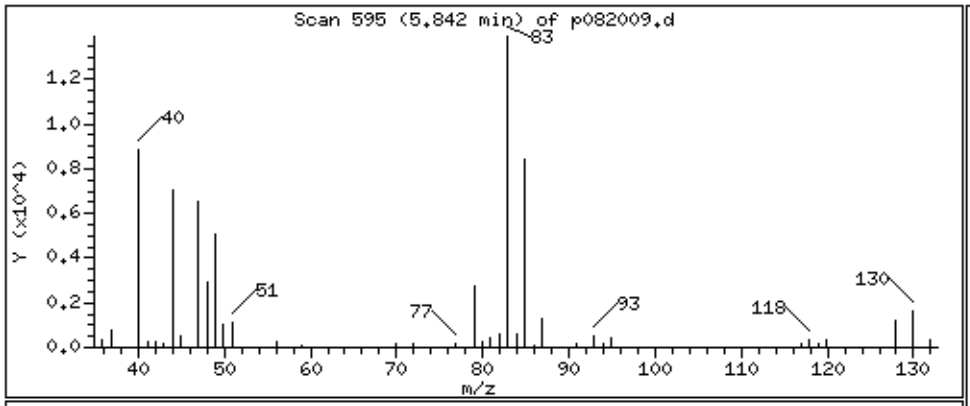
Operator: mjb

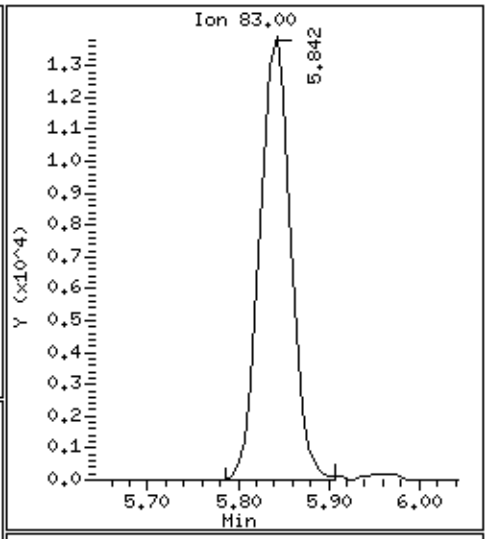
Column phase: RTX-624

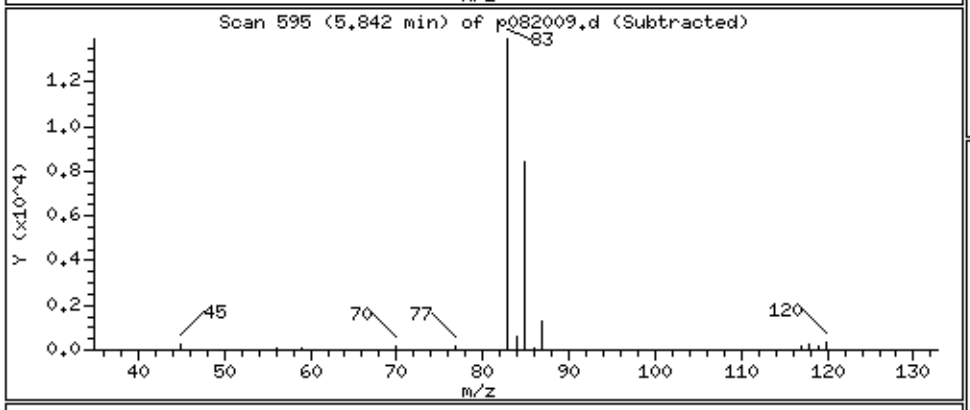
Column diameter: 0.25

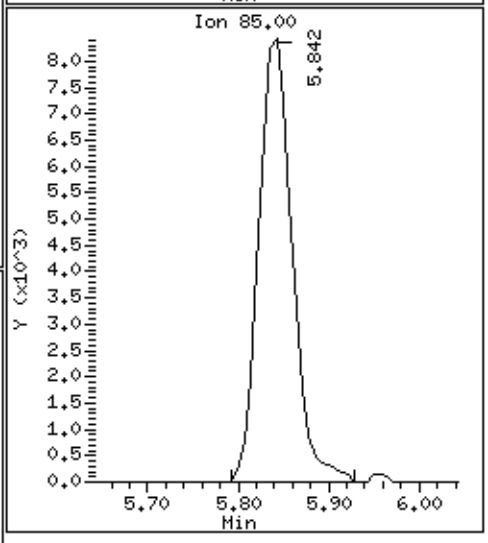
92 Chloroform

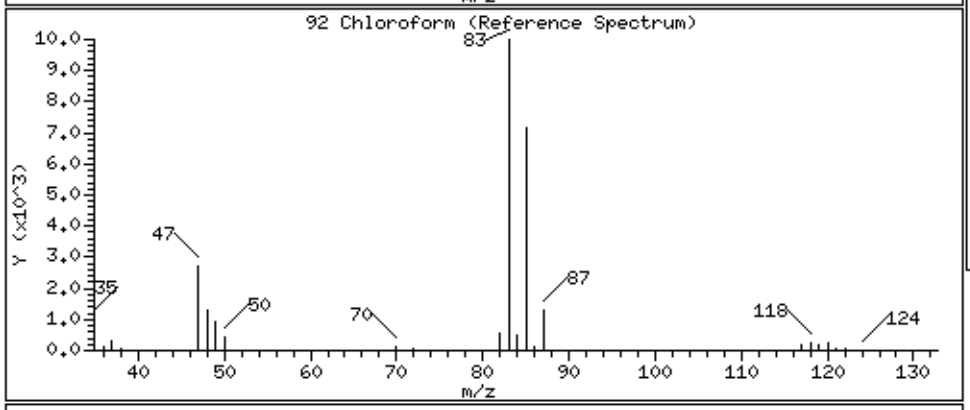
Concentration: 7.221 PPBV

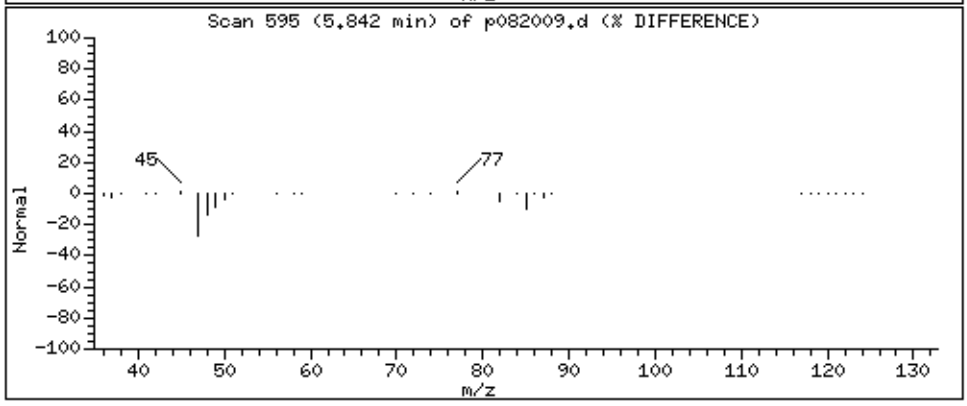












Data File: /chem/msdp.i/20AUG21.b/p082009.d

Page 5

Date : 20-AUG-2021 16:27

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1040

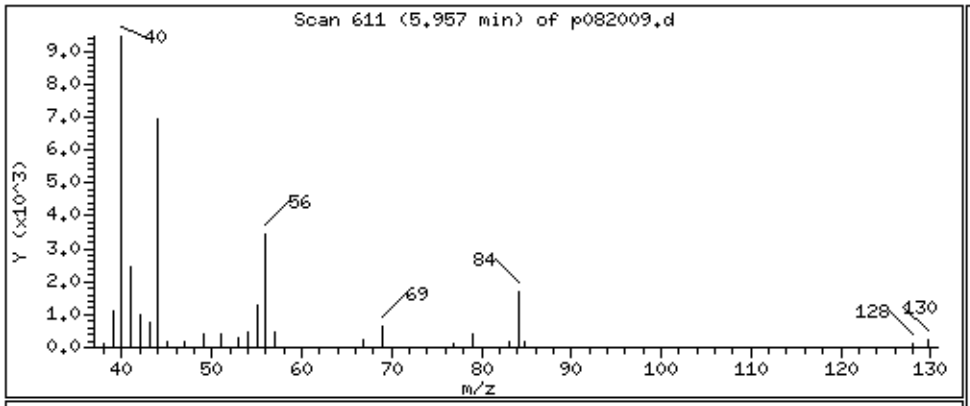
Operator: mjb

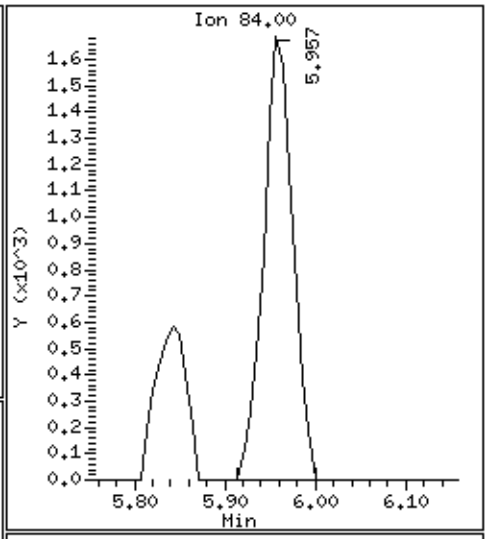
Column phase: RTX-624

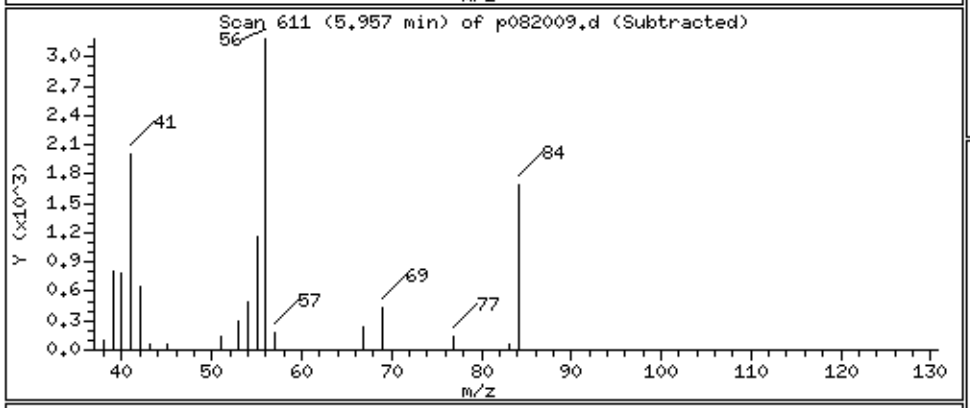
Column diameter: 0.25

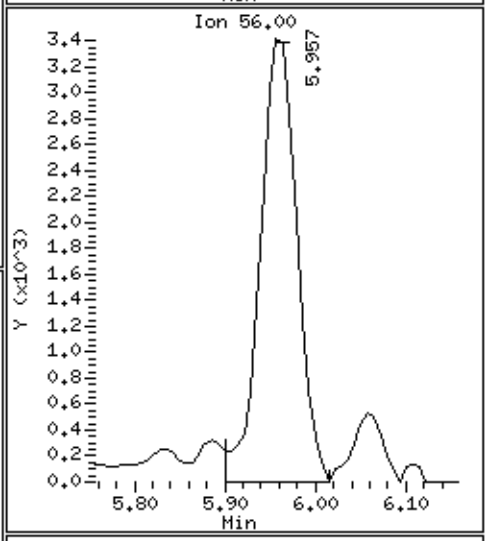
94 Cyclohexane

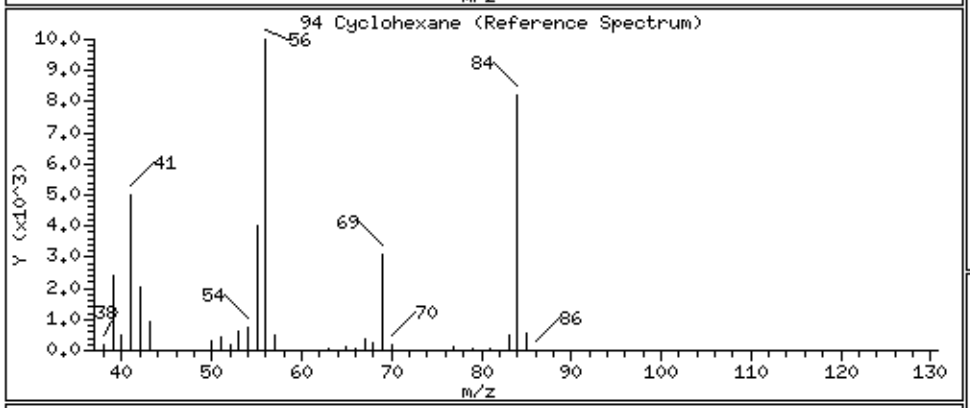
Concentration: 1.145 PPBV

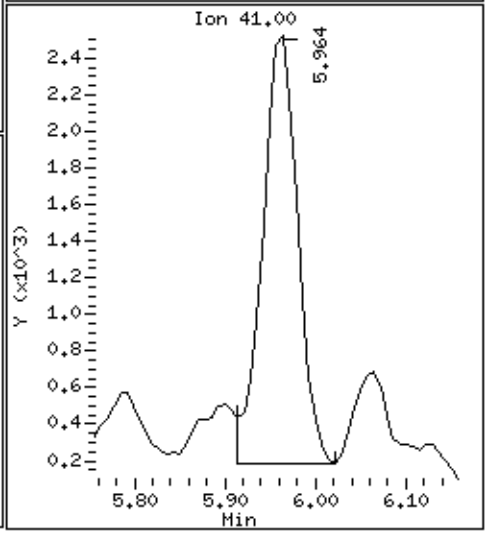


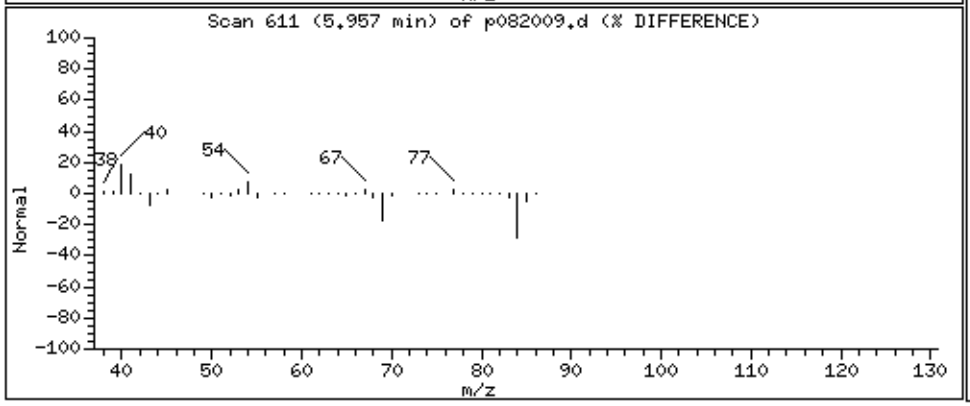












Data File: /chem/msdp.i/20AUG21.b/p082009.d

Date : 20-AUG-2021 16:27

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1040

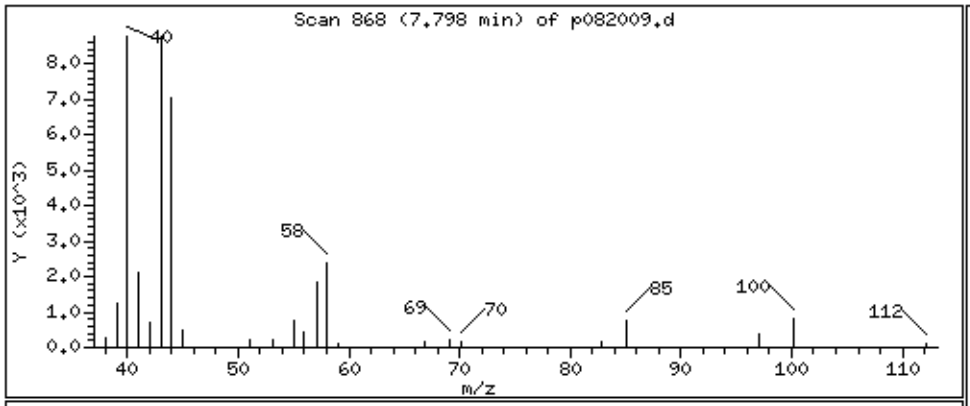
Operator: mjb

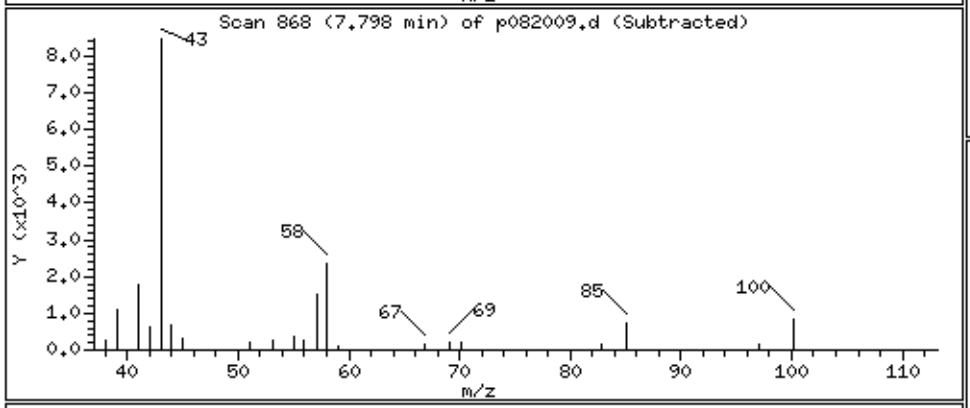
Column phase: RTX-624

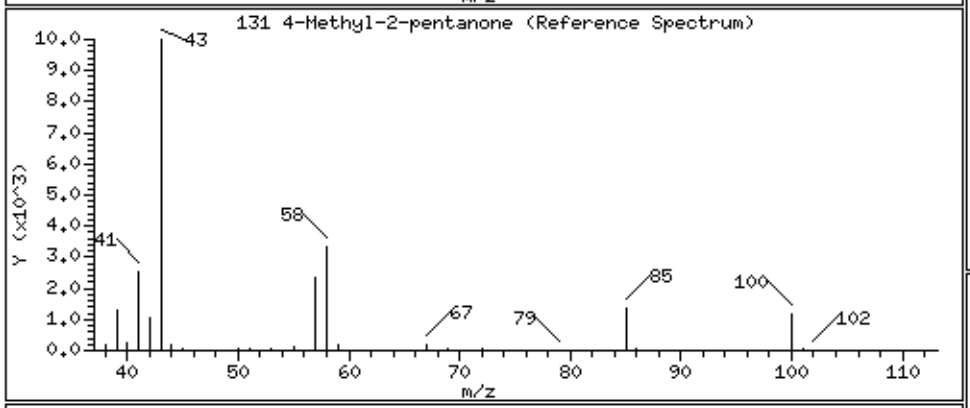
Column diameter: 0.25

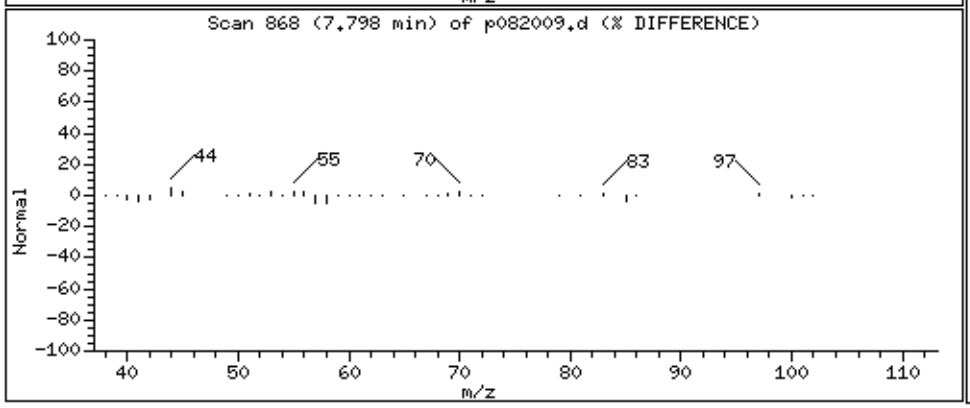
131 4-Methyl-2-pentanone

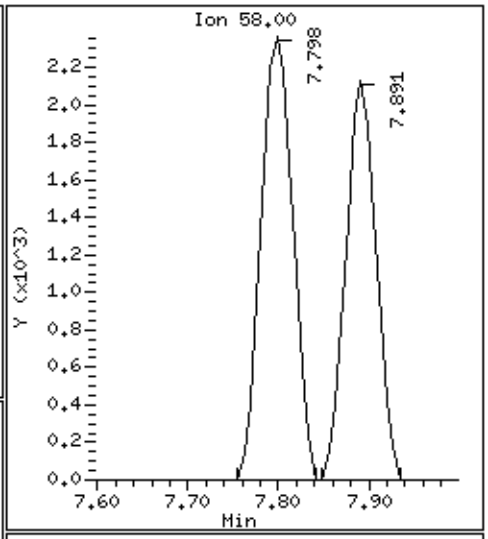
Concentration: 1.752 PPBV

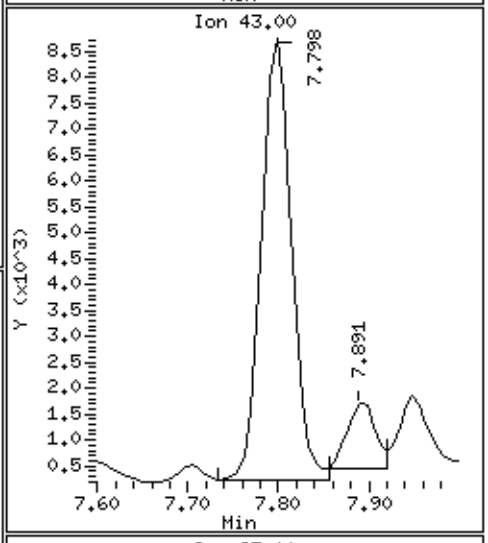


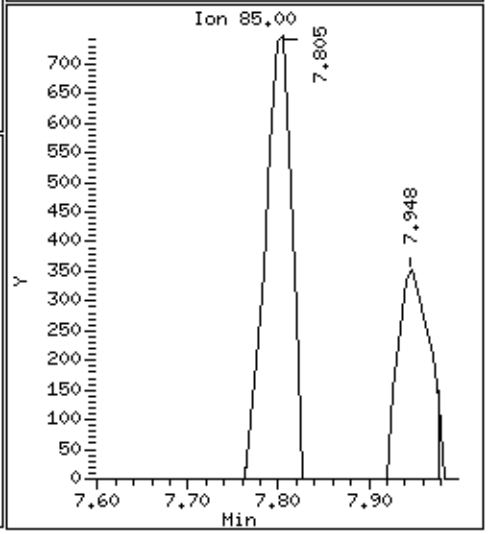












Data File: /chem/msdp.i/20AUG21.b/p082009.d

Date : 20-AUG-2021 16:27

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1040

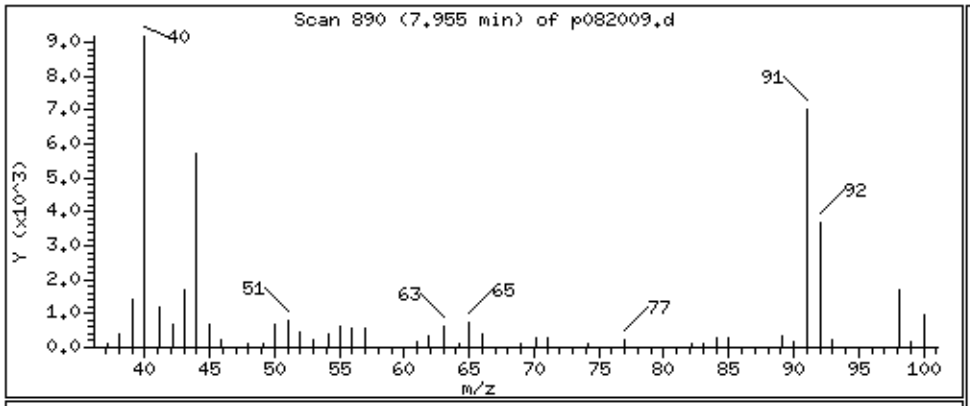
Operator: mjb

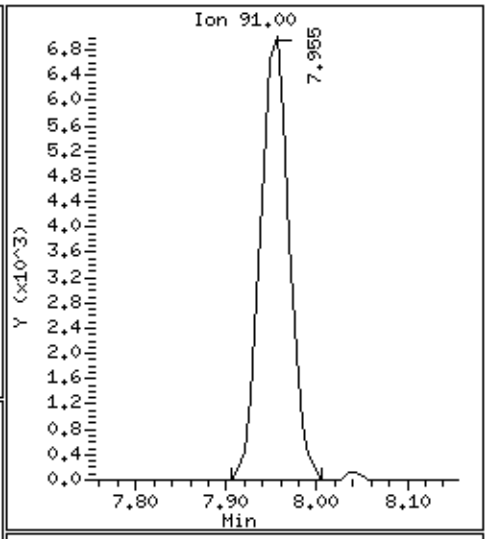
Column phase: RTX-624

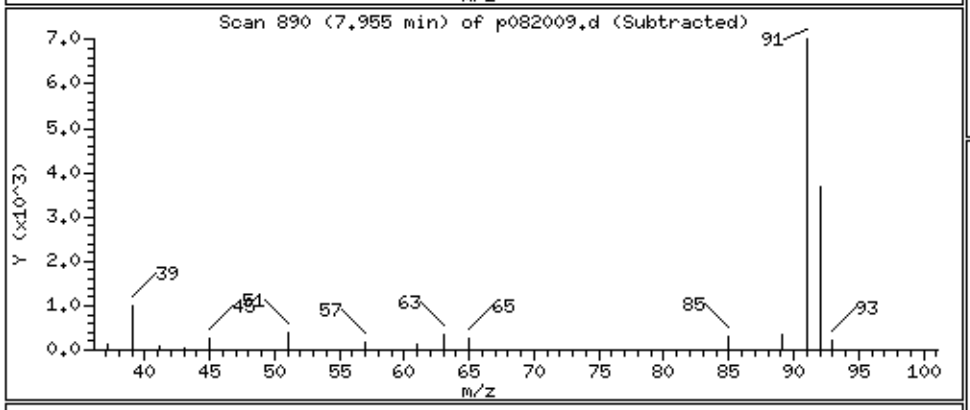
Column diameter: 0.25

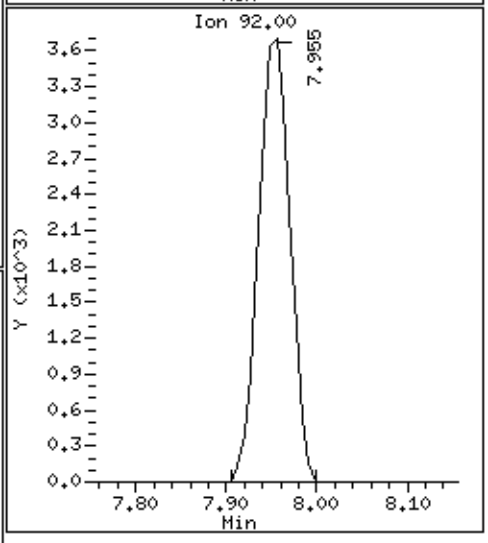
137 Toluene

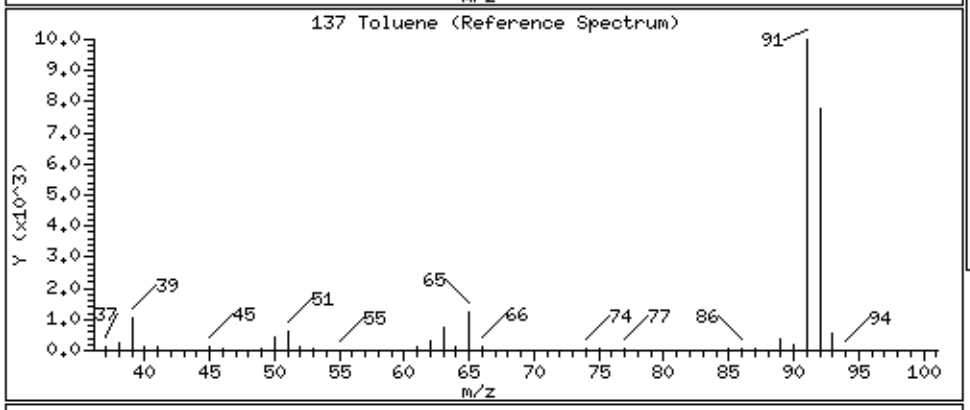
Concentration: 1.784 PPBV

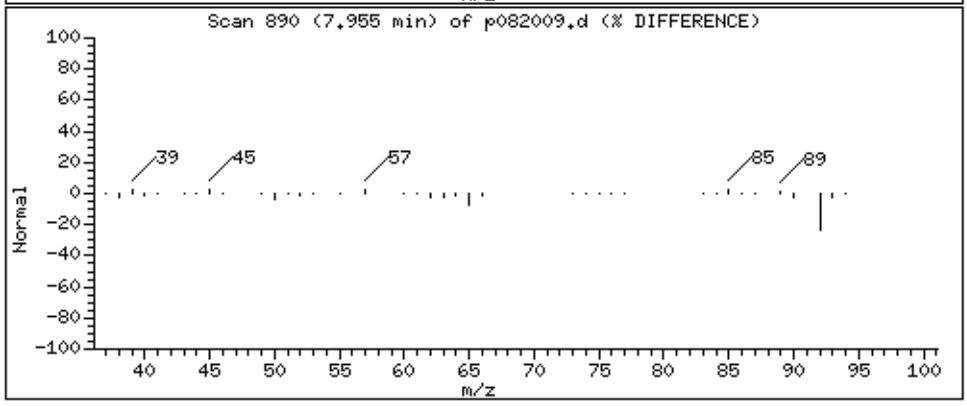












Data File: /chem/msdp.i/20AUG21.b/p082009.d

Date : 20-AUG-2021 16:27

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1040

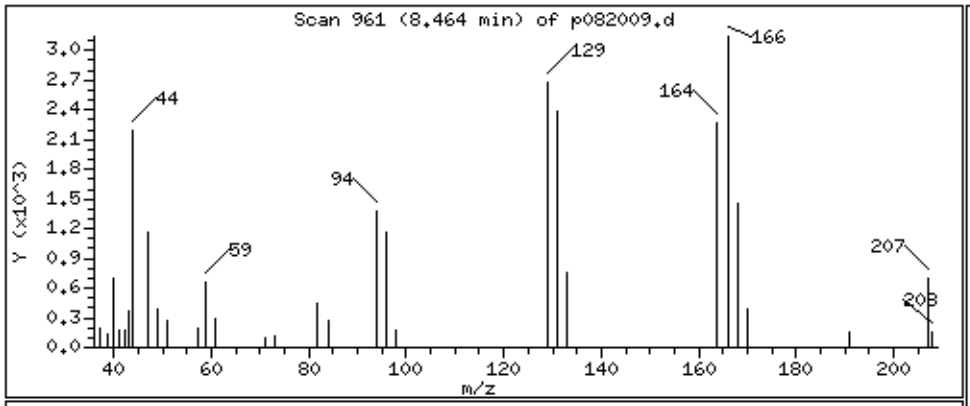
Operator: mjb

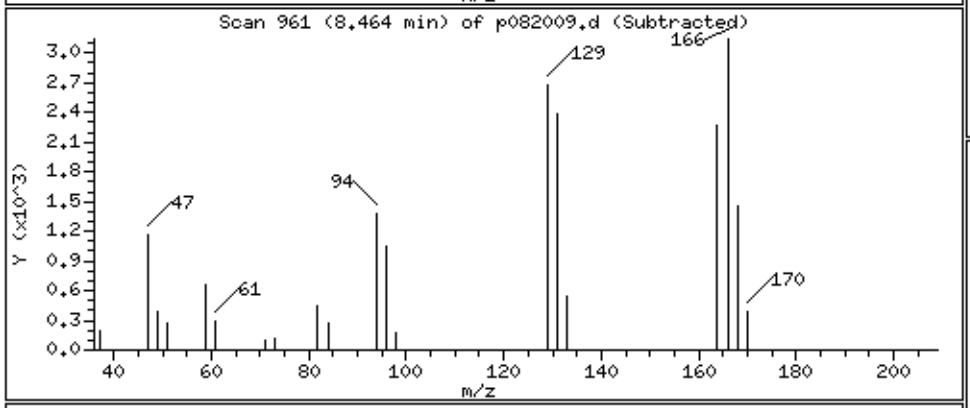
Column phase: RTX-624

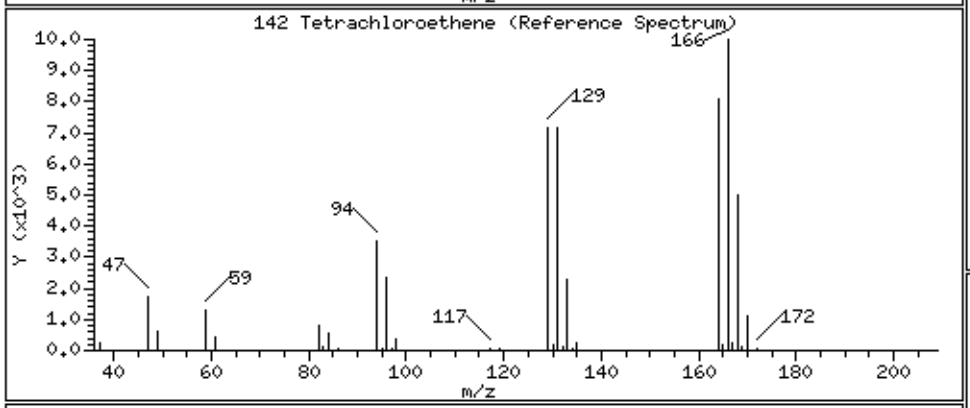
Column diameter: 0.25

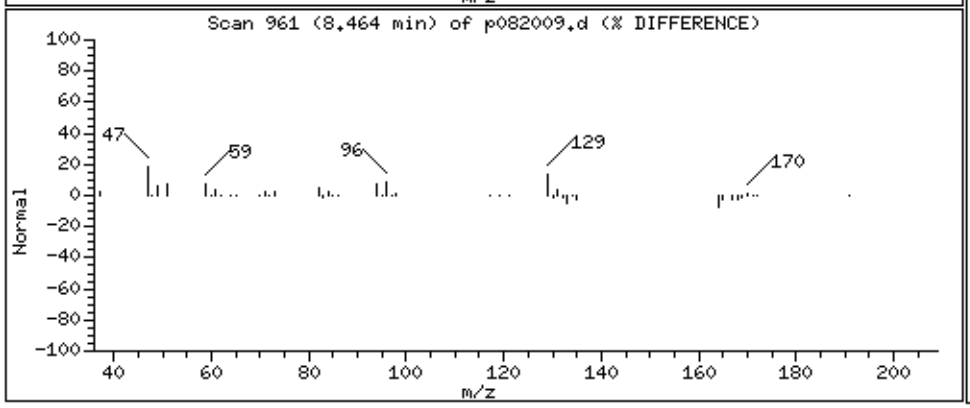
142 Tetrachloroethene

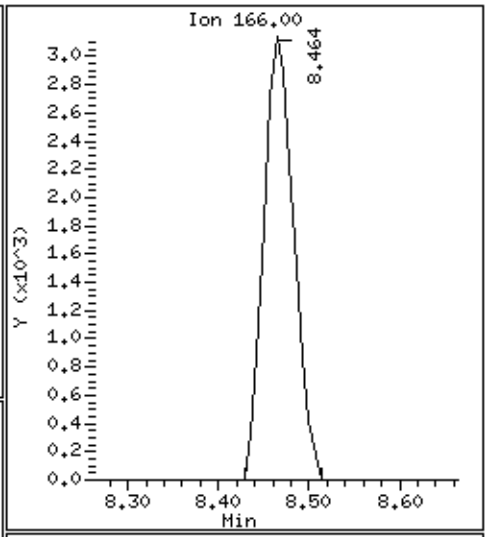
Concentration: 1.636 PPBV

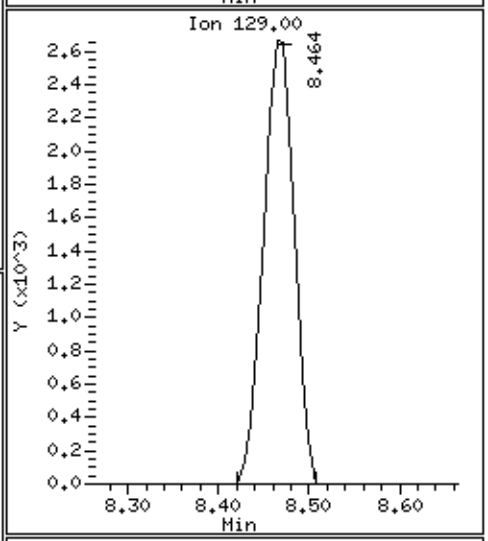


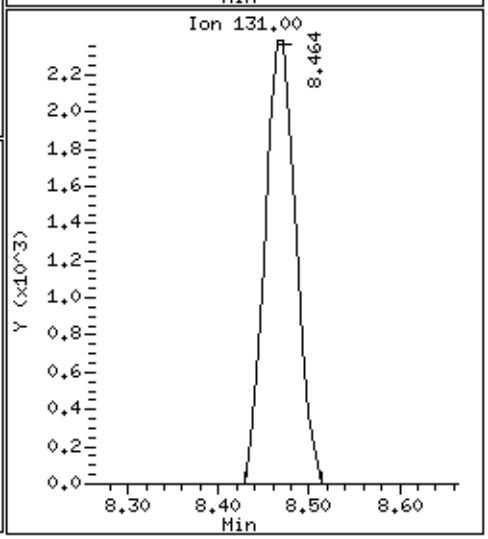












Data File: /chem/msdp.i/20AUG21.b/p082009.d

Date : 20-AUG-2021 16:27

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1040

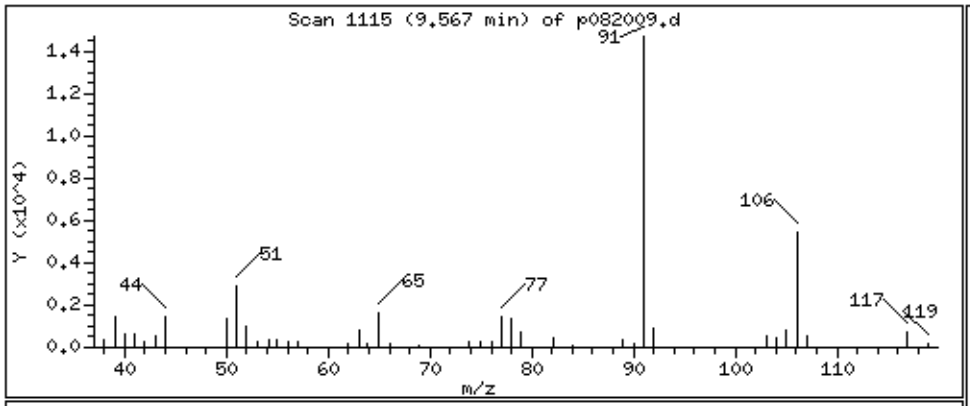
Operator: mjb

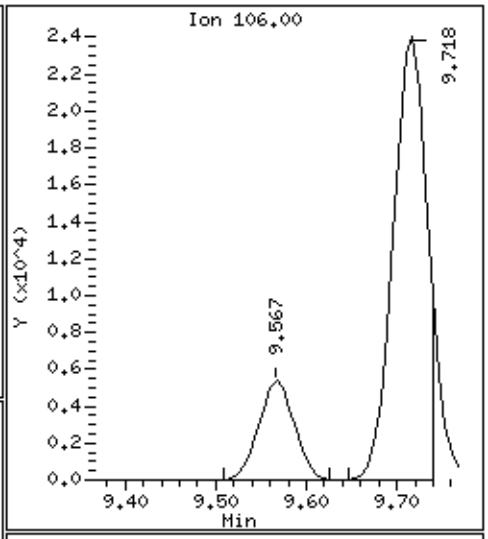
Column phase: RTX-624

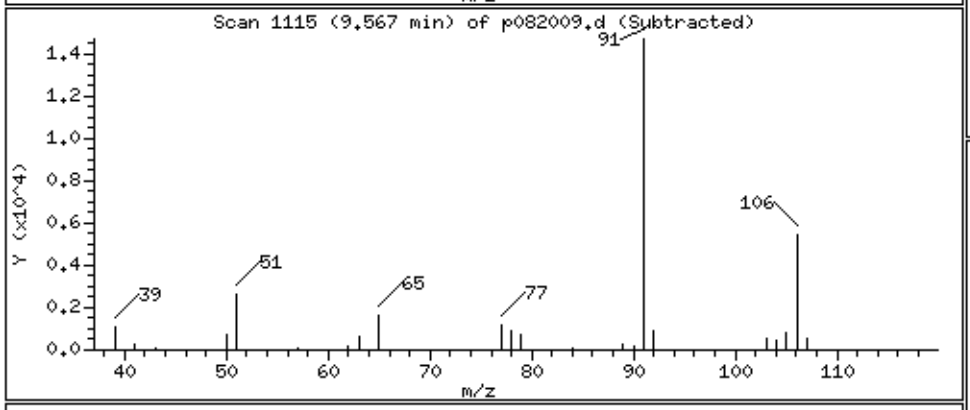
Column diameter: 0.25

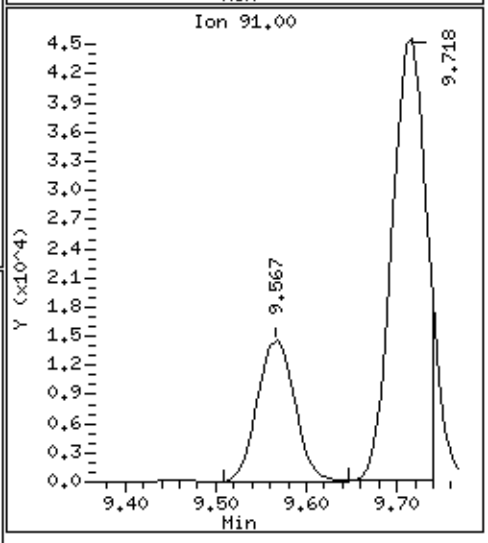
155 Ethyl Benzene

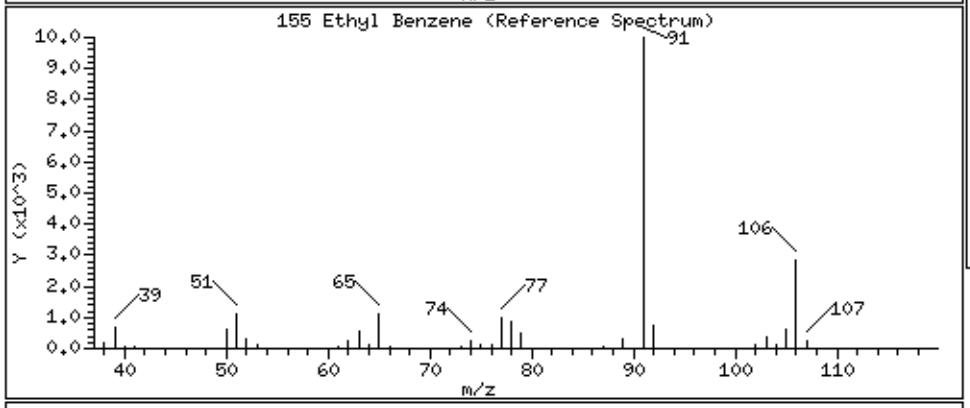
Concentration: 3.625 PPBV

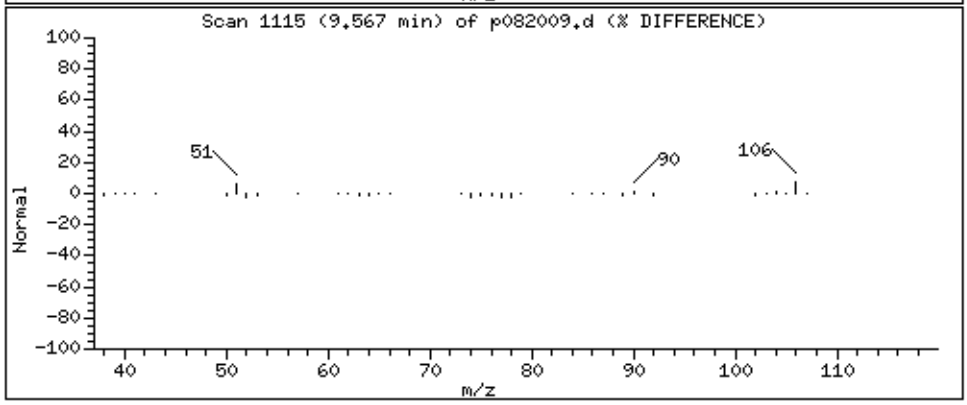












Data File: /chem/msdp.i/20AUG21.b/p082009.d

Date : 20-AUG-2021 16:27

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1040

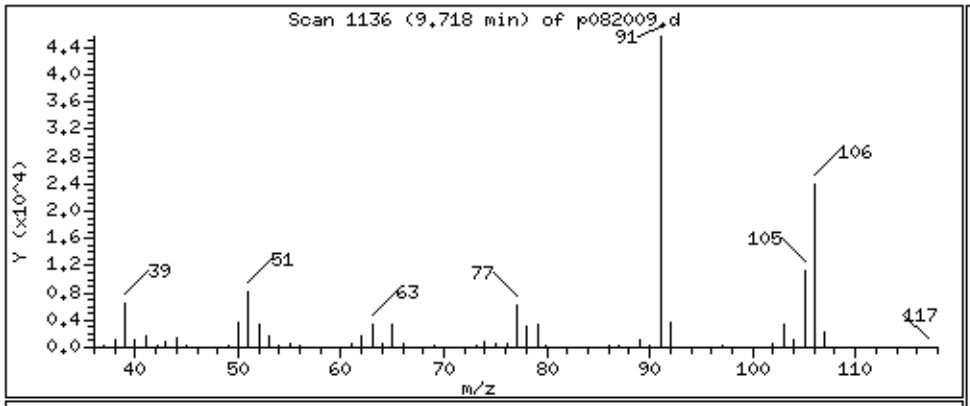
Operator: mjb

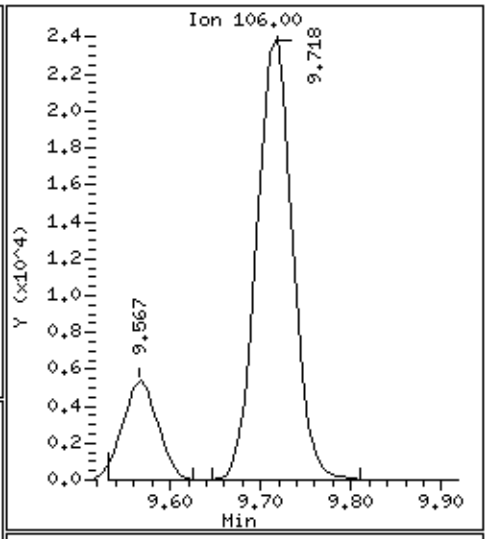
Column phase: RTX-624

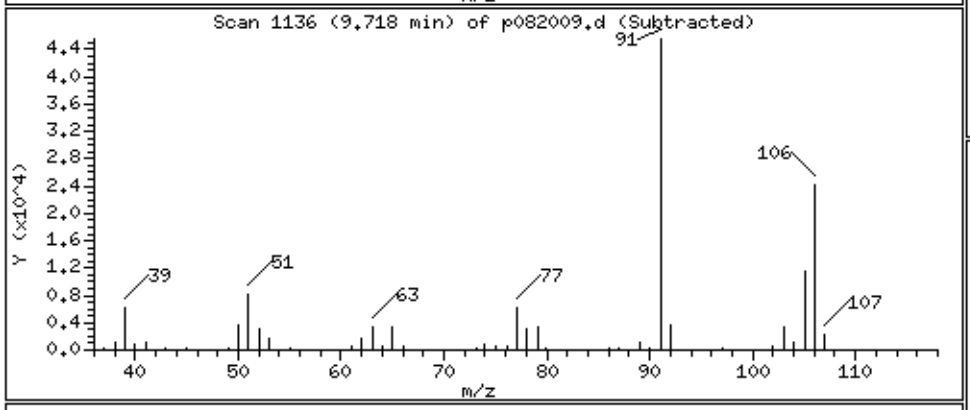
Column diameter: 0.25

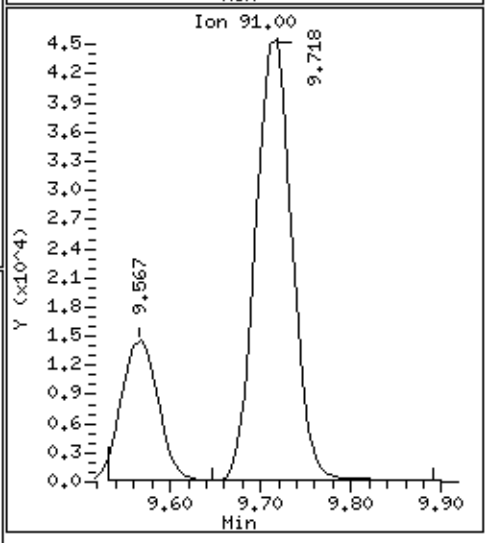
158 m,p-Xylene

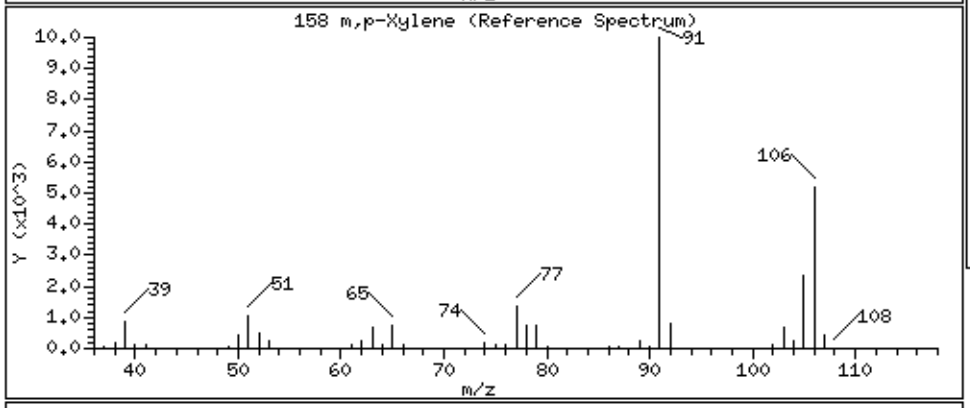
Concentration: 12.972 PPBV

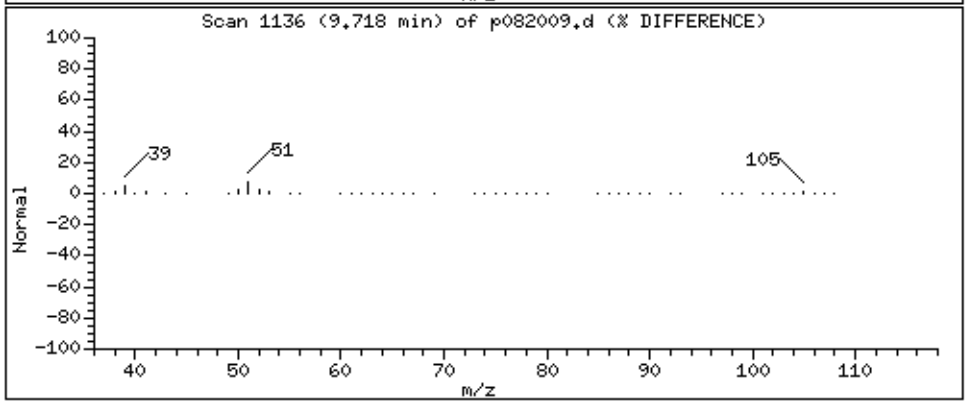












Data File: /chem/msdp.i/20AUG21.b/p082009.d

Date : 20-AUG-2021 16:27

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1040

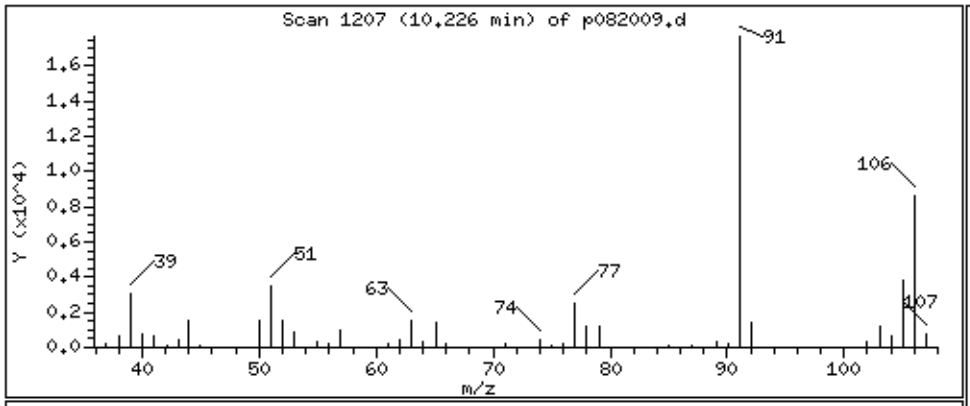
Operator: mjb

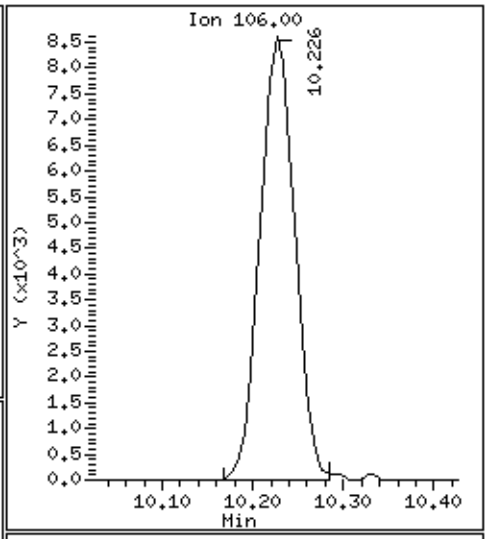
Column phase: RTX-624

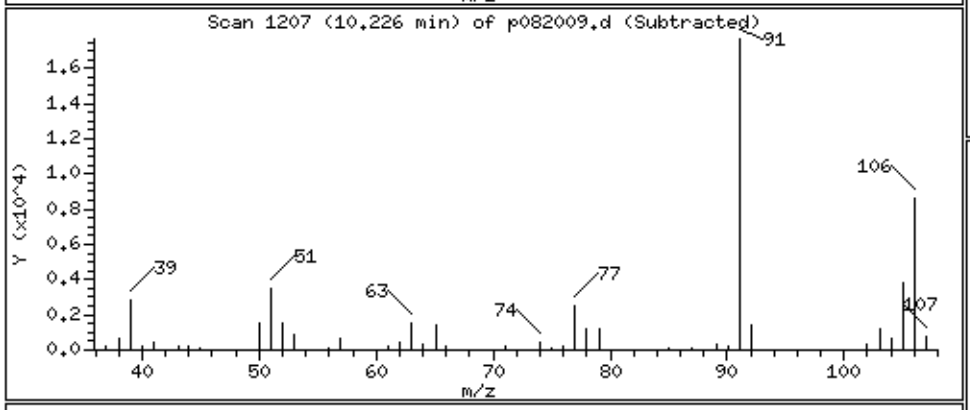
Column diameter: 0.25

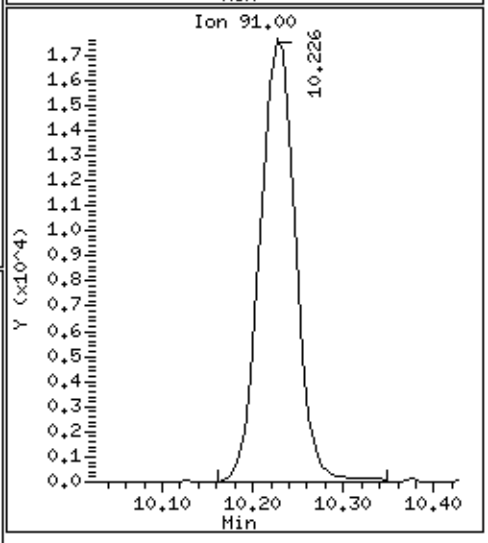
164 o-Xylene

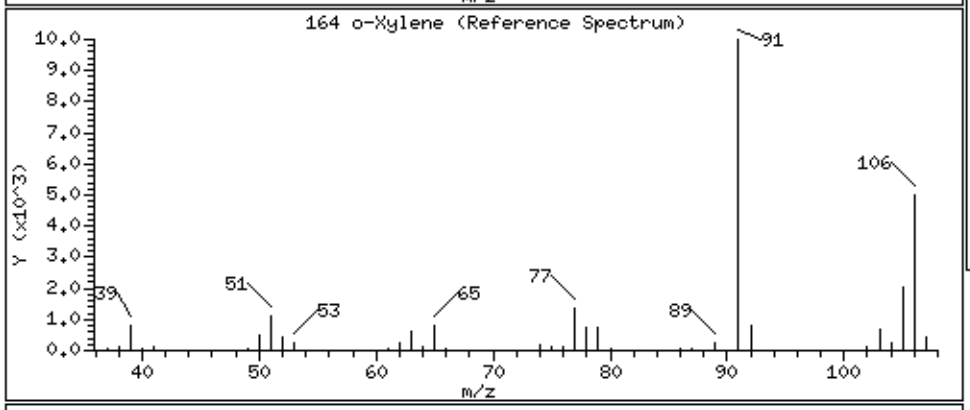
Concentration: 4.740 PPBV

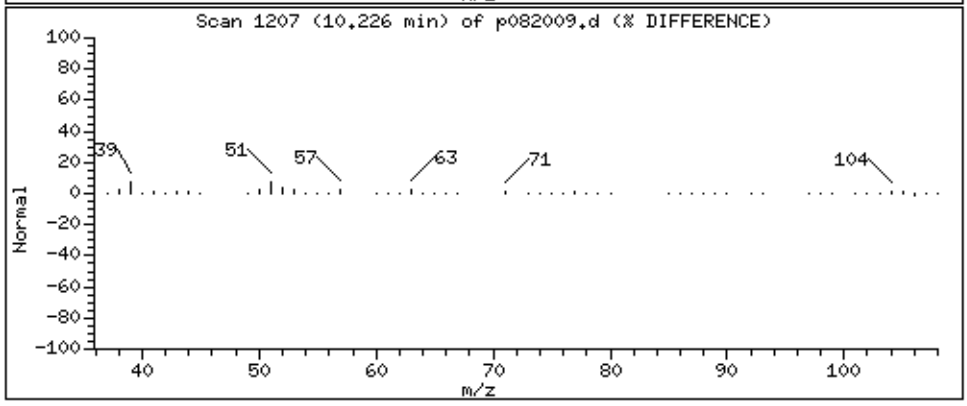












Data File: /chem/msdp.i/20AUG21.b/p082009.d

Date : 20-AUG-2021 16:27

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1040

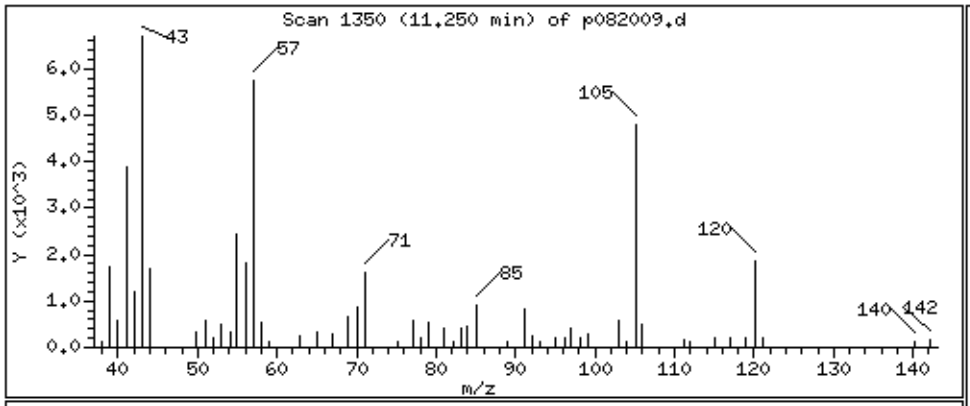
Operator: mjb

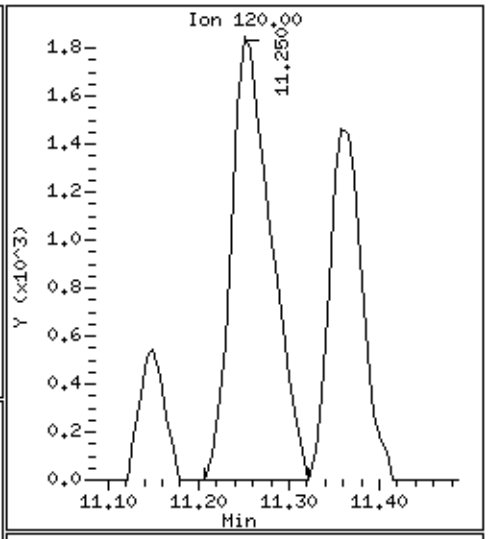
Column phase: RTX-624

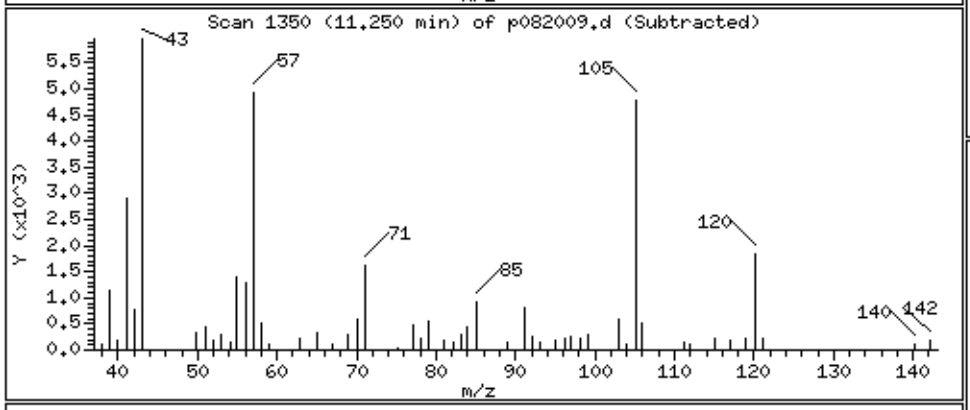
Column diameter: 0.25

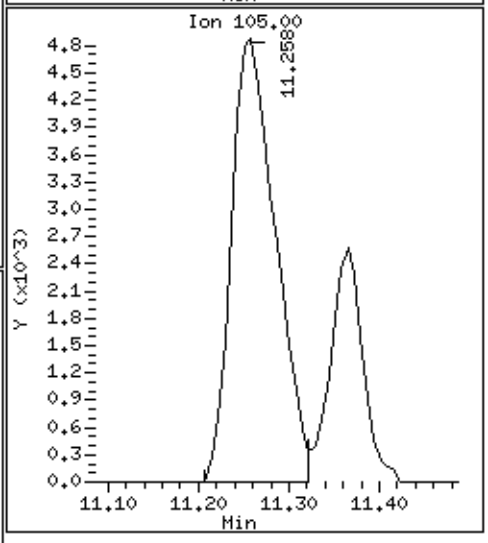
183 4-Ethyltoluene

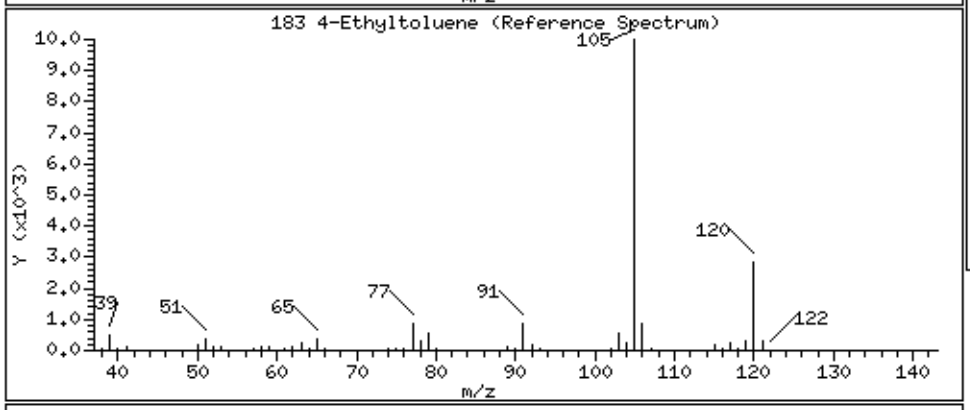
Concentration: 1.158 PPBV

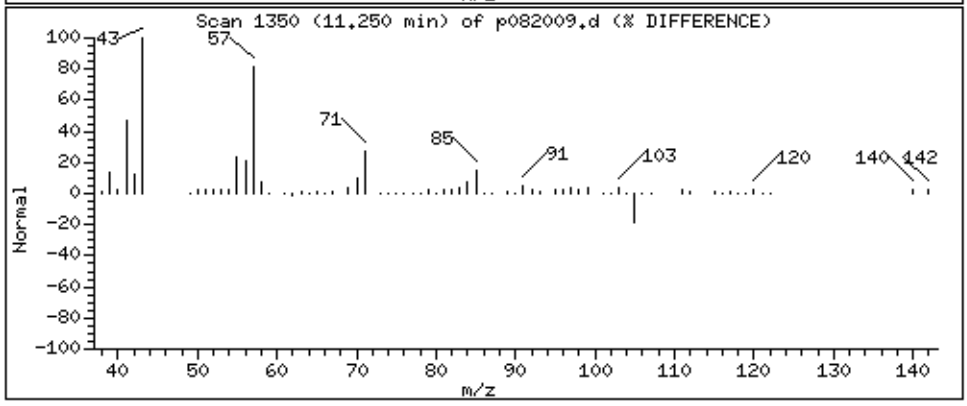












Data File: /chem/msdp.i/20AUG21.b/p082009.d

Date : 20-AUG-2021 16:27

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1040

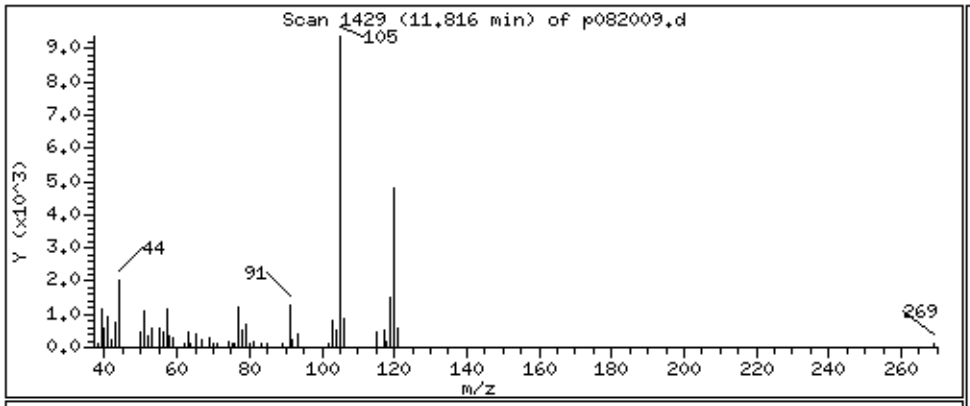
Operator: mjb

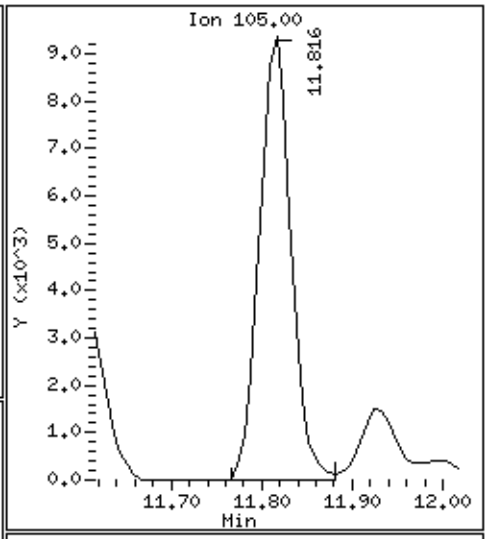
Column phase: RTX-624

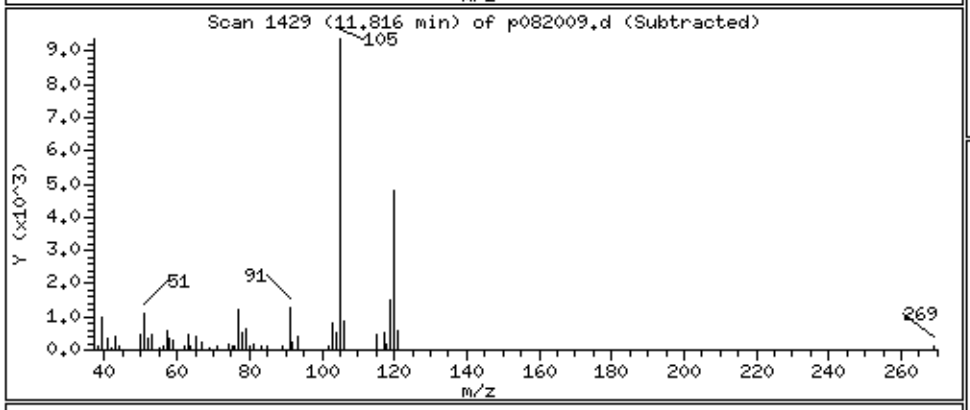
Column diameter: 0.25

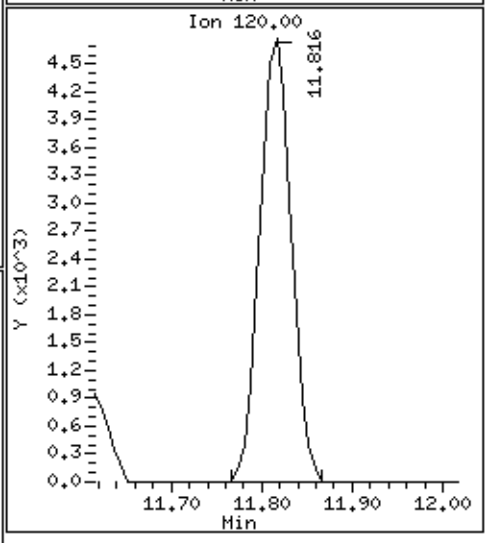
190 1,2,4-Trimethylbenzene

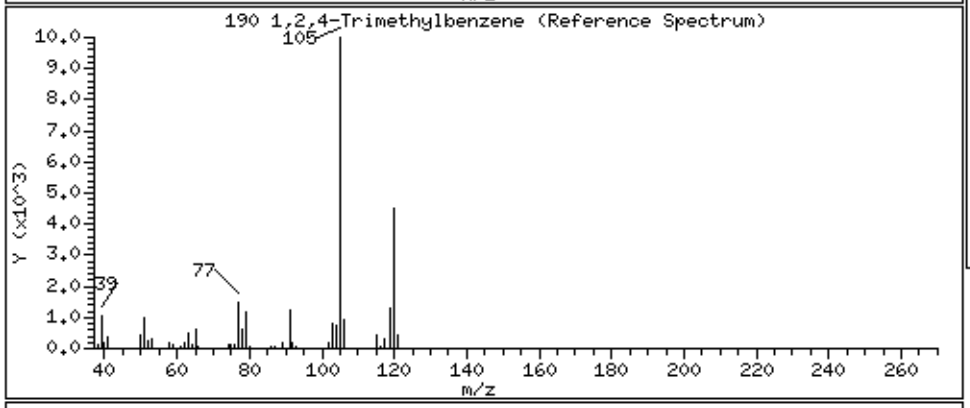
Concentration: 1.777 PPBV

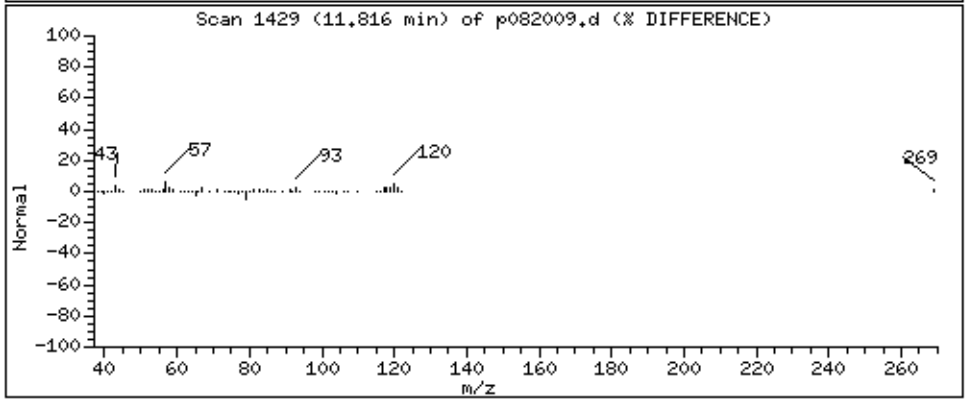












eurofins | Air Toxics

Client Sample ID: SG-VW17A-03

Lab ID#: 2108390-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p082010**	**Date of Collection:**	**8/16/21 10:31:00 AM**
Dil. Factor:	**2.02**	**Date of Analysis:**	**8/20/21 04:56 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1,2-Tetrachloroethane	4.0	Not Detected	28	Not Detected
1,1,1-Trichloroethane	1.0	Not Detected	5.5	Not Detected
1,1,2,2-Tetrachloroethane	1.0	Not Detected	6.9	Not Detected
1,1,2-Trichloroethane	1.0	Not Detected	5.5	Not Detected
1,1-Dichloroethane	1.0	Not Detected	4.1	Not Detected
1,1-Dichloroethene	1.0	Not Detected	4.0	Not Detected
1,1-Difluoroethane	4.0	4.0	11	11
1,2,3-Trichloropropane	4.0	Not Detected	24	Not Detected
1,2,4-Trichlorobenzene	4.0	Not Detected	30	Not Detected
1,2,4-Trimethylbenzene	1.0	1.6	5.0	7.7
1,2-Dibromo-3-chloropropane	4.0	Not Detected	39	Not Detected
1,2-Dibromoethane (EDB)	1.0	Not Detected	7.8	Not Detected
1,2-Dichlorobenzene	1.0	Not Detected	6.1	Not Detected
1,2-Dichloroethane	1.0	Not Detected	4.1	Not Detected
1,2-Dichloropropane	1.0	Not Detected	4.7	Not Detected
1,3,5-Trimethylbenzene	1.0	Not Detected	5.0	Not Detected
1,3-Butadiene	1.0	Not Detected	2.2	Not Detected
1,3-Dichlorobenzene	1.0	Not Detected	6.1	Not Detected
1,4-Dichlorobenzene	1.0	Not Detected	6.1	Not Detected
1,4-Dioxane	4.0	Not Detected	14	Not Detected
2,2,4-Trimethylpentane	1.0	Not Detected	4.7	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.0	Not Detected	12	Not Detected
2-Hexanone	4.0	Not Detected	16	Not Detected
2-Propanol	4.0	5.2	9.9	13
3-Chloropropene	4.0	Not Detected	13	Not Detected
4-Ethyltoluene	1.0	1.1	5.0	5.3
4-Methyl-2-pentanone	1.0	1.3	4.1	5.4
Acetone	10	Not Detected	24	Not Detected
Acrolein	4.0	Not Detected	9.3	Not Detected
Acrylonitrile	4.0	Not Detected	8.8	Not Detected
alpha-Chlorotoluene	1.0	Not Detected	5.2	Not Detected
Benzene	1.0	Not Detected	3.2	Not Detected
Bromodichloromethane	1.0	Not Detected	6.8	Not Detected
Bromoform	1.0	Not Detected	10	Not Detected
Bromomethane	10	Not Detected	39	Not Detected
Carbon Disulfide	4.0	Not Detected	12	Not Detected
Carbon Tetrachloride	1.0	Not Detected	6.4	Not Detected
Chlorobenzene	1.0	Not Detected	4.6	Not Detected
Chloroethane	4.0	Not Detected	11	Not Detected
Chloroform	1.0	39	4.9	190
Chloromethane	10	Not Detected	21	Not Detected
cis-1,2-Dichloroethene	1.0	Not Detected	4.0	Not Detected

eurofins | Air Toxics

Client Sample ID: SG-VW17A-03

Lab ID#: 2108390-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p082010**	**Date of Collection:**	**8/16/21 10:31:00 AM**
Dil. Factor:	**2.02**	**Date of Analysis:**	**8/20/21 04:56 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,3-Dichloropropene	1.0	Not Detected	4.6	Not Detected
Cumene	1.0	Not Detected	5.0	Not Detected
Cyclohexane	1.0	2.7	3.5	9.2
Dibromochloromethane	1.0	Not Detected	8.6	Not Detected
Dibromomethane	4.0	Not Detected	29	Not Detected
Ethanol	10	Not Detected	19	Not Detected
Ethyl Acetate	4.0	Not Detected	14	Not Detected
Ethyl Benzene	1.0	2.1	4.4	9.1
Ethyl-tert-butyl ether	4.0	Not Detected	17	Not Detected
Freon 11	1.0	Not Detected	5.7	Not Detected
Freon 12	1.0	Not Detected	5.0	Not Detected
Freon 113	1.0	Not Detected	7.7	Not Detected
Freon 114	1.0	Not Detected	7.1	Not Detected
Freon 134a	4.0	Not Detected	17	Not Detected
Heptane	1.0	Not Detected	4.1	Not Detected
Hexachlorobutadiene	4.0	Not Detected	43	Not Detected
Hexachloroethane	4.0	Not Detected	39	Not Detected
Hexane	1.0	670 E	3.6	2400 E
Iodomethane	10	Not Detected	59	Not Detected
Isopropyl ether	4.0	Not Detected	17	Not Detected
m,p-Xylene	1.0	8.7	4.4	38
Methyl tert-butyl ether	4.0	Not Detected	14	Not Detected
Methylene Chloride	10	Not Detected	35	Not Detected
Naphthalene	2.0	Not Detected	10	Not Detected
o-Xylene	1.0	3.5	4.4	15
Propylbenzene	1.0	Not Detected	5.0	Not Detected
Propylene	4.0	Not Detected	7.0	Not Detected
Styrene	1.0	Not Detected	4.3	Not Detected
tert-Amyl methyl ether	4.0	Not Detected	17	Not Detected
tert-Butyl alcohol	4.0	Not Detected	12	Not Detected
Tetrachloroethene	1.0	16	6.8	110
Tetrahydrofuran	1.0	Not Detected	3.0	Not Detected
Toluene	1.0	1.3	3.8	5.0
TPH ref. to Gasoline (MW=100)	100	1000	410	4100
trans-1,2-Dichloroethene	1.0	Not Detected	4.0	Not Detected
trans-1,3-Dichloropropene	1.0	Not Detected	4.6	Not Detected
Trichloroethene	1.0	Not Detected	5.4	Not Detected
Vinyl Acetate	4.0	Not Detected	14	Not Detected
Vinyl Bromide	4.0	Not Detected	18	Not Detected
Vinyl Chloride	1.0	Not Detected	2.6	Not Detected

eurofins | Air Toxics

Client Sample ID: SG-VW17A-03

Lab ID#: 2108390-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p082010**	**Date of Collection: 8/16/21 10:31:00 AM**
Dil. Factor:	**2.02**	**Date of Analysis: 8/20/21 04:56 PM**

E = Exceeds instrument calibration range.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	110	70-130
4-Bromofluorobenzene	104	70-130

US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/20AUG21.b/p082010.d
Lab Smp Id: 2108390-03A
Inj Date : 20-AUG-2021 16:56
Operator : mjb Inst ID: msdp.i
Smp Info : 200ml 1L1614
Misc Info : 5.0 Hg->10 psi
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/20AUG21.b/p21q0519a.m
Meth Date : 20-Aug-2021 12:59 p5fl Quant Type: ISTD
Cal Date : 19-MAY-2021 19:45 Cal File: p051915.d
Als bottle: 3
Dil Factor: 2.02000
Integrator: HP RTE Compound Sublist: AEC25677.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE		(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 90 Bromochloromethane						CAS #: 74-97-5		
5.785	5.785 (1.000)	130	109467	25.0000			80.00- 120.00	100.00
5.785	5.785 (1.000)	128	84446				48.23- 108.23	77.14
5.785	5.778 (1.000)	49	268448				150.57- 210.57	245.23
* 108 1,4-Difluorobenzene						CAS #: 540-36-3		
6.666	6.659 (1.000)	114	409276	25.0000			80.00- 120.00	100.00
6.666	6.659 (1.000)	88	60329				0.00- 45.71	14.74
* 153 Chlorobenzene-d5						CAS #: 3114-55-4		
9.460	9.460 (1.000)	117	409380	25.0000			80.00- 120.00	100.00
9.460	9.460 (1.000)	82	212358				23.78- 83.78	51.87
$ 104 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
6.315	6.315 (1.092)	65	165550	27.4035	27.404		80.00- 120.00	100.00
6.315	6.315 (1.092)	67	76386				27.21- 87.21	46.14
$ 134 Toluene-d8						CAS #: 2037-26-5		
7.891	7.891 (1.184)	98	442789	24.9145	24.914		80.00- 120.00	100.00
7.891	7.891 (1.184)	70	47748				0.00- 40.44	10.78

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 134 Toluene-d8 (continued)							
7.891	7.891 (1.184)	100	286053			34.95- 94.95	64.60
$ 170 4-Bromofluorobenzene					CAS #: 460-00-4		
10.921	10.921 (1.154)	174	273770	26.0425	26.042	80.00- 120.00	100.00
10.914	10.914 (1.154)	95	317305			95.92- 155.92	115.90
10.921	10.921 (1.154)	176	262925			66.89- 126.89	96.04
7 1,1-Difluoroethane					CAS #: 75-37-6		
1.717	1.703 (0.297)	65	4926	1.98527	4.010	80.00- 120.00	100.00(a)
1.772	1.759 (0.306)	51	2367232			597.63- 657.63	48050.88
1.772	1.717 (0.306)	47	49820			33.72- 93.72	1011.27
52 2-Propanol					CAS #: 67-63-0		
3.901	3.894 (0.674)	45	29857	2.58141	5.214	80.00- 120.00	100.00
3.894	3.894 (0.673)	43	6985			0.00- 47.19	23.39
67 Hexane					CAS #: 110-54-3		
4.696	4.697 (0.812)	57	3561474	330.263	667.13	80.00- 120.00	100.00(A)
4.696	4.697 (0.812)	43	2755118			37.52- 97.52	77.36
4.696	4.697 (0.812)	86	353541			0.00- 41.48	9.93
92 Chloroform					CAS #: 67-66-3		
5.843	5.843 (1.010)	83	183108	19.2250	38.834	80.00- 120.00	100.00
5.843	5.843 (1.010)	85	120071			34.70- 94.70	65.57
94 Cyclohexane					CAS #: 110-82-7		
5.964	5.957 (1.031)	84	9119	1.32430	2.675	80.00- 120.00	100.00
5.964	5.957 (1.031)	56	20677			142.57- 202.57	226.75
5.957	5.957 (1.030)	41	12770			62.09- 122.09	140.04
131 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.798	7.798 (1.170)	58	4606	0.65506	1.323	80.00- 120.00	100.00
7.798	7.798 (1.170)	43	15717			242.35- 302.35	341.18
7.798	7.798 (1.170)	85	1408			3.24- 63.24	30.57
137 Toluene					CAS #: 108-88-3		
7.956	7.956 (1.193)	91	12258	0.65784	1.329	80.00- 120.00	100.00
7.956	7.956 (1.193)	92	6484			28.38- 88.38	52.90
142 Tetrachloroethene					CAS #: 127-18-4		
8.464	8.464 (0.895)	166	75197	8.05961	16.280	80.00- 120.00	100.00
8.464	8.464 (0.895)	129	58630			47.84- 107.84	77.97
8.464	8.464 (0.895)	131	56850			45.29- 105.29	75.60
155 Ethyl Benzene					CAS #: 100-41-4		
9.567	9.567 (1.011)	106	8837	1.03962	2.100	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
155 Ethyl Benzene (continued)							
9.567	9.567 (1.011)	91	30397			273.74- 333.74	343.96
158 m,p-Xylene					CAS #: 108-38-3		
9.711	9.718 (1.026)	106	45657	4.28866	8.663	80.00- 120.00	100.00
9.718	9.718 (1.027)	91	89422			163.73- 223.73	195.85
164 o-Xylene					CAS #: 95-47-6		
10.226	10.226 (1.081)	106	17595	1.72499	3.484	80.00- 120.00	100.00
10.226	10.226 (1.081)	91	37136			177.45- 237.45	211.06
183 4-Ethyltoluene					CAS #: 622-96-8		
11.251	11.287 (1.189)	120	5511	0.53339	1.077	80.00- 120.00	100.00
11.251	11.287 (1.189)	105	15781			284.55- 344.55	286.35
190 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
11.817	11.817 (1.249)	105	20829	0.77575	1.567	80.00- 120.00	100.00
11.817	11.817 (1.249)	120	9631			19.05- 79.05	46.24

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p082010.d
Lab Smp Id: 2108390-03A
Analysis Type: VOA
Quant Type: ISTD
Operator: mjb
Method File: /chem/msdp.i/20AUG21.b/p21q0519a.m
Misc Info: 5.0 Hg->10 psi

Calibration Date: 20-AUG-2021
Calibration Time: 11:13
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	109375	65625	153125	109467	0.08
108 1,4-Difluorobenze	406799	244079	569519	409276	0.61
153 Chlorobenzene-d5	400841	240505	561177	409380	2.13

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.79	5.46	6.12	5.79	-0.00
108 1,4-Difluorobenze	6.66	6.33	6.99	6.67	0.11
153 Chlorobenzene-d5	9.46	9.13	9.79	9.46	-0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 24-Aug-2021 10:36

US32TAR1

RECOVERY REPORT

Client Name: Client SDG: 20AUG21
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 2108390-03A
Level: LOW Operator: mjb
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT20_new.spk Quant Type: ISTD
Sublist File: AEC25677.sub
Method File: /chem/msdp.i/20AUG21.b/p21q0519a.m
Misc Info: 5.0 Hg->10 psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 104 1,2-Dichloroethan	25.000	27.404	109.61	70-130
$ 134 Toluene-d8	25.000	24.914	99.66	70-130
$ 170 4-Bromofluorobenz	25.000	26.042	104.17	70-130

Data File: /chem/msdp.i/20AUG21.b/p082010.d

Date : 20-AUG-2021 16:56

Client ID:

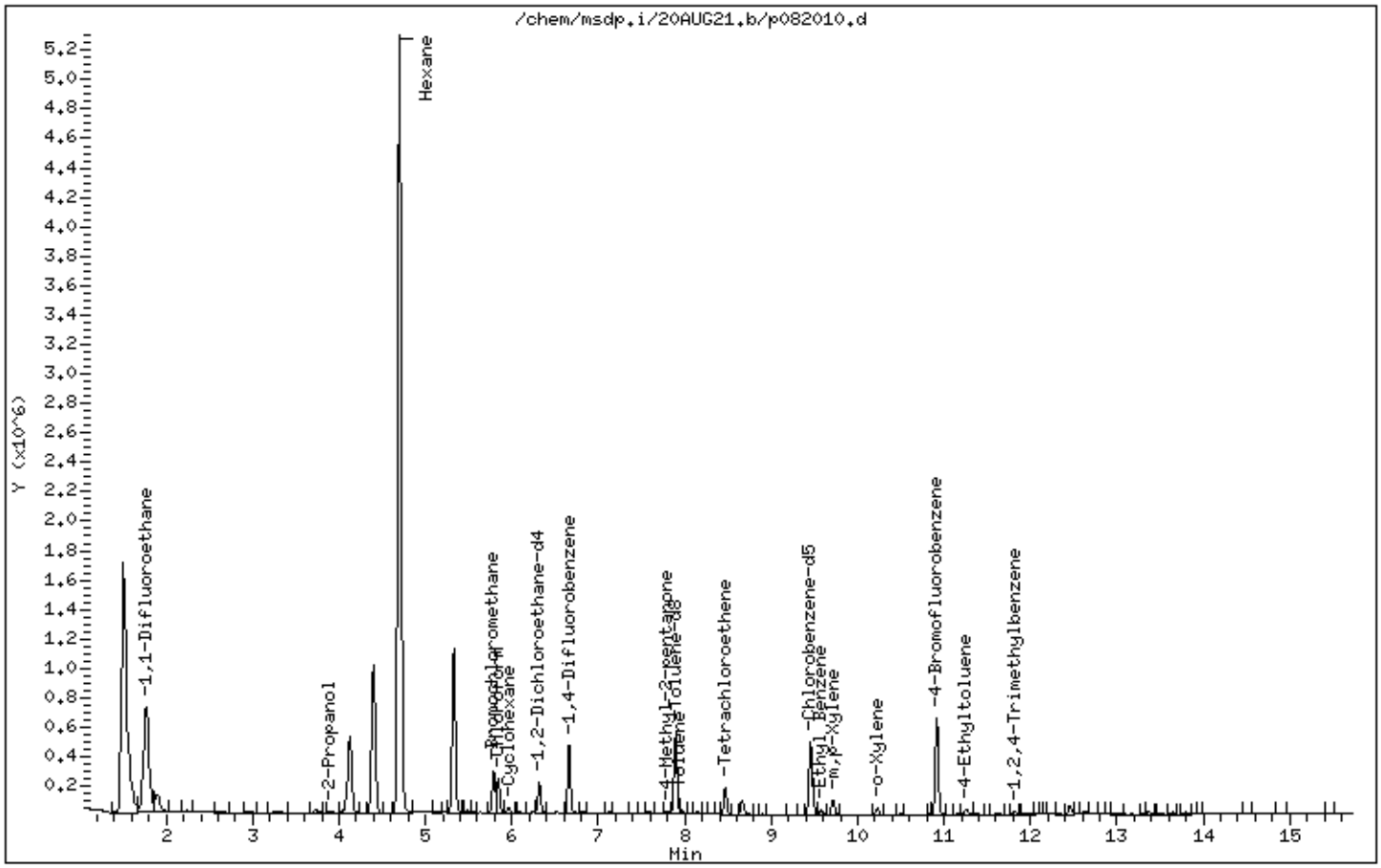
Instrument: msdp.i

Sample Info: 200ml 1L1614

Operator: mjb

Column phase: RTX-624

Column diameter: 0.25



Data File: /chem/msdp.i/20AUG21.b/p082010.d

Date : 20-AUG-2021 16:56

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1L1614

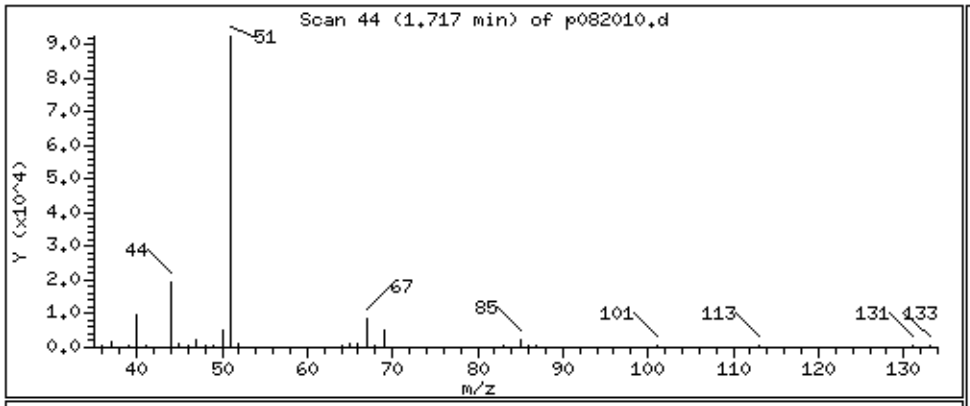
Operator: mjb

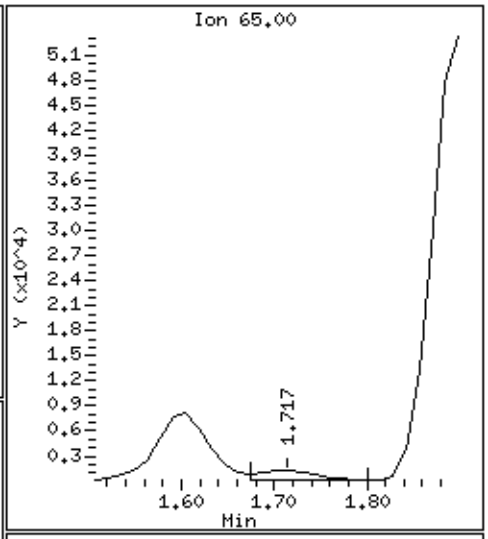
Column phase: RTX-624

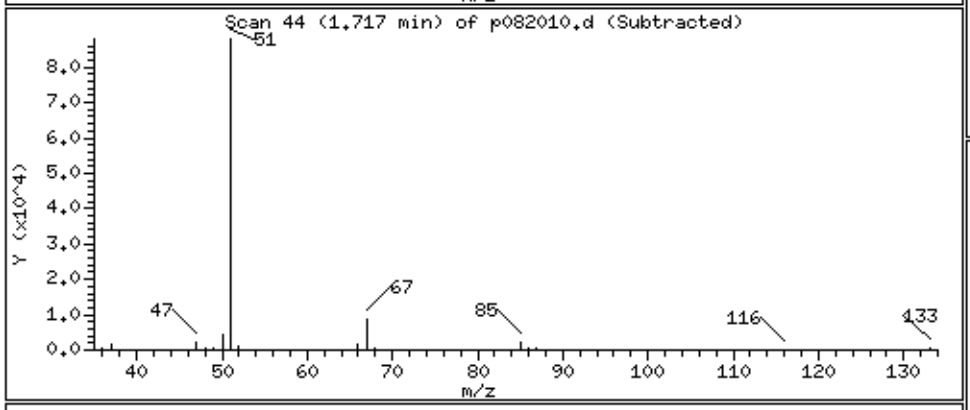
Column diameter: 0.25

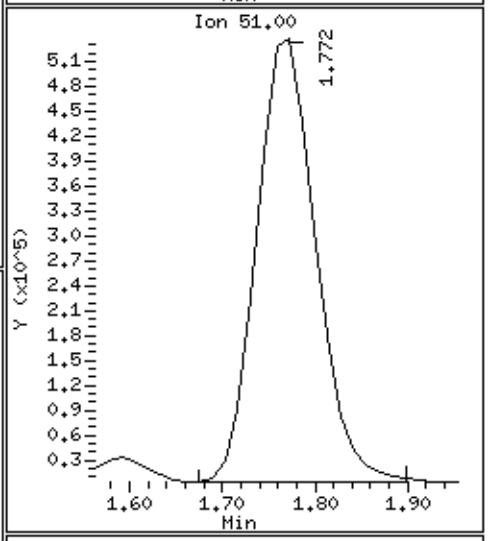
7 1,1-Difluoroethane

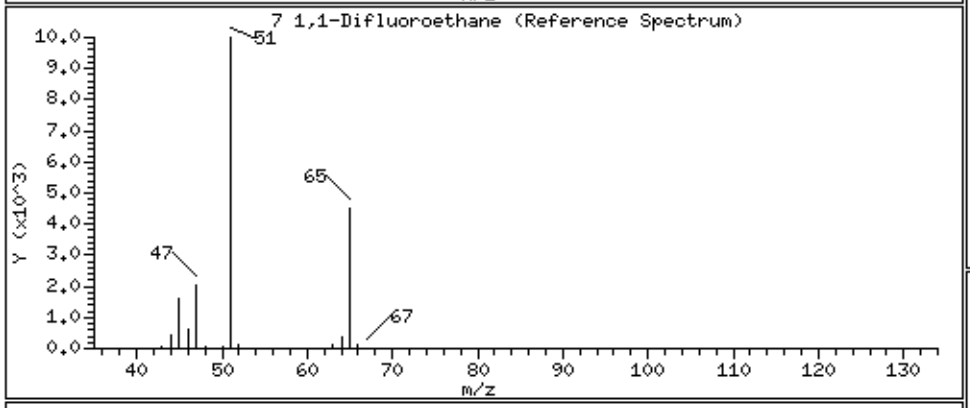
Concentration: 4.010 PPBV

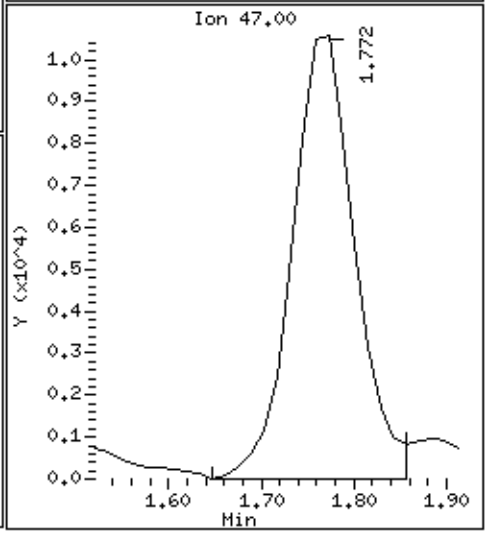


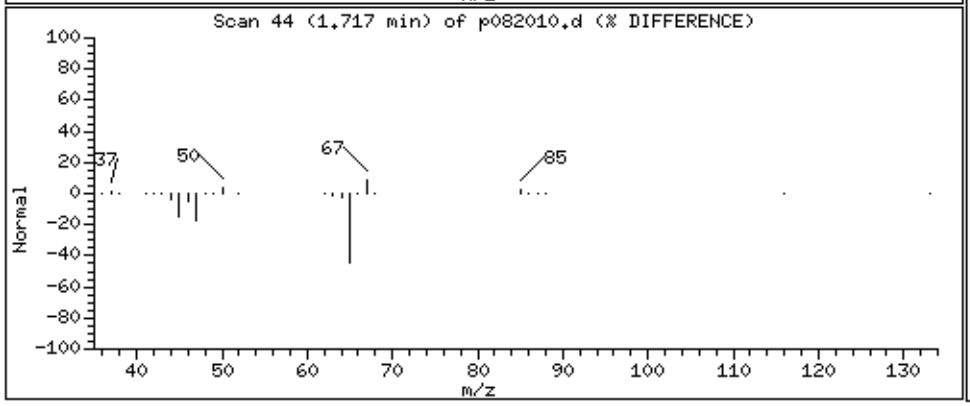












Data File: /chem/msdp.i/20AUG21.b/p082010.d

Date : 20-AUG-2021 16:56

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1L1614

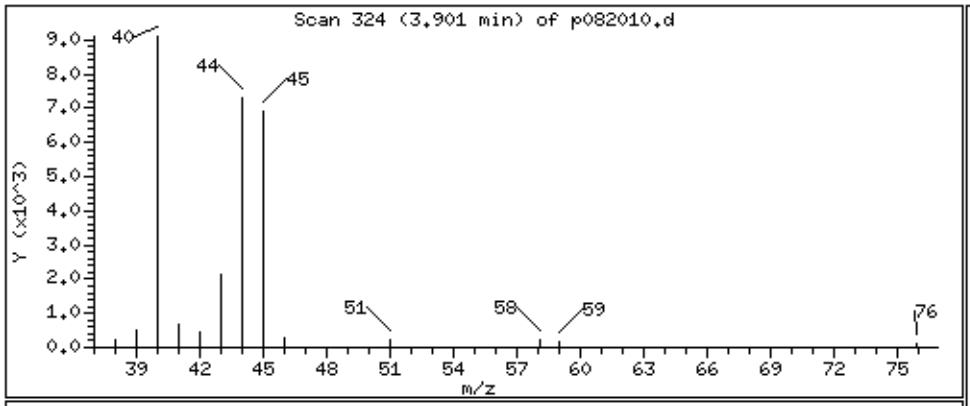
Operator: mjb

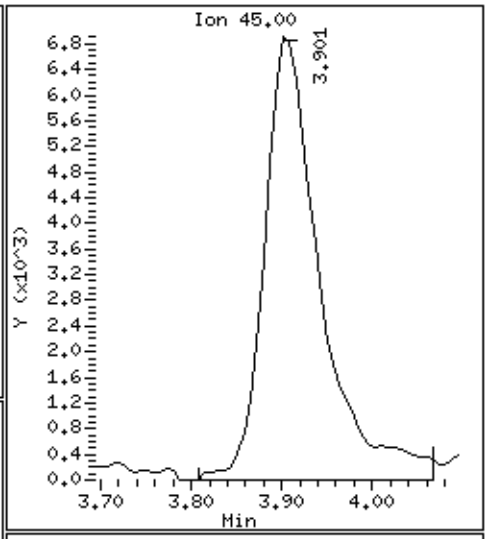
Column phase: RTX-624

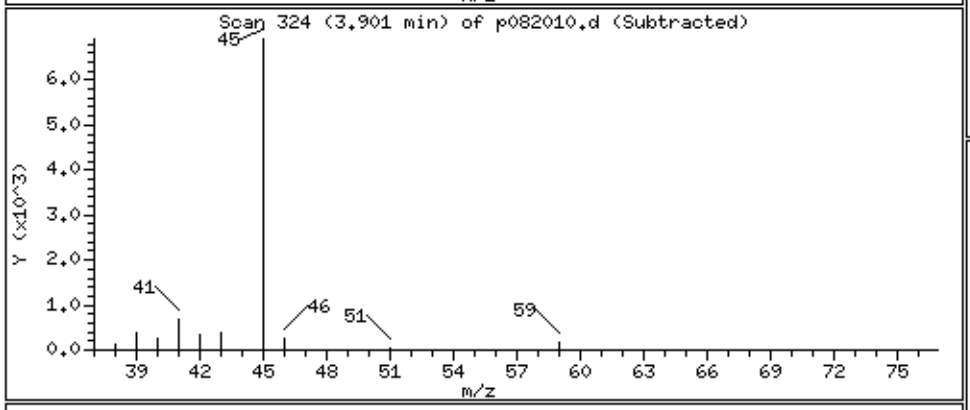
Column diameter: 0.25

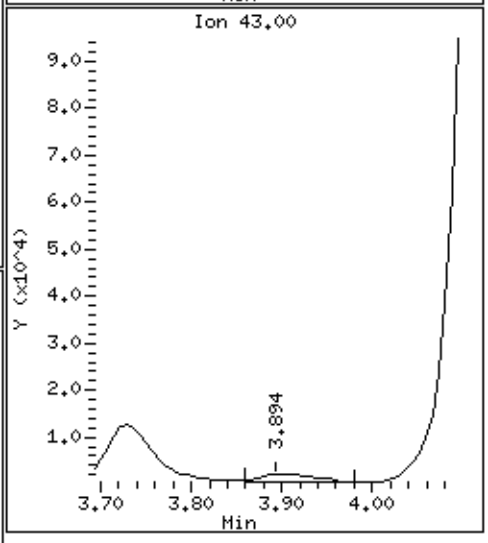
52 2-Propanol

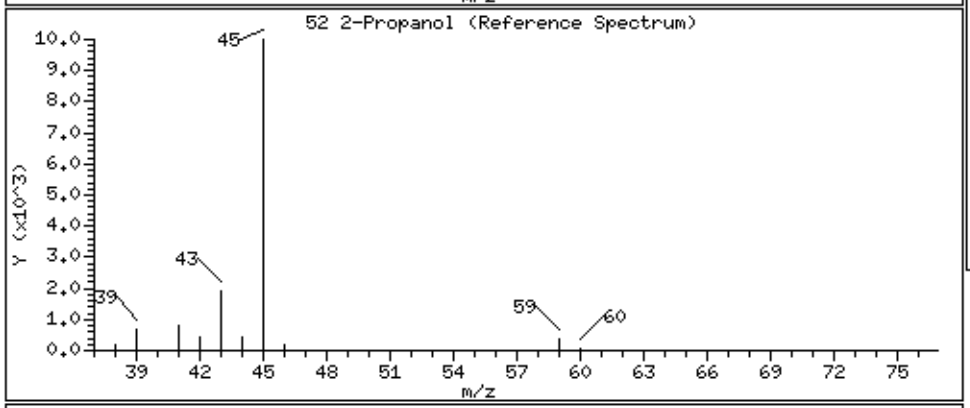
Concentration: 5.214 PPBV

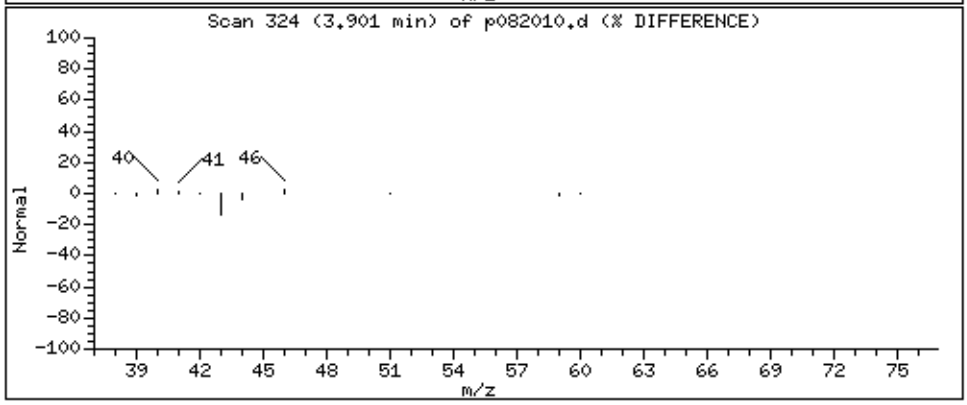












Data File: /chem/msdp.i/20AUG21.b/p082010.d

Date : 20-AUG-2021 16:56

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1L1614

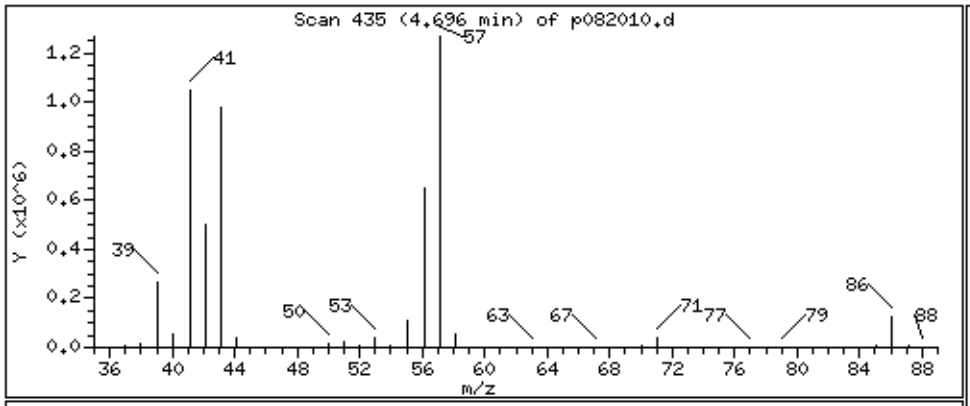
Operator: mjb

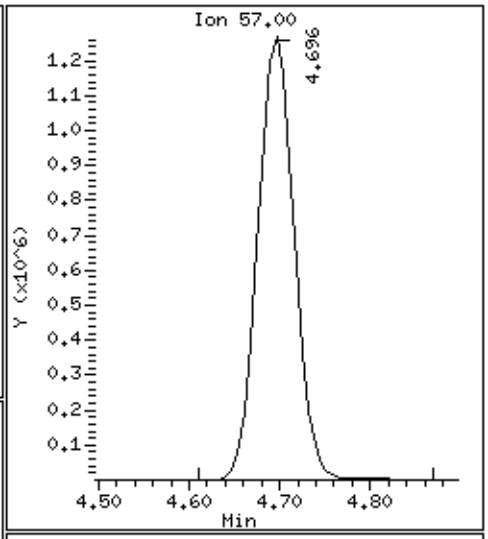
Column phase: RTX-624

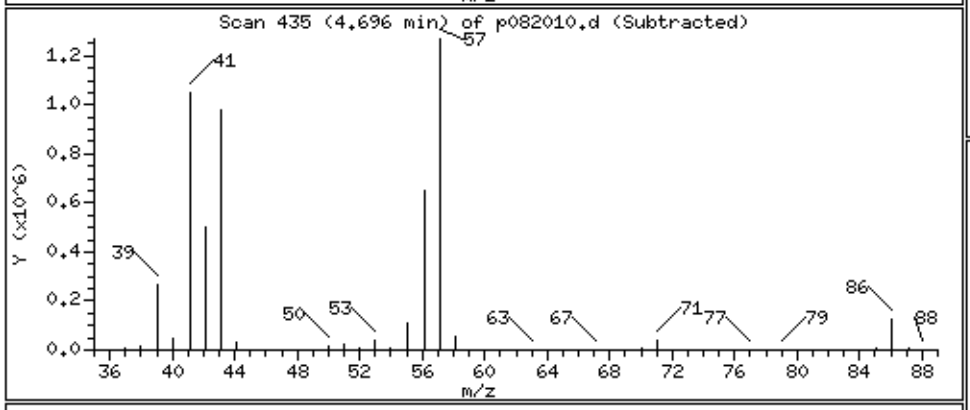
Column diameter: 0.25

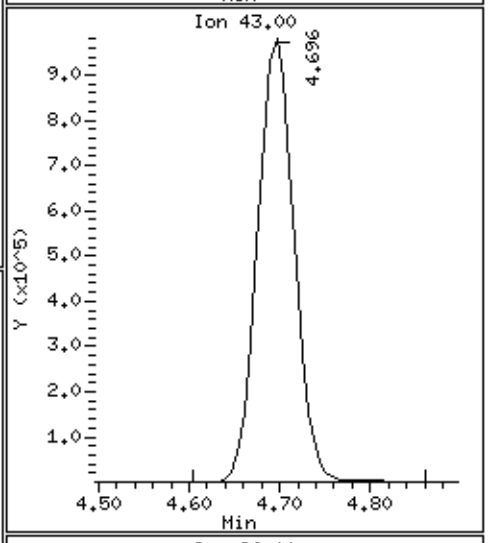
67 Hexane

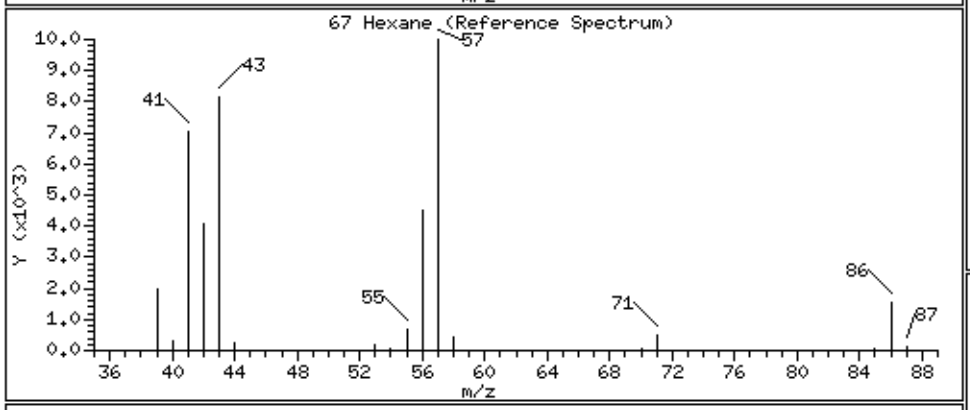
Concentration: 667.13 PPBV

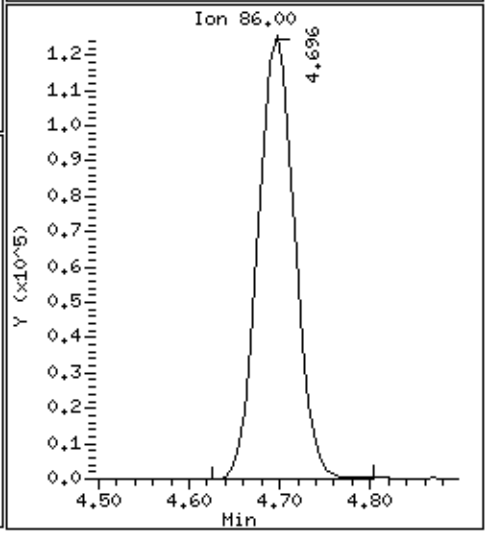


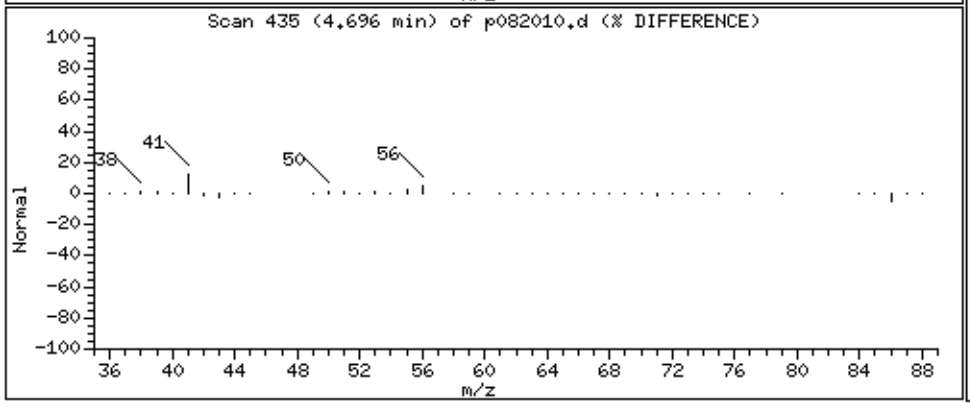












Data File: /chem/msdp.i/20AUG21.b/p082010.d

Date : 20-AUG-2021 16:56

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1L1614

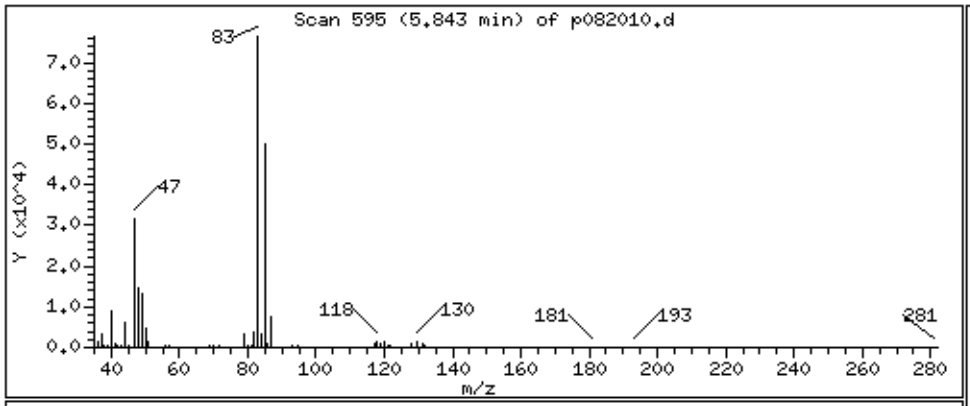
Operator: mjb

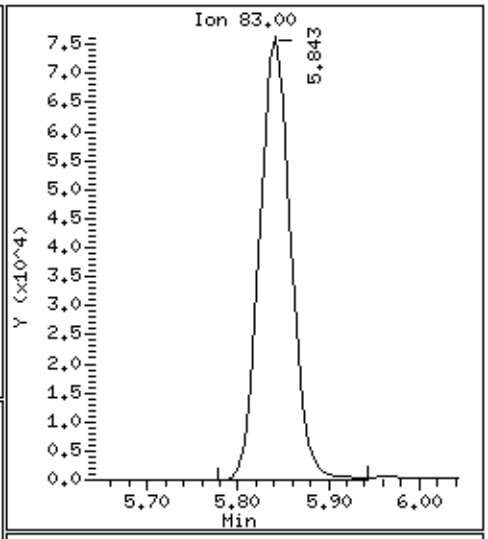
Column phase: RTX-624

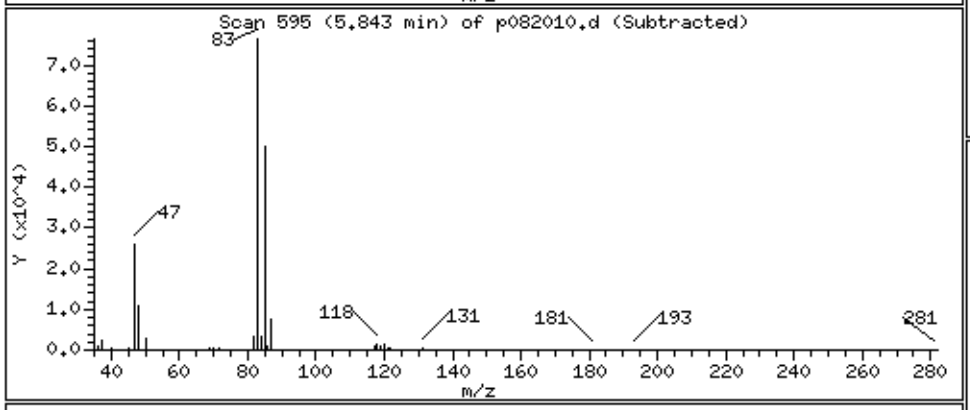
Column diameter: 0.25

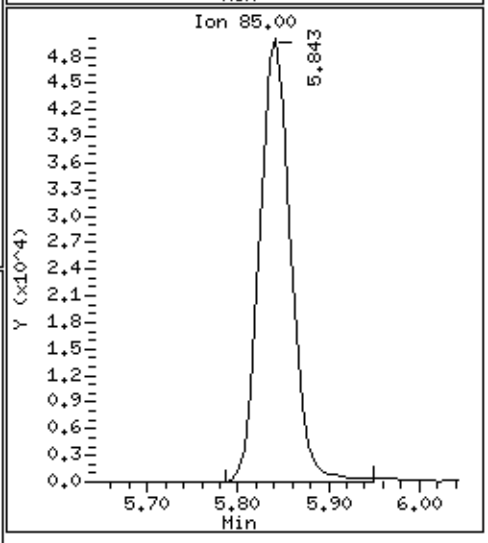
92 Chloroform

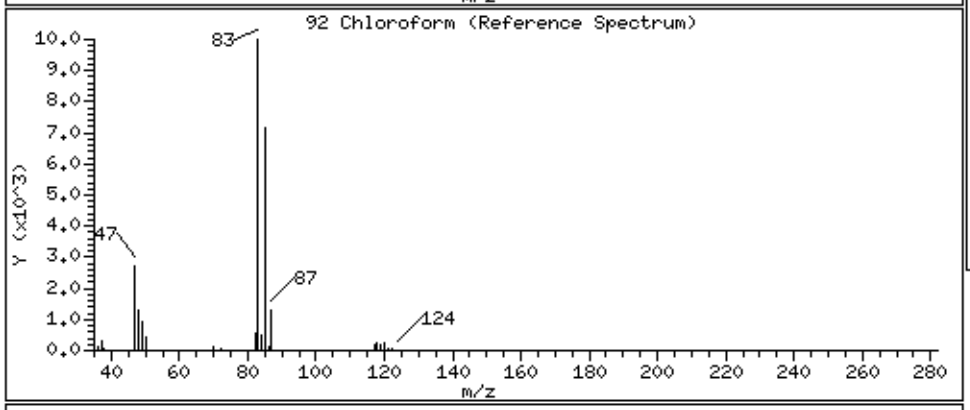
Concentration: 38.834 PPBV

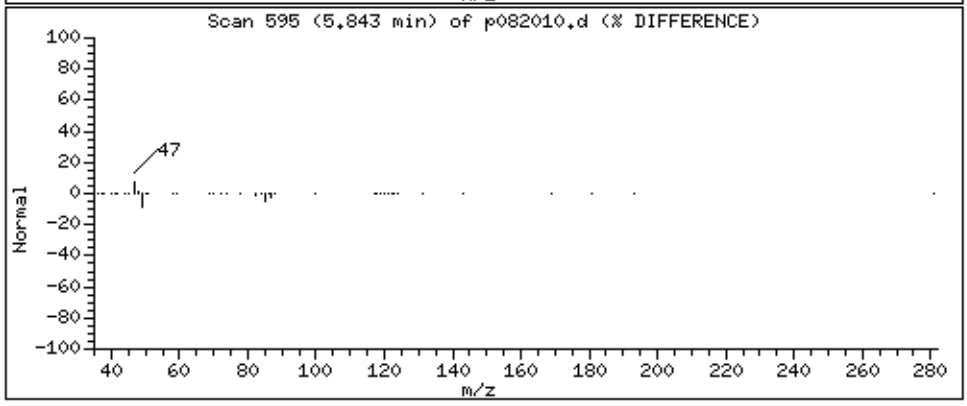












Data File: /chem/msdp.i/20AUG21.b/p082010.d

Date : 20-AUG-2021 16:56

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1L1614

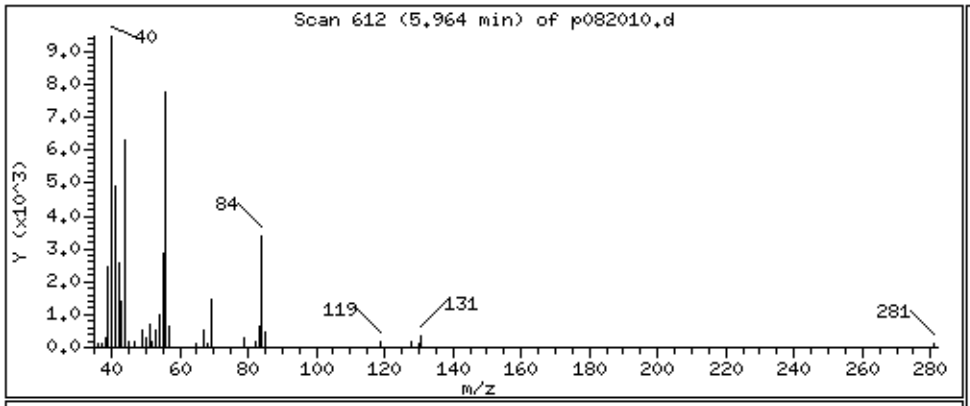
Operator: mjb

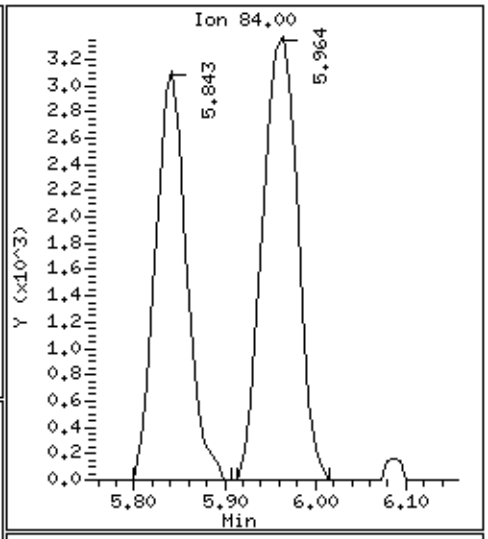
Column phase: RTX-624

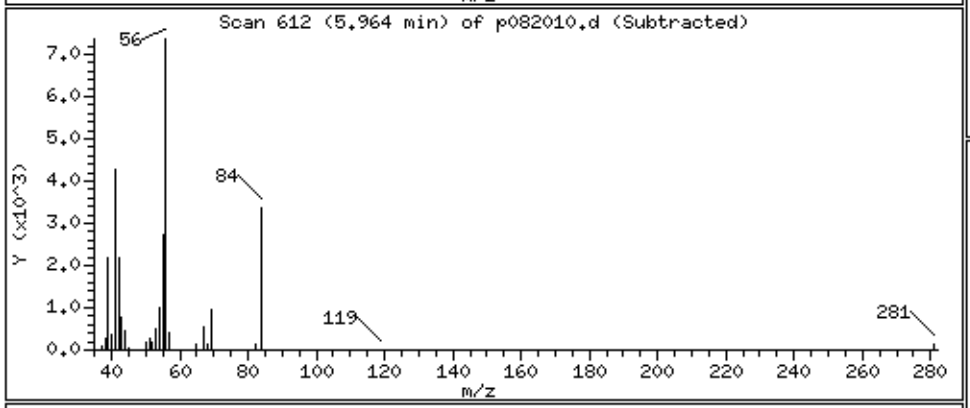
Column diameter: 0.25

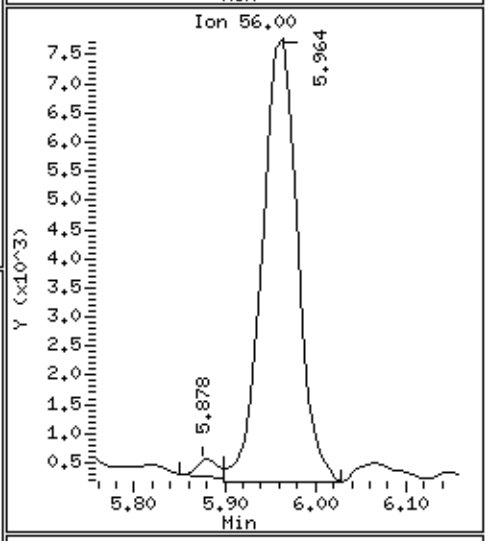
94 Cyclohexane

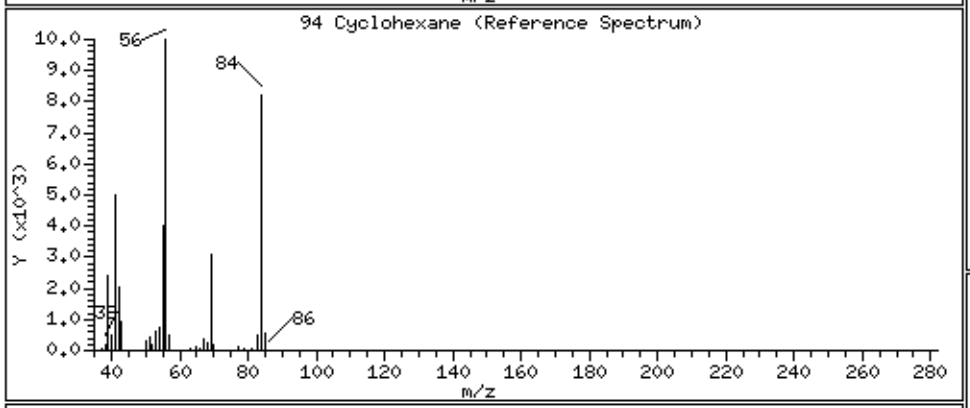
Concentration: 2.675 PPBV

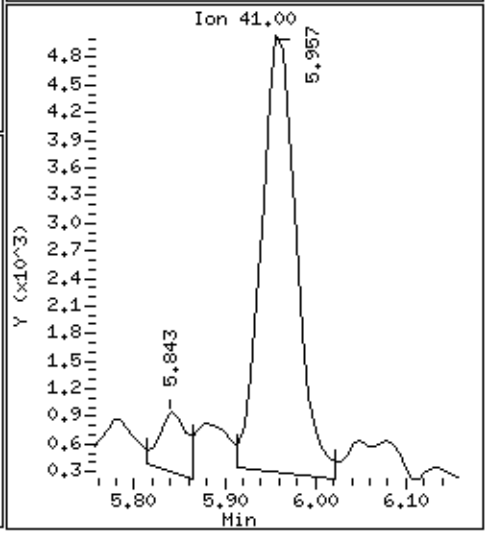


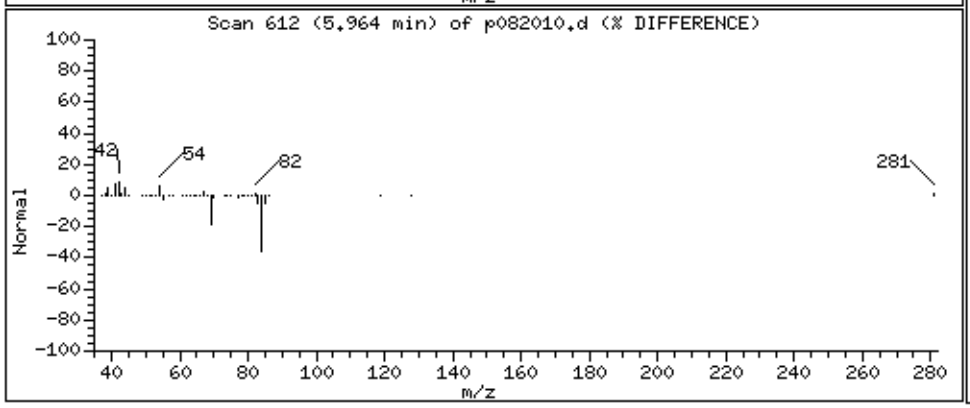












Data File: /chem/msdp.i/20AUG21.b/p082010.d

Date : 20-AUG-2021 16:56

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1L1614

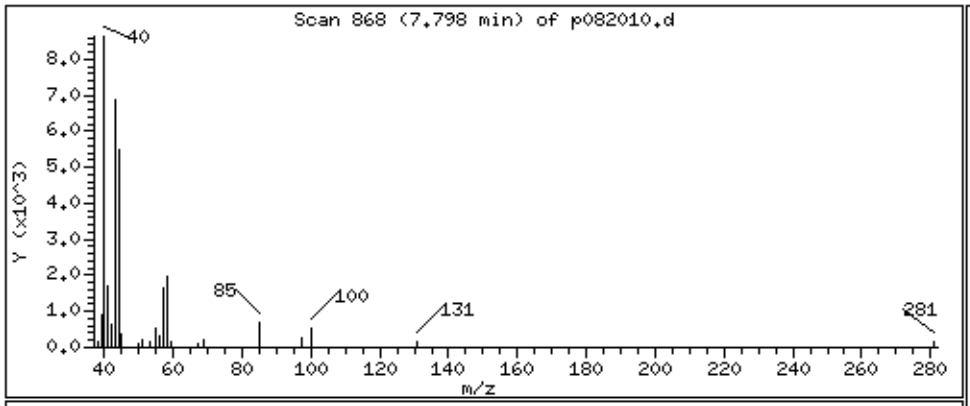
Operator: mjb

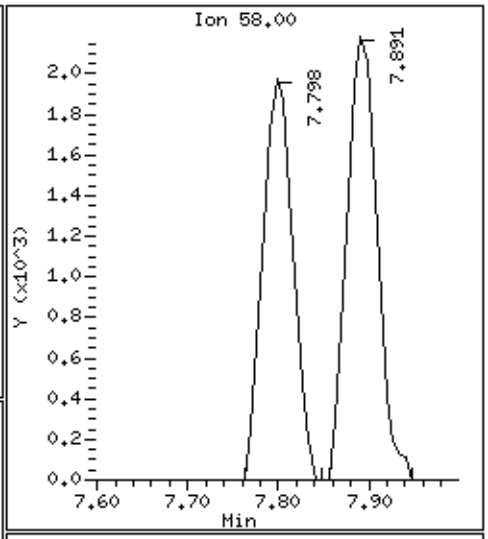
Column phase: RTX-624

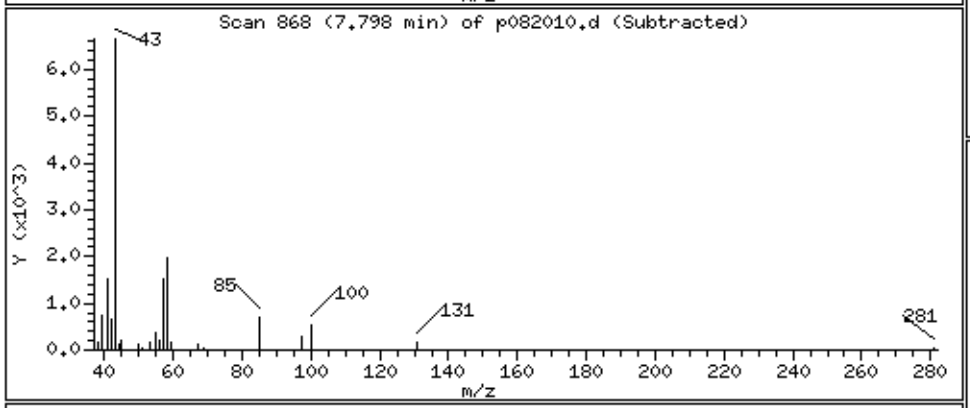
Column diameter: 0.25

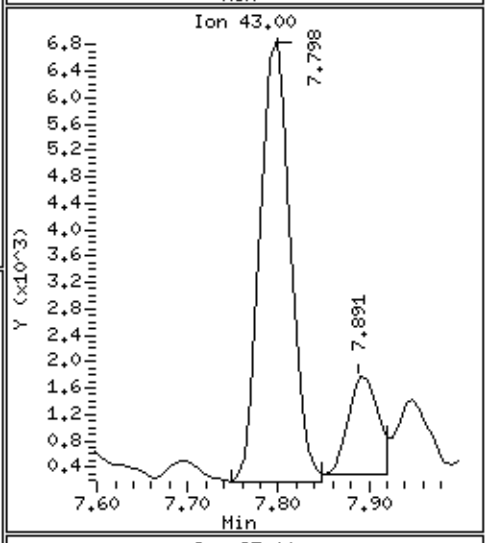
131 4-Methyl-2-pentanone

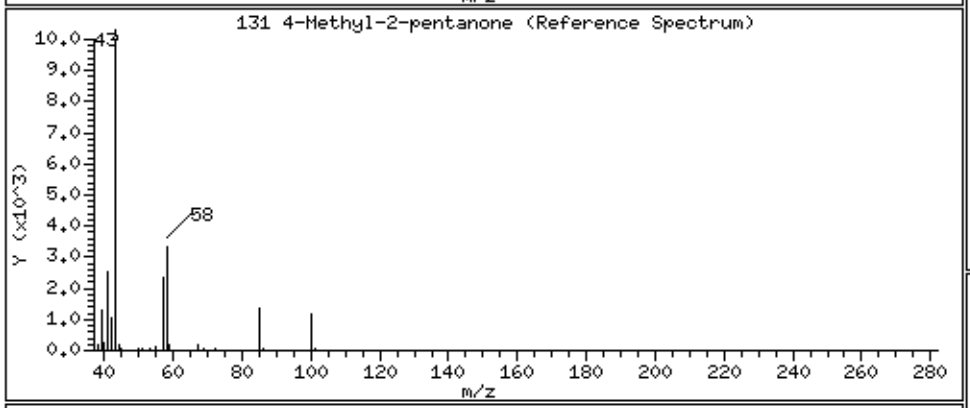
Concentration: 1.323 PPBV

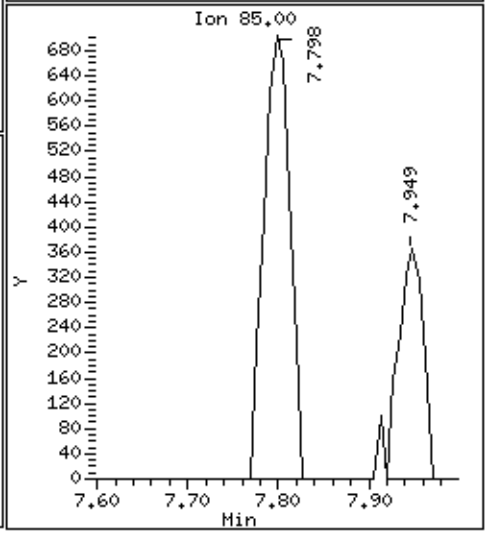


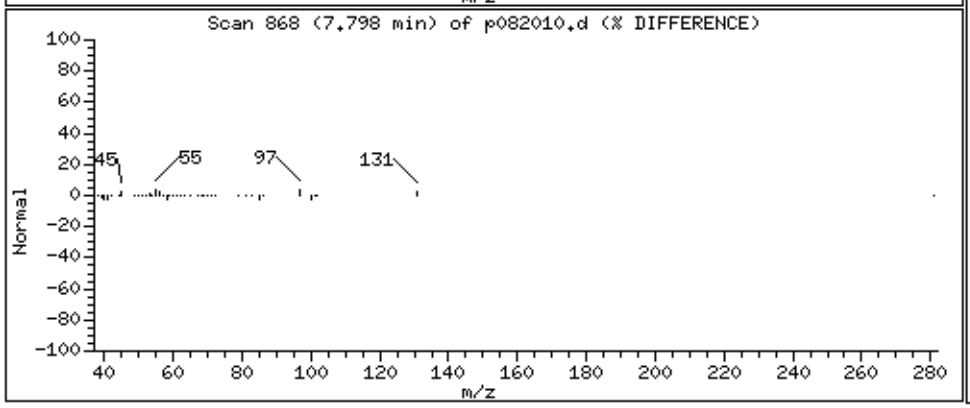












Data File: /chem/msdp.i/20AUG21.b/p082010.d

Date : 20-AUG-2021 16:56

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1L1614

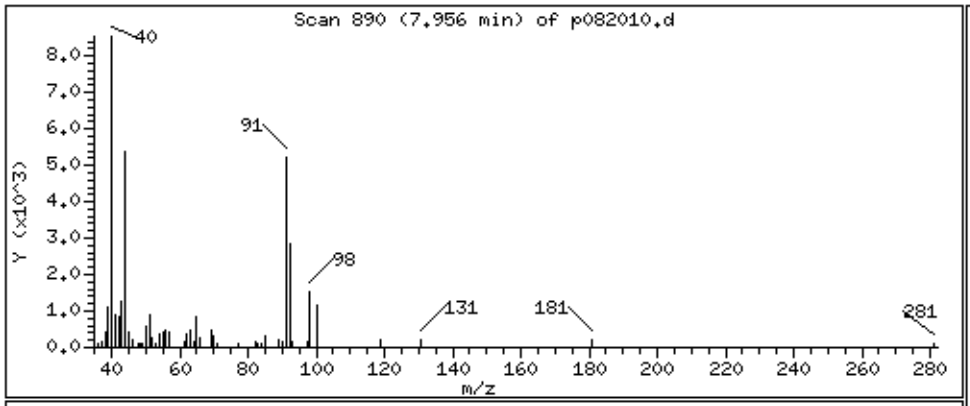
Operator: mjb

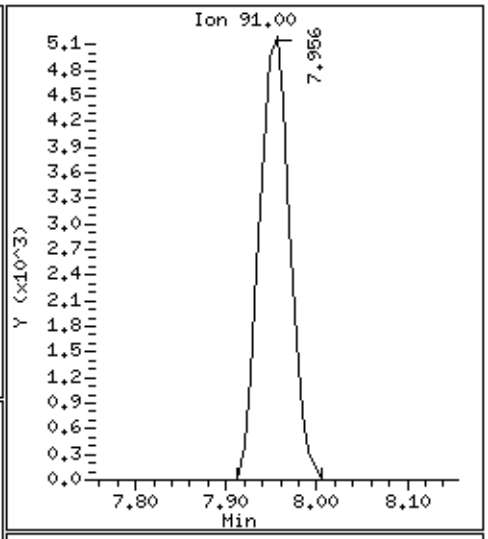
Column phase: RTX-624

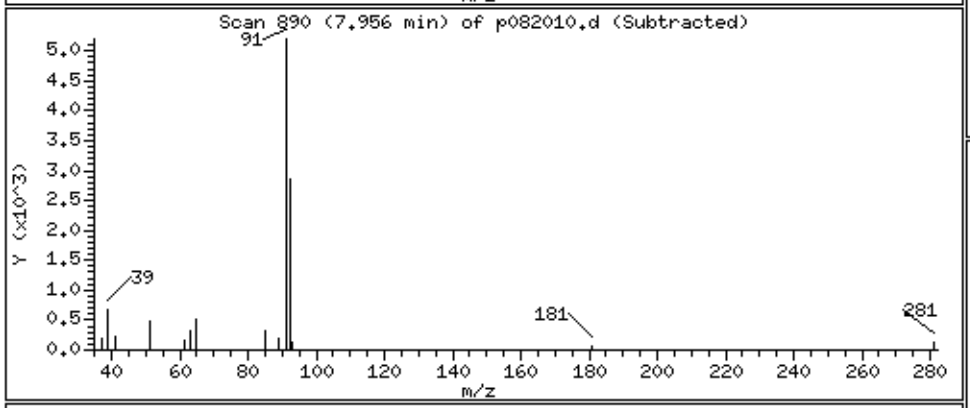
Column diameter: 0.25

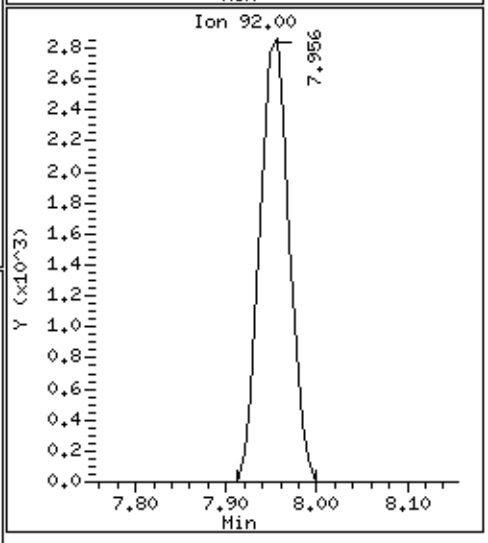
137 Toluene

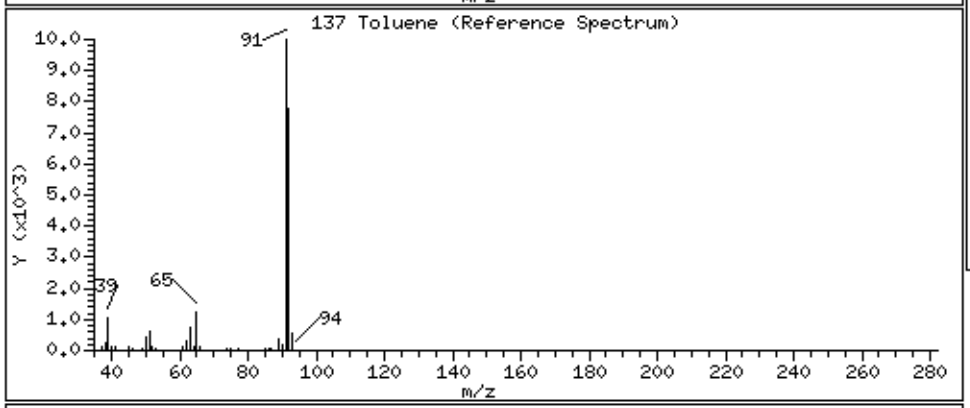
Concentration: 1.329 PPBV

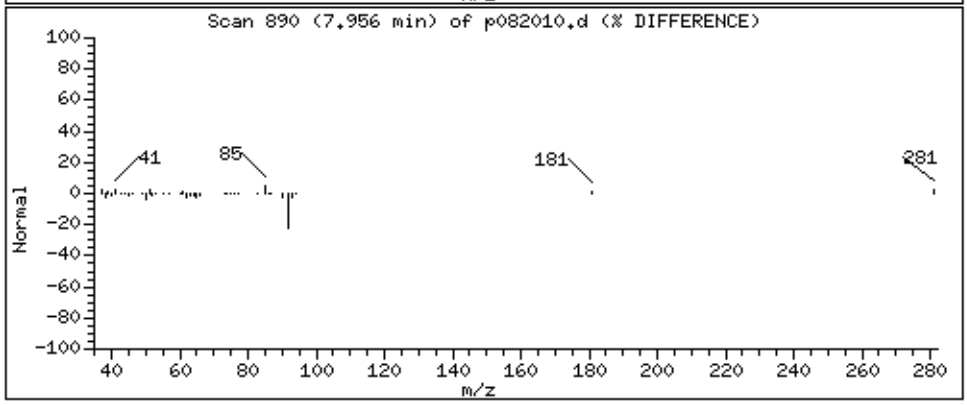












Data File: /chem/msdp.i/20AUG21.b/p082010.d

Date : 20-AUG-2021 16:56

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1L1614

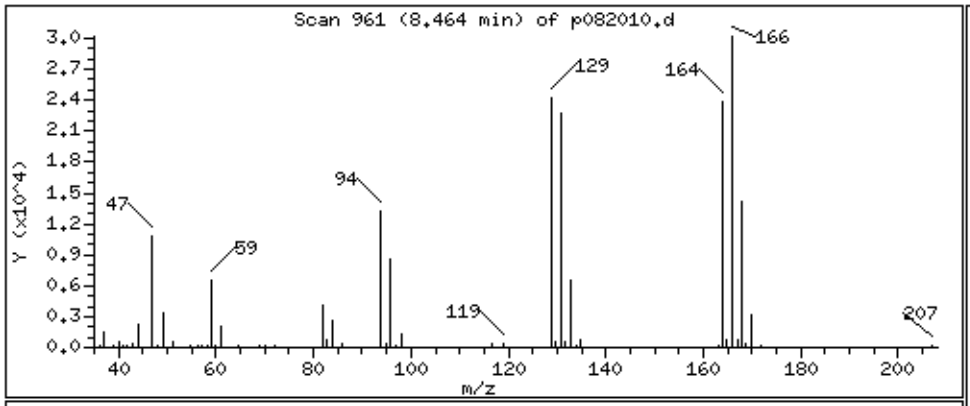
Operator: mjb

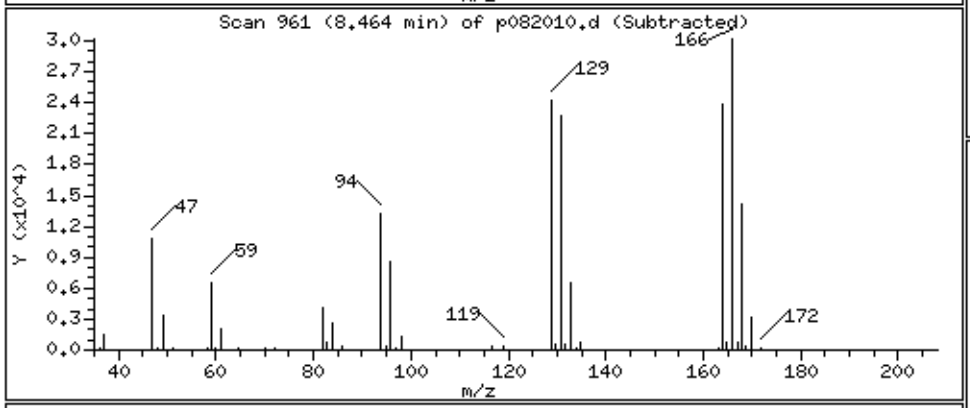
Column phase: RTX-624

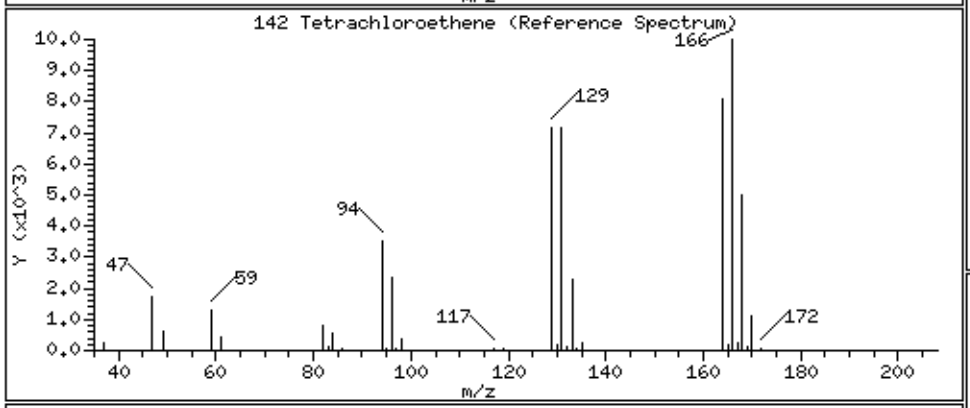
Column diameter: 0.25

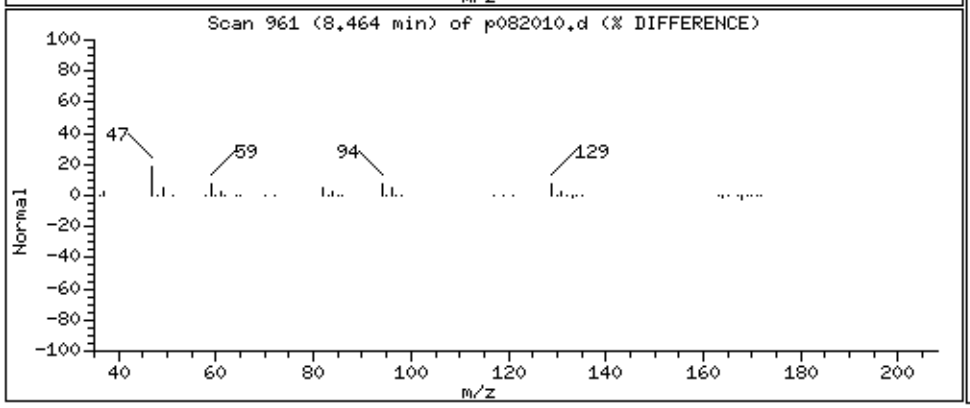
142 Tetrachloroethene

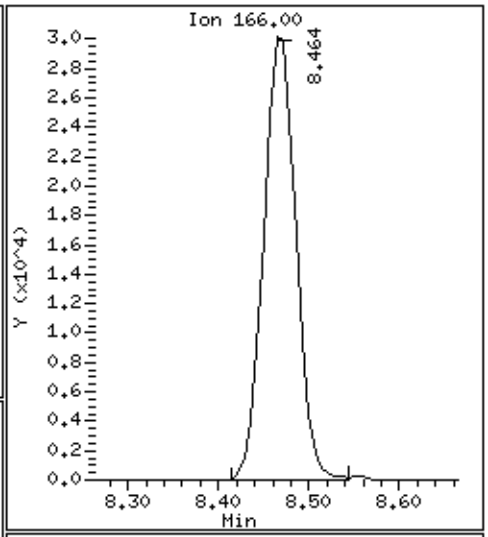
Concentration: 16.280 PPBV

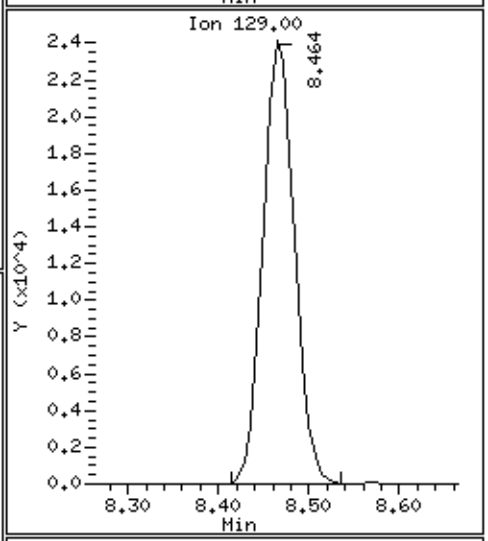


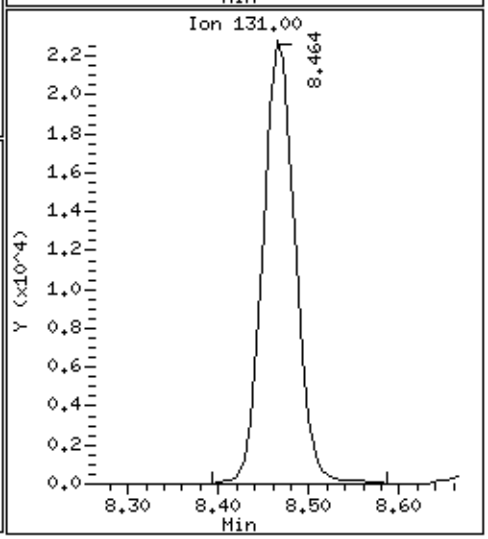












Data File: /chem/msdp.i/20AUG21.b/p082010.d

Date : 20-AUG-2021 16:56

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1L1614

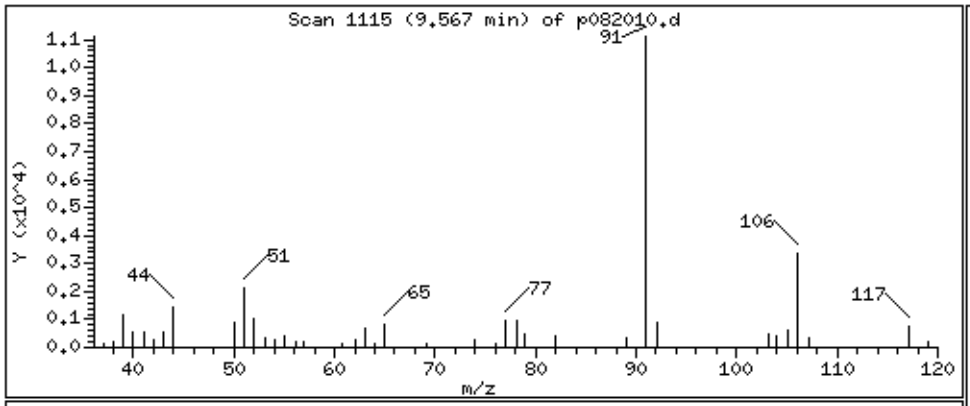
Operator: mjb

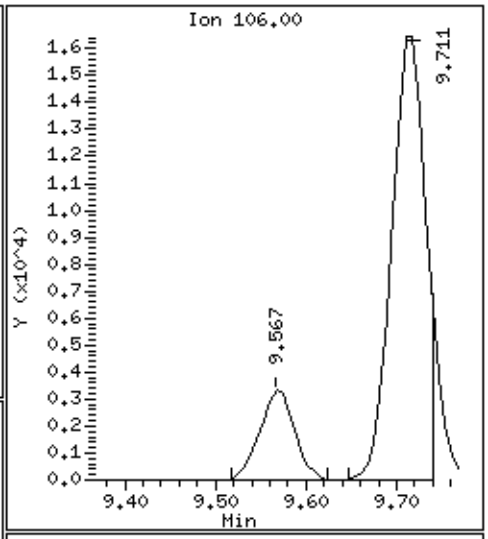
Column phase: RTX-624

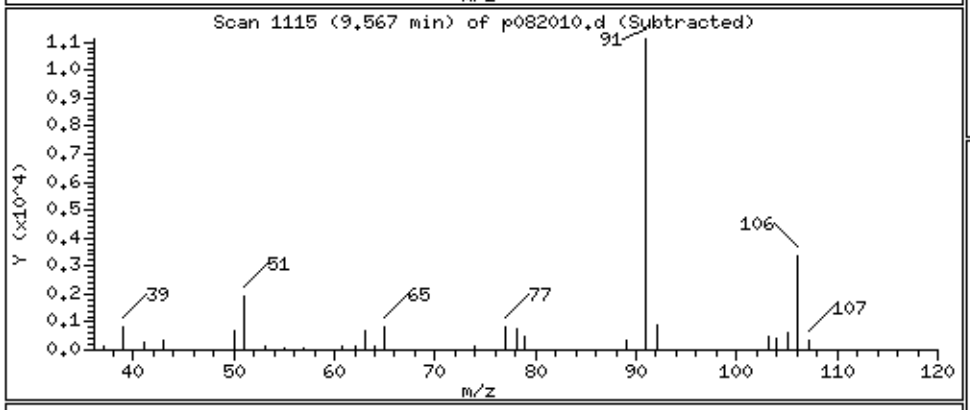
Column diameter: 0.25

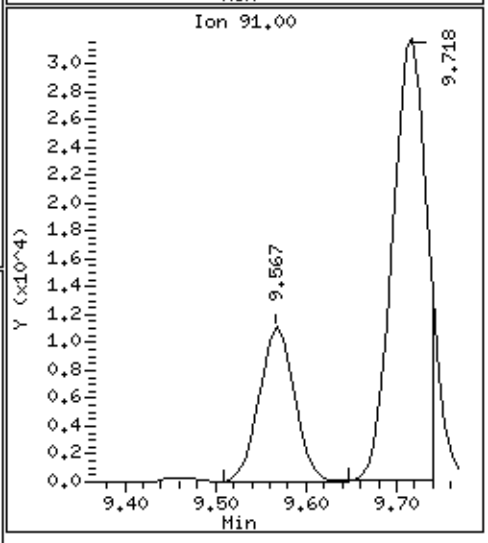
155 Ethyl Benzene

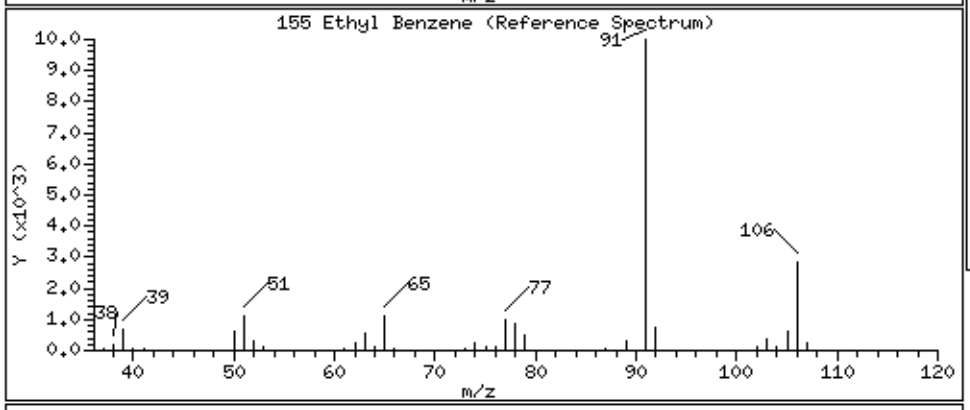
Concentration: 2.100 PPBV

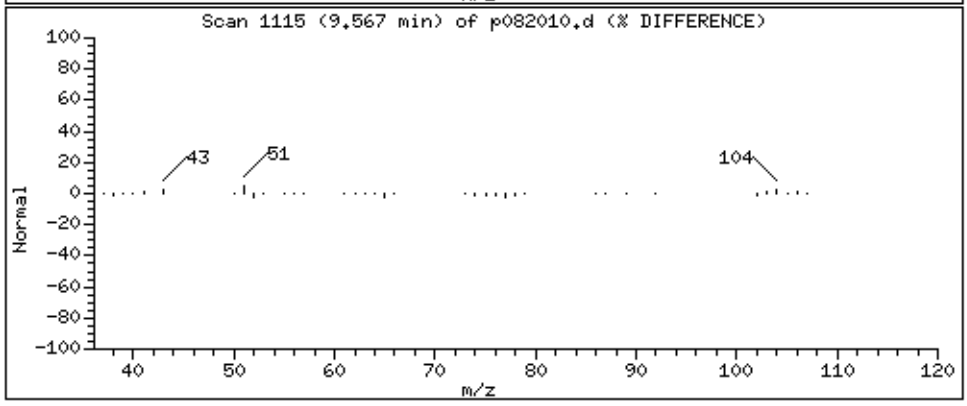












Data File: /chem/msdp.i/20AUG21.b/p082010.d

Date : 20-AUG-2021 16:56

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1L1614

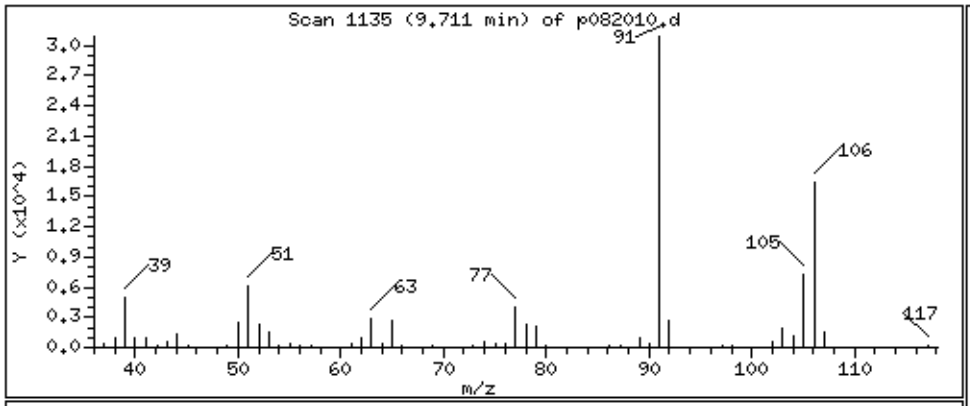
Operator: mjb

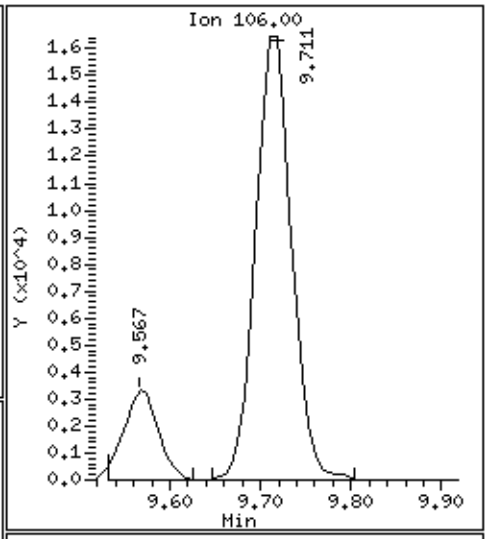
Column phase: RTX-624

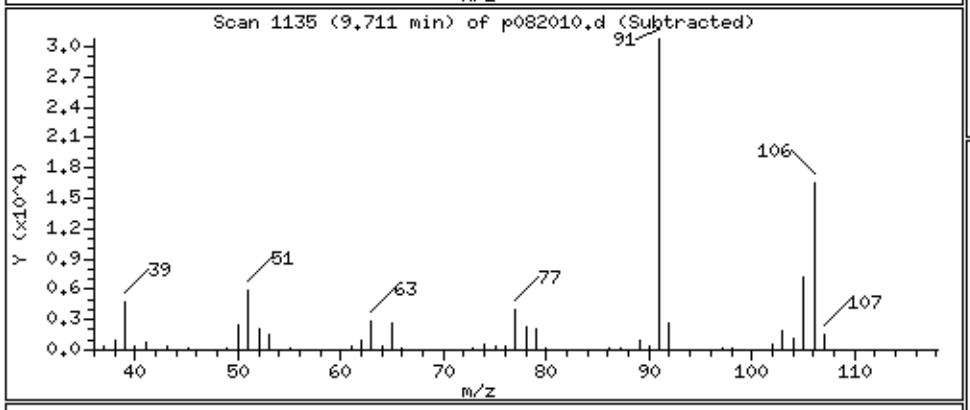
Column diameter: 0.25

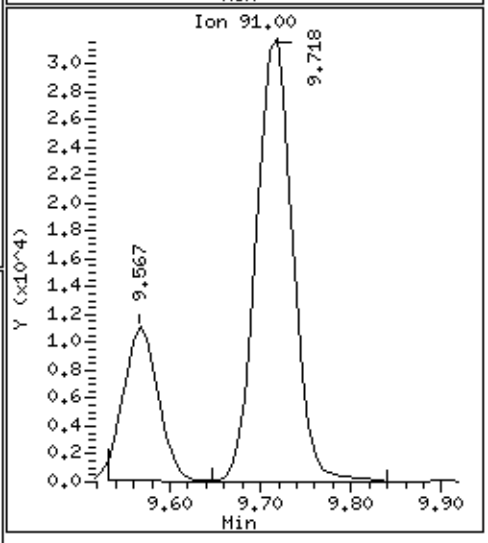
158 m,p-Xylene

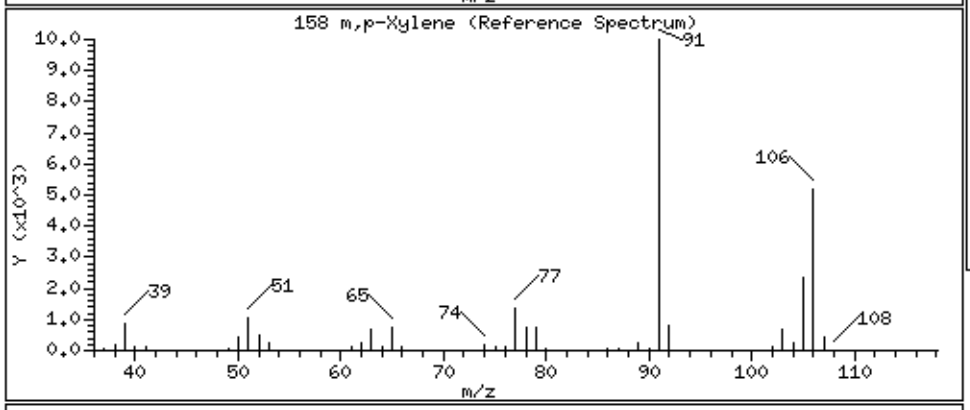
Concentration: 8.663 PPBV

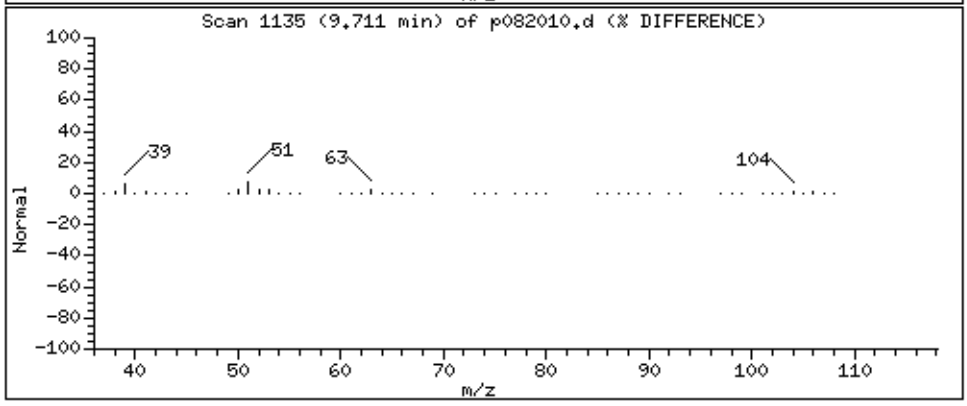












Data File: /chem/msdp.i/20AUG21.b/p082010.d

Date : 20-AUG-2021 16:56

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1L1614

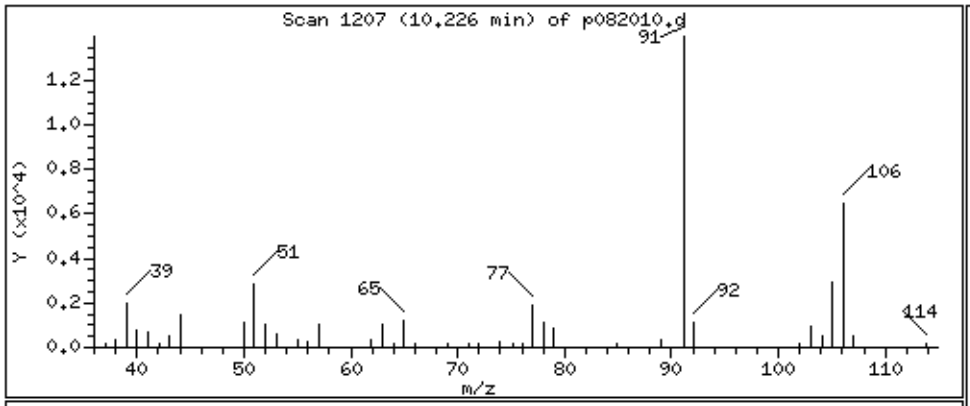
Operator: mjb

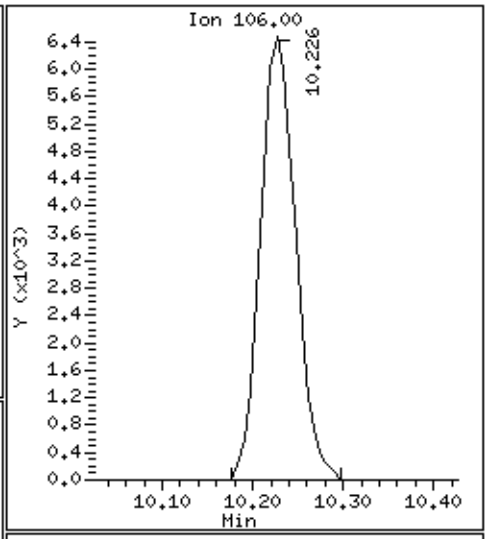
Column phase: RTX-624

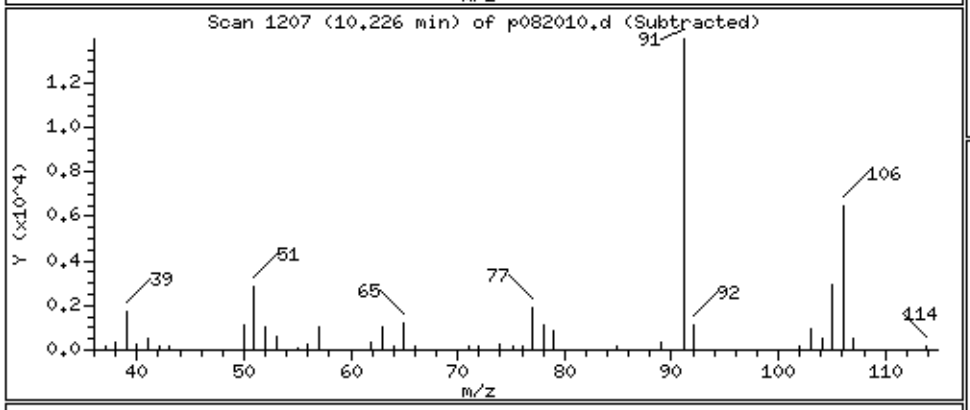
Column diameter: 0.25

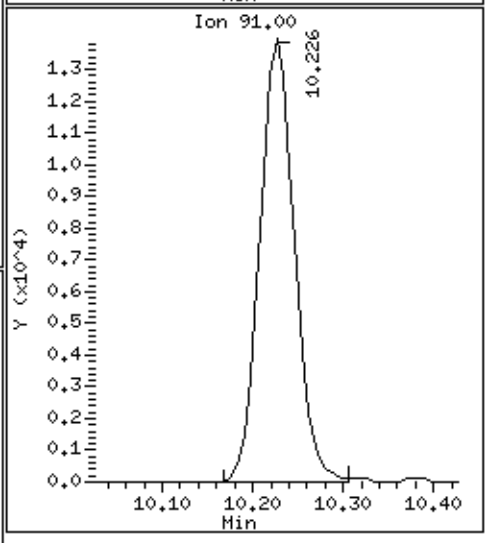
164 o-Xylene

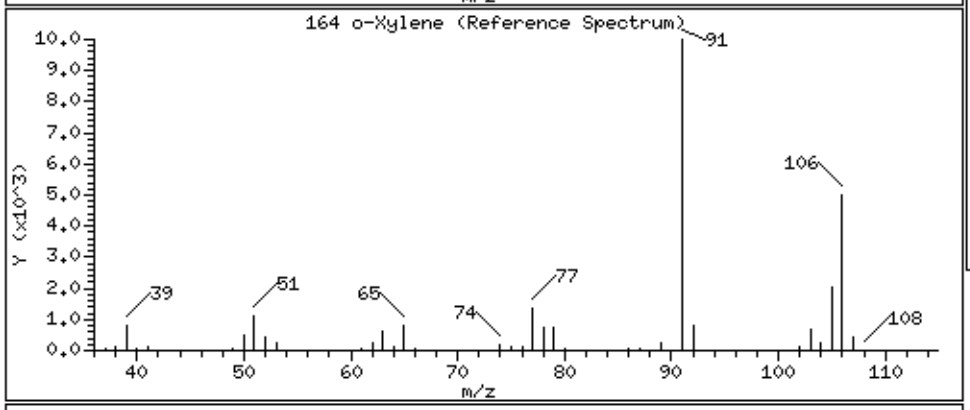
Concentration: 3.484 PPBV

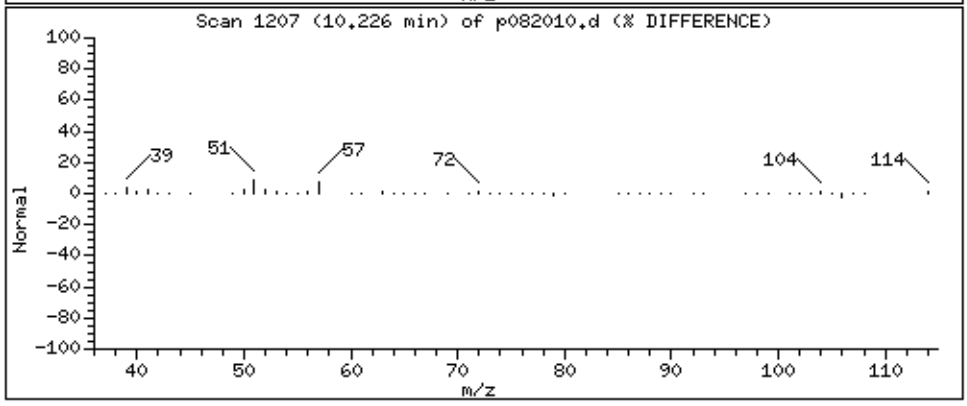












Data File: /chem/msdp.i/20AUG21.b/p082010.d

Date : 20-AUG-2021 16:56

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1L1614

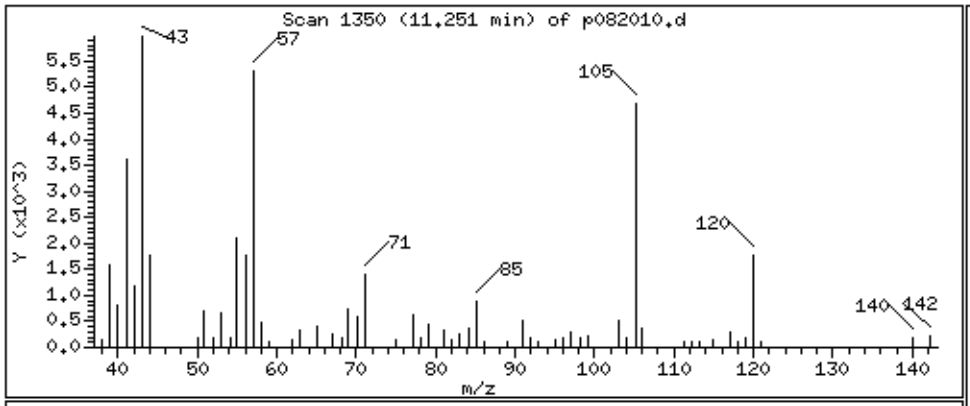
Operator: mjb

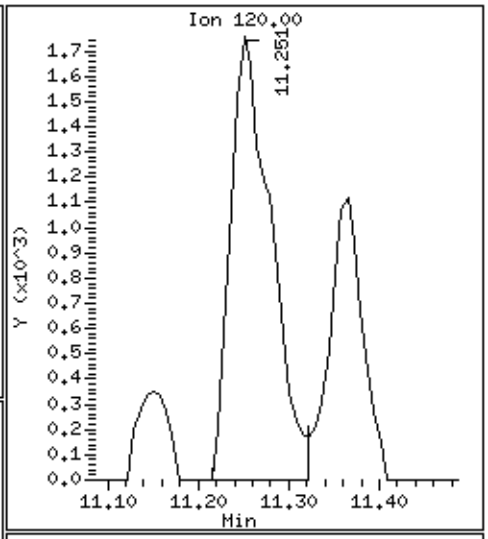
Column phase: RTX-624

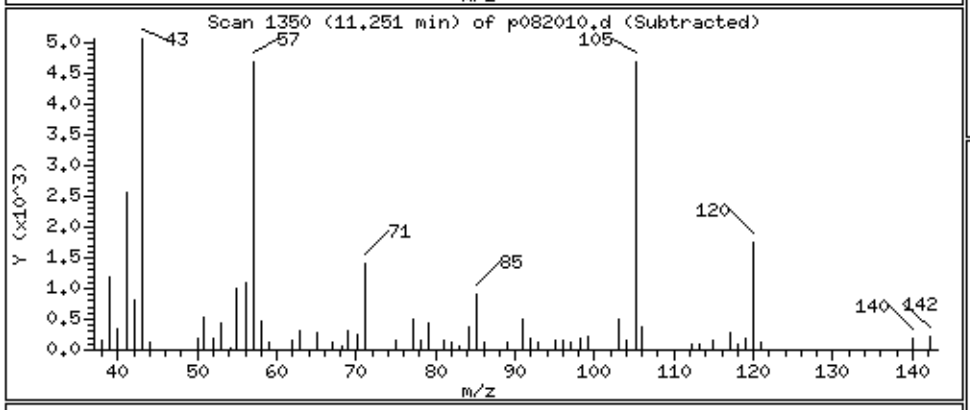
Column diameter: 0.25

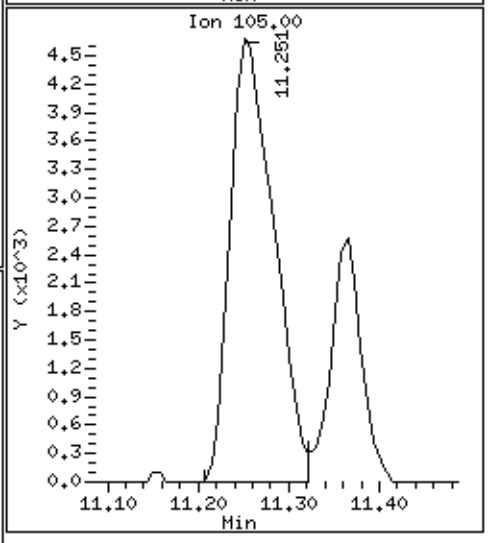
183 4-Ethyltoluene

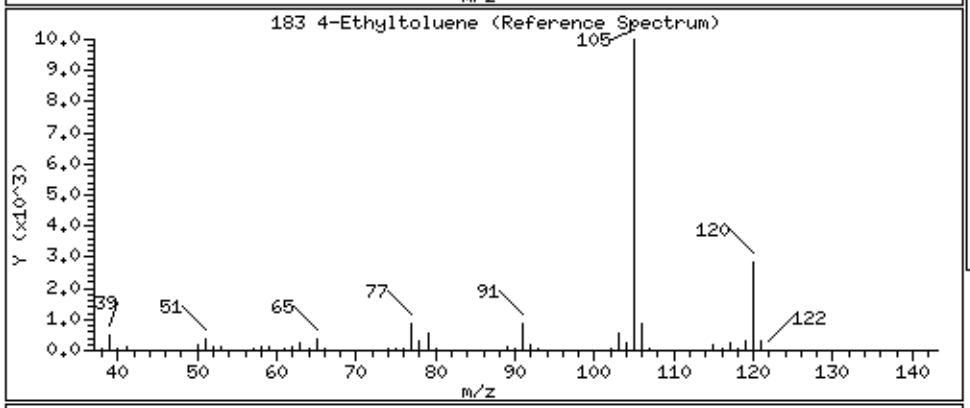
Concentration: 1.077 PPBV

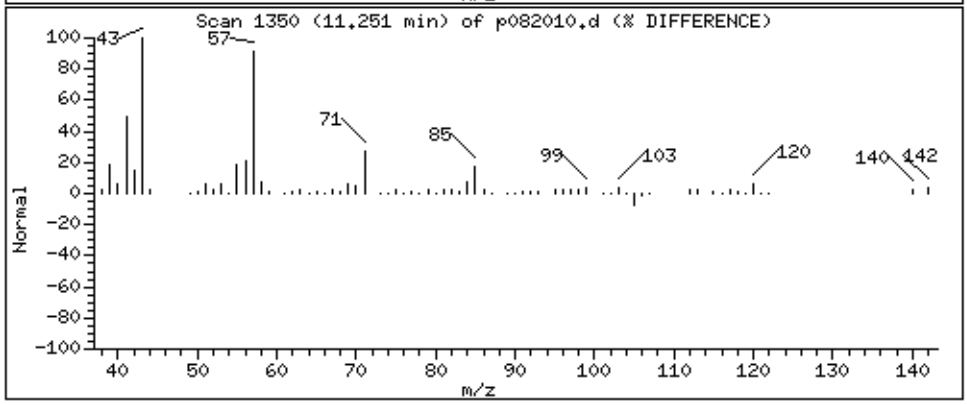












Data File: /chem/msdp.i/20AUG21.b/p082010.d

Date : 20-AUG-2021 16:56

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1L1614

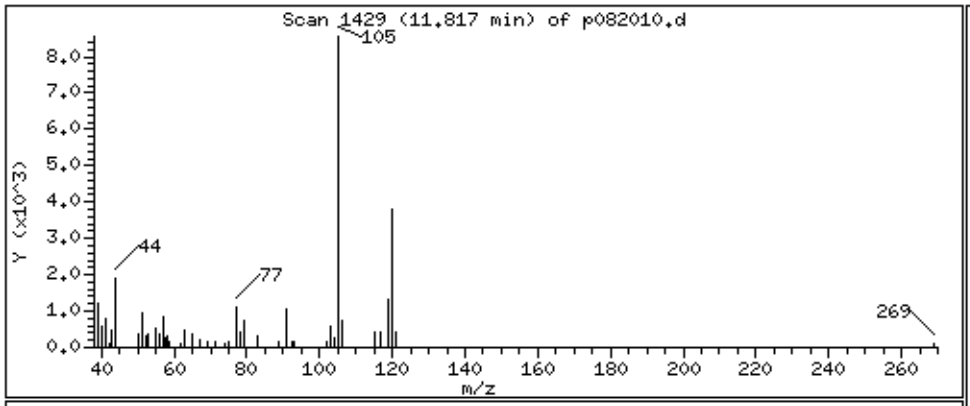
Operator: mjb

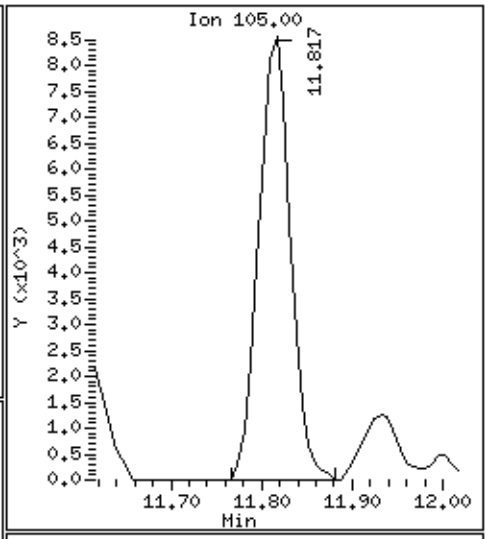
Column phase: RTX-624

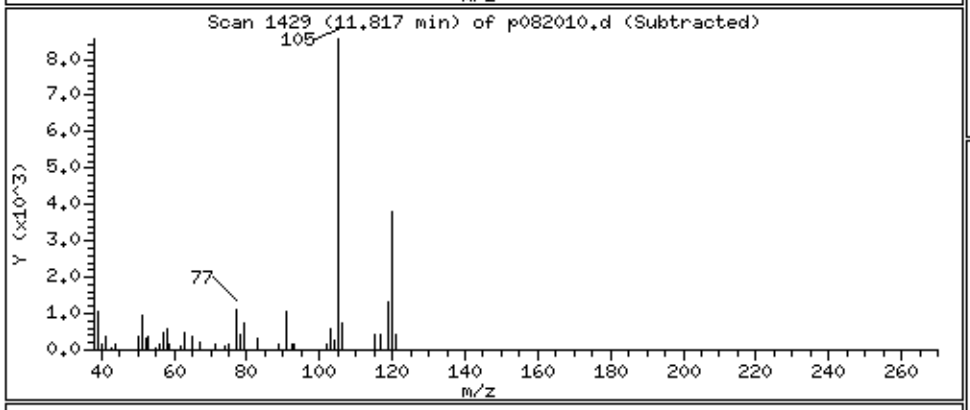
Column diameter: 0.25

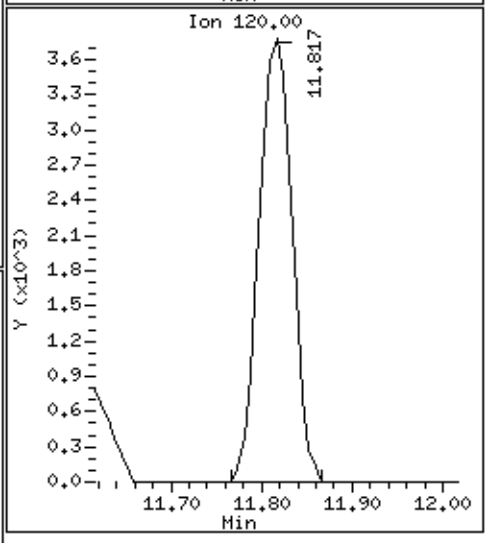
190 1,2,4-Trimethylbenzene

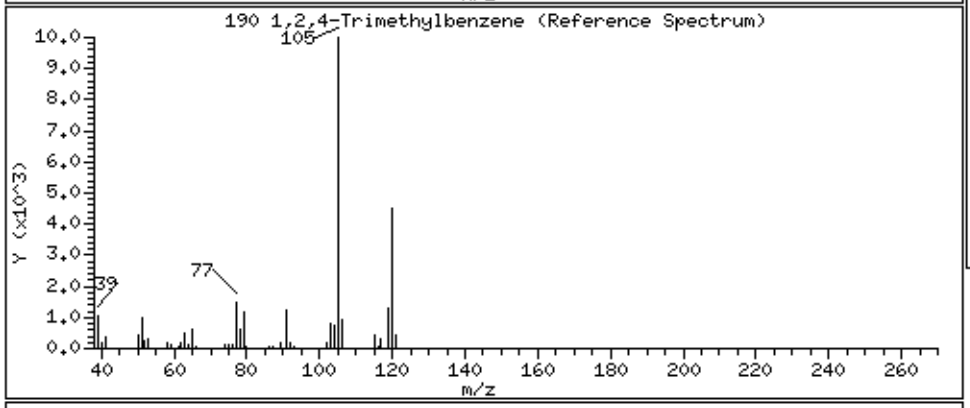
Concentration: 1.567 PPBV

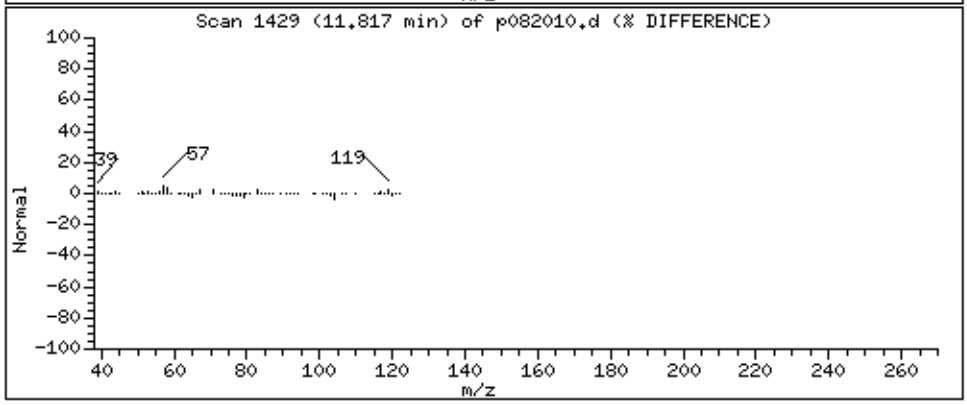












eurofins | Air Toxics

Client Sample ID: SG-VW58A-02

Lab ID#: 2108390-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p082022**	**Date of Collection:**	**8/16/21 11:13:00 AM**
Dil. Factor:	**2.19**	**Date of Analysis:**	**8/21/21 12:44 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1,2-Tetrachloroethane	4.4	Not Detected	30	Not Detected
1,1,1-Trichloroethane	1.1	Not Detected	6.0	Not Detected
1,1,2,2-Tetrachloroethane	1.1	Not Detected	7.5	Not Detected
1,1,2-Trichloroethane	1.1	Not Detected	6.0	Not Detected
1,1-Dichloroethane	1.1	Not Detected	4.4	Not Detected
1,1-Dichloroethene	1.1	Not Detected	4.3	Not Detected
1,1-Difluoroethane	4.4	Not Detected	12	Not Detected
1,2,3-Trichloropropane	4.4	Not Detected	26	Not Detected
1,2,4-Trichlorobenzene	4.4	Not Detected	32	Not Detected
1,2,4-Trimethylbenzene	1.1	Not Detected	5.4	Not Detected
1,2-Dibromo-3-chloropropane	4.4	Not Detected	42	Not Detected
1,2-Dibromoethane (EDB)	1.1	Not Detected	8.4	Not Detected
1,2-Dichlorobenzene	1.1	Not Detected	6.6	Not Detected
1,2-Dichloroethane	1.1	Not Detected	4.4	Not Detected
1,2-Dichloropropane	1.1	Not Detected	5.1	Not Detected
1,3,5-Trimethylbenzene	1.1	Not Detected	5.4	Not Detected
1,3-Butadiene	1.1	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	1.1	Not Detected	6.6	Not Detected
1,4-Dichlorobenzene	1.1	Not Detected	6.6	Not Detected
1,4-Dioxane	4.4	Not Detected	16	Not Detected
2,2,4-Trimethylpentane	1.1	Not Detected	5.1	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.4	Not Detected	13	Not Detected
2-Hexanone	4.4	Not Detected	18	Not Detected
2-Propanol	4.4	Not Detected	11	Not Detected
3-Chloropropene	4.4	Not Detected	14	Not Detected
4-Ethyltoluene	1.1	Not Detected	5.4	Not Detected
4-Methyl-2-pentanone	1.1	1.2	4.5	4.7
Acetone	11	11	26	27
Acrolein	4.4	Not Detected	10	Not Detected
Acrylonitrile	4.4	Not Detected	9.5	Not Detected
alpha-Chlorotoluene	1.1	Not Detected	5.7	Not Detected
Benzene	1.1	Not Detected	3.5	Not Detected
Bromodichloromethane	1.1	Not Detected	7.3	Not Detected
Bromoform	1.1	Not Detected	11	Not Detected
Bromomethane	11	Not Detected	42	Not Detected
Carbon Disulfide	4.4	Not Detected	14	Not Detected
Carbon Tetrachloride	1.1	Not Detected	6.9	Not Detected
Chlorobenzene	1.1	Not Detected	5.0	Not Detected
Chloroethane	4.4	Not Detected	12	Not Detected
Chloroform	1.1	Not Detected	5.3	Not Detected
Chloromethane	11	Not Detected	23	Not Detected
cis-1,2-Dichloroethene	1.1	Not Detected	4.3	Not Detected

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Client Sample ID: SG-VW58A-02

Lab ID#: 2108390-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p082022**	**Date of Collection:**	**8/16/21 11:13:00 AM**
Dil. Factor:	**2.19**	**Date of Analysis:**	**8/21/21 12:44 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,3-Dichloropropene	1.1	Not Detected	5.0	Not Detected
Cumene	1.1	Not Detected	5.4	Not Detected
Cyclohexane	1.1	Not Detected	3.8	Not Detected
Dibromochloromethane	1.1	Not Detected	9.3	Not Detected
Dibromomethane	4.4	Not Detected	31	Not Detected
Ethanol	11	Not Detected	21	Not Detected
Ethyl Acetate	4.4	Not Detected	16	Not Detected
Ethyl Benzene	1.1	1.6	4.8	6.9
Ethyl-tert-butyl ether	4.4	Not Detected	18	Not Detected
Freon 11	1.1	Not Detected	6.2	Not Detected
Freon 12	1.1	1.4	5.4	7.0
Freon 113	1.1	Not Detected	8.4	Not Detected
Freon 114	1.1	Not Detected	7.6	Not Detected
Freon 134a	4.4	Not Detected	18	Not Detected
Heptane	1.1	Not Detected	4.5	Not Detected
Hexachlorobutadiene	4.4	Not Detected	47	Not Detected
Hexachloroethane	4.4	Not Detected	42	Not Detected
Hexane	1.1	200	3.8	700
Iodomethane	11	Not Detected	64	Not Detected
Isopropyl ether	4.4	Not Detected	18	Not Detected
m,p-Xylene	1.1	5.6	4.8	24
Methyl tert-butyl ether	4.4	Not Detected	16	Not Detected
Methylene Chloride	11	Not Detected	38	Not Detected
Naphthalene	2.2	Not Detected	11	Not Detected
o-Xylene	1.1	2.4	4.8	10
Propylbenzene	1.1	Not Detected	5.4	Not Detected
Propylene	4.4	Not Detected	7.5	Not Detected
Styrene	1.1	Not Detected	4.7	Not Detected
tert-Amyl methyl ether	4.4	Not Detected	18	Not Detected
tert-Butyl alcohol	4.4	Not Detected	13	Not Detected
Tetrachloroethene	1.1	24	7.4	160
Tetrahydrofuran	1.1	Not Detected	3.2	Not Detected
Toluene	1.1	2.5	4.1	9.4
TPH ref. to Gasoline (MW=100)	110	300	450	1200
trans-1,2-Dichloroethene	1.1	Not Detected	4.3	Not Detected
trans-1,3-Dichloropropene	1.1	Not Detected	5.0	Not Detected
Trichloroethene	1.1	Not Detected	5.9	Not Detected
Vinyl Acetate	4.4	Not Detected	15	Not Detected
Vinyl Bromide	4.4	Not Detected	19	Not Detected
Vinyl Chloride	1.1	Not Detected	2.8	Not Detected

Container Type: 1 Liter Summa Canister

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Client Sample ID: SG-VW58A-02

Lab ID#: 2108390-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p082022**	**Date of Collection:**	**8/16/21 11:13:00 AM**
Dil. Factor:	**2.19**	**Date of Analysis:**	**8/21/21 12:44 AM**

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	111	70-130
4-Bromofluorobenzene	103	70-130

US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/20AUG21.b/p082022.d
Lab Smp Id: 2108390-04A
Inj Date : 21-AUG-2021 00:44
Operator : kk Inst ID: msdp.i
Smp Info : 200ml 1L3967
Misc Info : 7.0 Hg->10 psi
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/20AUG21.b/p21q0519a.m
Meth Date : 20-Aug-2021 12:59 p5fl Quant Type: ISTD
Cal Date : 19-MAY-2021 19:45 Cal File: p051915.d
Als bottle: 4
Dil Factor: 2.19000
Integrator: HP RTE Compound Sublist: AEC25677.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE		(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 90 Bromochloromethane						CAS #: 74-97-5		
5.792	5.785 (1.000)	130	106991	25.0000			80.00- 120.00	100.00
5.785	5.785 (1.000)	128	82788				48.23- 108.23	77.38
5.785	5.778 (1.000)	49	242058				150.57- 210.57	226.24
* 108 1,4-Difluorobenzene						CAS #: 540-36-3		
6.666	6.659 (1.000)	114	379824	25.0000			80.00- 120.00	100.00
6.666	6.659 (1.000)	88	53582				0.00- 45.71	14.11
* 153 Chlorobenzene-d5						CAS #: 3114-55-4		
9.460	9.460 (1.000)	117	391102	25.0000			80.00- 120.00	100.00
9.460	9.460 (1.000)	82	199750				23.78- 83.78	51.07
$ 104 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
6.315	6.315 (1.090)	65	163703	27.7249	27.725		80.00- 120.00	100.00
6.315	6.315 (1.090)	67	77300				27.21- 87.21	47.22
$ 134 Toluene-d8						CAS #: 2037-26-5		
7.898	7.891 (1.185)	98	413178	25.0510	25.051		80.00- 120.00	100.00
7.891	7.891 (1.184)	70	45352				0.00- 40.44	10.98

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 134 Toluene-d8 (continued)							
7.891	7.891 (1.184)	100	273074			34.95- 94.95	66.09
$ 170 4-Bromofluorobenzene					CAS #: 460-00-4		
10.921	10.921 (1.154)	174	259490	25.8378	25.838	80.00- 120.00	100.00
10.921	10.914 (1.154)	95	303264			95.92- 155.92	116.87
10.921	10.921 (1.154)	176	248666			66.89- 126.89	95.83
8 Freon 12					CAS #: 75-71-8		
1.730	1.717 (0.299)	85	6245	0.65080	1.425	80.00- 120.00	100.00
1.730	1.717 (0.299)	87	1932			2.37- 62.37	30.94
47 Acetone					CAS #: 67-64-1		
3.729	3.722 (0.644)	58	14551	5.18773	11.361	80.00- 120.00	100.00
3.729	3.722 (0.644)	43	59951			302.95- 362.95	412.00
67 Hexane					CAS #: 110-54-3		
4.704	4.697 (0.812)	57	950061	90.1399	197.41	80.00- 120.00	100.00
4.696	4.697 (0.811)	43	749240			37.52- 97.52	78.86
4.696	4.697 (0.811)	86	95484			0.00- 41.48	10.05
131 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.798	7.798 (1.170)	58	3428	0.52533	1.150	80.00- 120.00	100.00
7.798	7.798 (1.170)	43	11283			242.35- 302.35	329.05
7.798	7.798 (1.170)	85	1003			3.24- 63.24	29.28
137 Toluene					CAS #: 108-88-3		
7.956	7.956 (1.193)	91	19815	1.14586	2.509	80.00- 120.00	100.00
7.956	7.956 (1.193)	92	11644			28.38- 88.38	58.77
142 Tetrachloroethene					CAS #: 127-18-4		
8.471	8.464 (0.895)	166	98701	11.0732	24.250	80.00- 120.00	100.00
8.471	8.464 (0.895)	129	76061			47.84- 107.84	77.06
8.464	8.464 (0.895)	131	75016			45.29- 105.29	76.00
155 Ethyl Benzene					CAS #: 100-41-4		
9.567	9.567 (1.011)	106	5882	0.72432	1.586	80.00- 120.00	100.00
9.567	9.567 (1.011)	91	18708			273.74- 333.74	318.06
158 m,p-Xylene					CAS #: 108-38-3		
9.718	9.718 (1.027)	106	26139	2.57004	5.628	80.00- 120.00	100.00
9.718	9.718 (1.027)	91	50104			163.73- 223.73	191.68
164 o-Xylene					CAS #: 95-47-6		
10.226	10.226 (1.081)	106	10808	1.10912	2.429	80.00- 120.00	100.00
10.233	10.226 (1.082)	91	21737			177.45- 237.45	201.11

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p082022.d
Lab Smp Id: 2108390-04A
Analysis Type: VOA
Quant Type: ISTD
Operator: kk
Method File: /chem/msdp.i/20AUG21.b/p21q0519a.m
Misc Info: 7.0 Hg->10 psi

Calibration Date: 20-AUG-2021
Calibration Time: 11:13
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	109375	65625	153125	106991	-2.18
108 1,4-Difluorobenze	406799	244079	569519	379824	-6.63
153 Chlorobenzene-d5	400841	240505	561177	391102	-2.43

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.79	5.46	6.12	5.79	0.12
108 1,4-Difluorobenze	6.66	6.33	6.99	6.67	0.11
153 Chlorobenzene-d5	9.46	9.13	9.79	9.46	-0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 24-Aug-2021 10:43

US32TAR1

RECOVERY REPORT

Client Name: Client SDG: 20AUG21
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 2108390-04A
Level: LOW Operator: kk
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT20_new.spk Quant Type: ISTD
Sublist File: AEC25677.sub
Method File: /chem/msdp.i/20AUG21.b/p21q0519a.m
Misc Info: 7.0 Hg->10 psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 104 1,2-Dichloroethan	25.000	27.725	110.90	70-130
$ 134 Toluene-d8	25.000	25.051	100.20	70-130
$ 170 4-Bromofluorobenz	25.000	25.838	103.35	70-130

Data File: /chem/msdp.i/20AUG21.b/p082022.d

Date : 21-AUG-2021 00:44

Client ID:

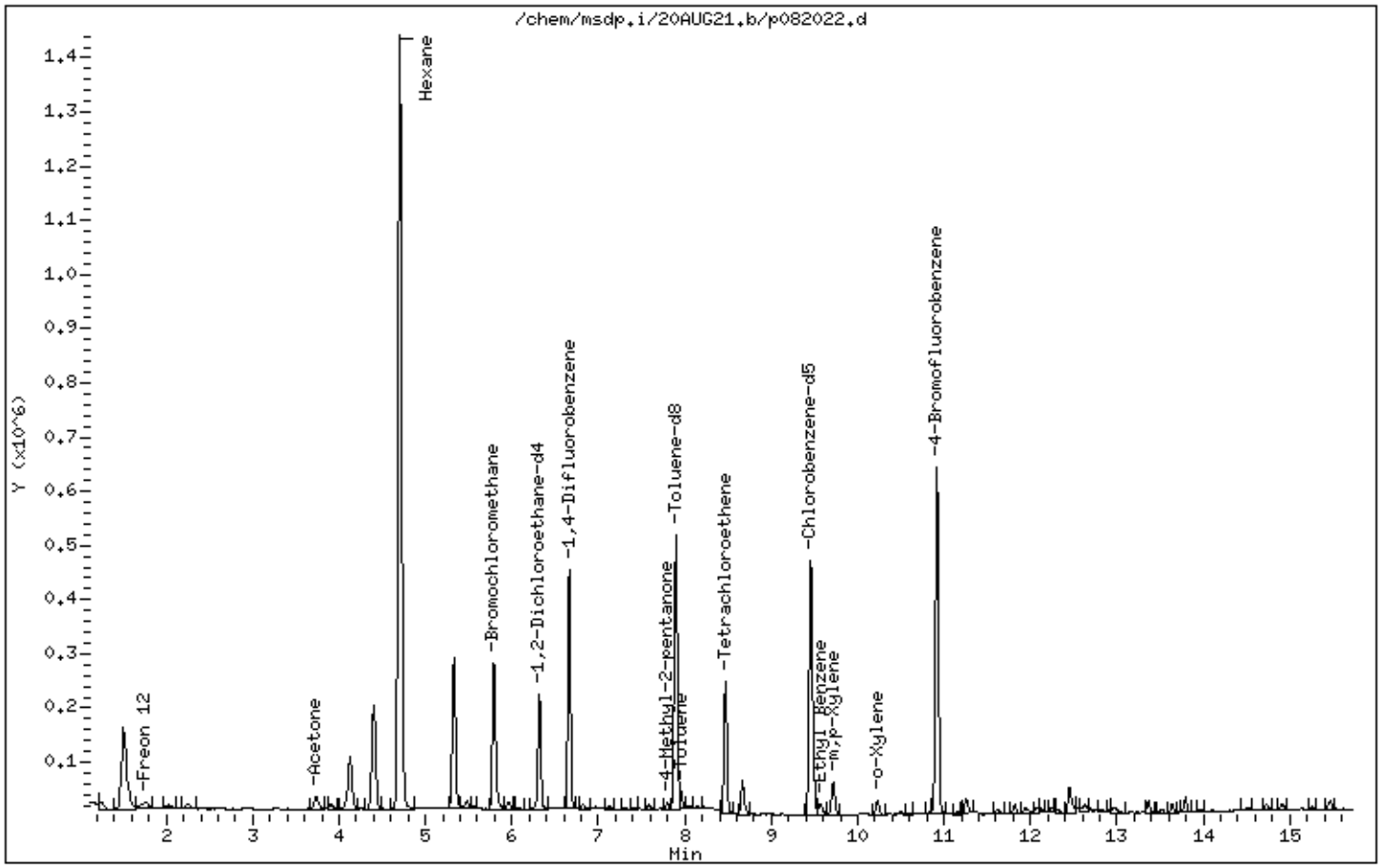
Instrument: msdp.i

Sample Info: 200ml 1L3967

Operator: kk

Column phase: RTX-624

Column diameter: 0.25



Data File: /chem/msdp.i/20AUG21.b/p082022.d

Date : 21-AUG-2021 00:44

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1L3967

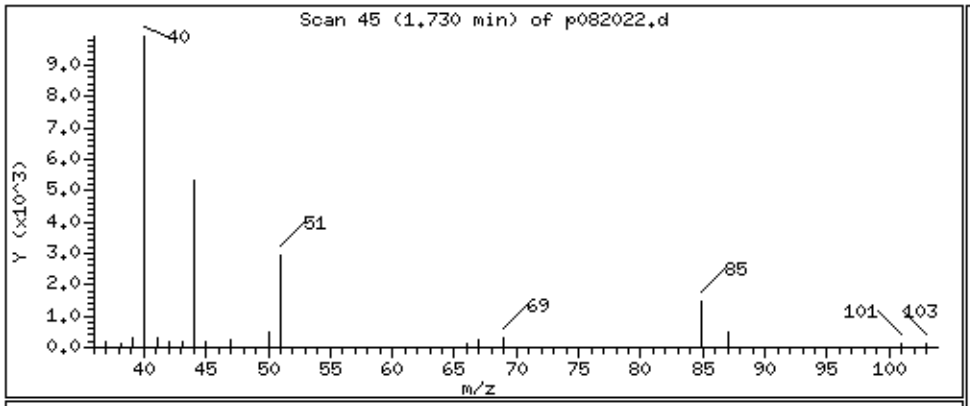
Operator: kk

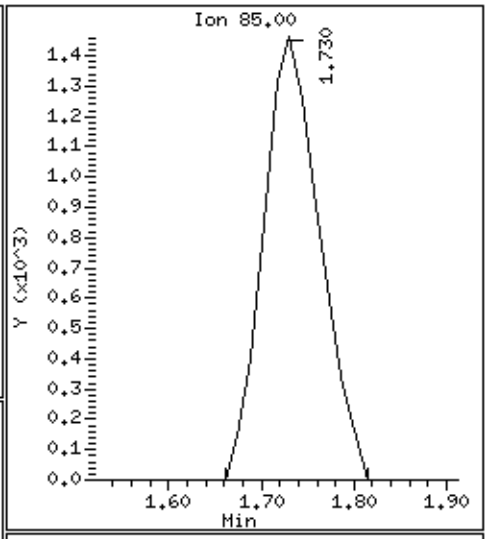
Column phase: RTX-624

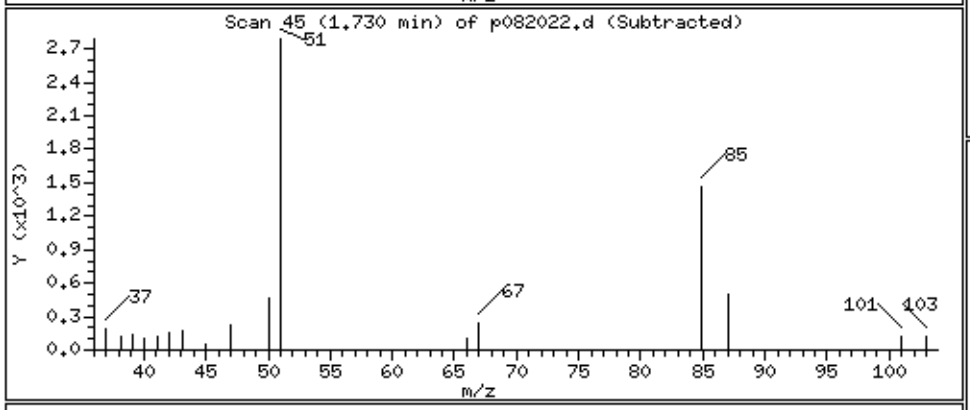
Column diameter: 0.25

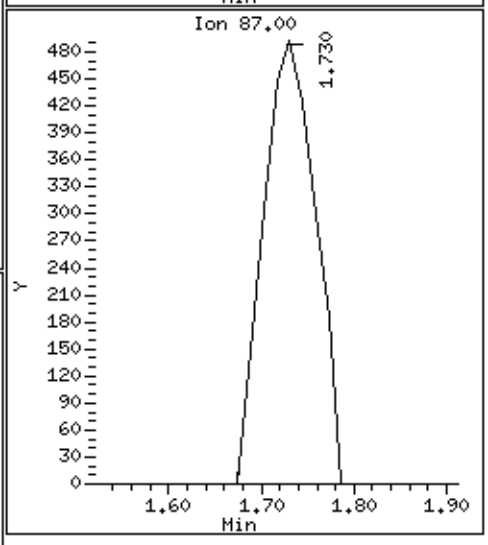
8 Freon 12

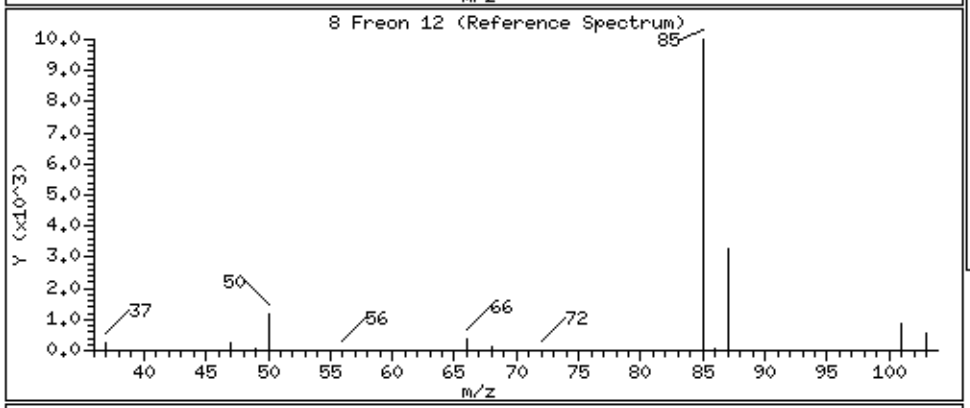
Concentration: 1.425 PPBV

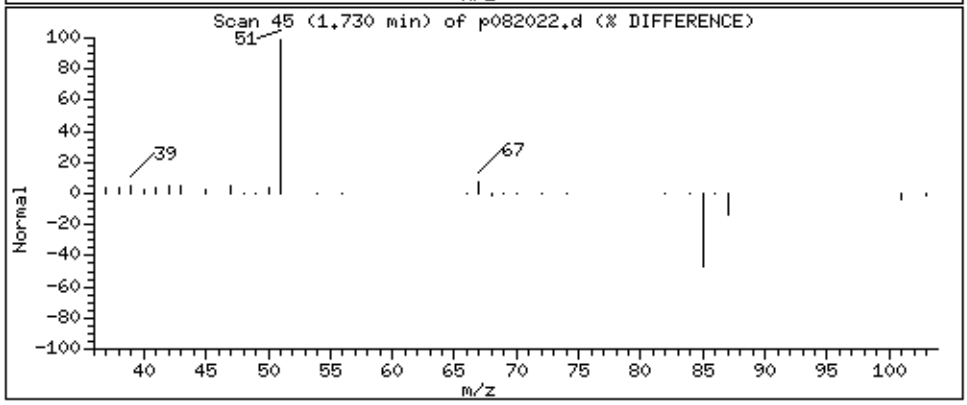












Data File: /chem/msdp.i/20AUG21.b/p082022.d

Date : 21-AUG-2021 00:44

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1L3967

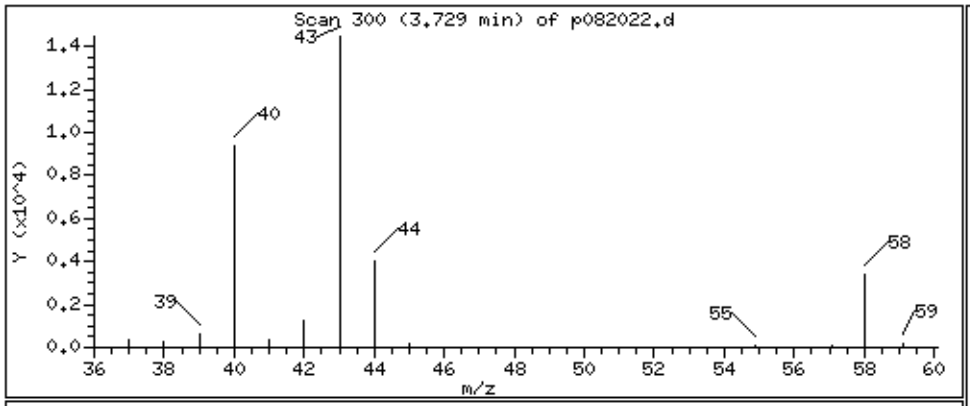
Operator: kk

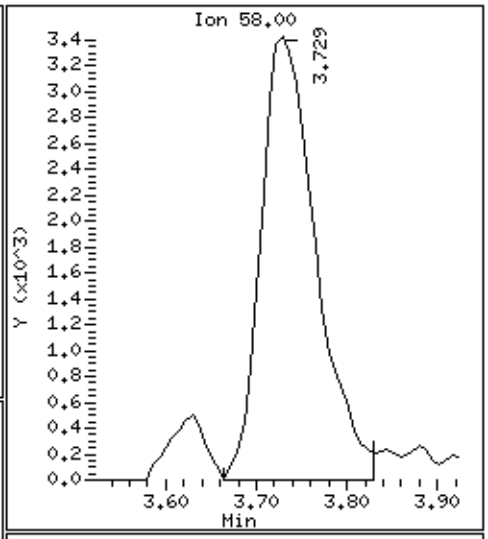
Column phase: RTX-624

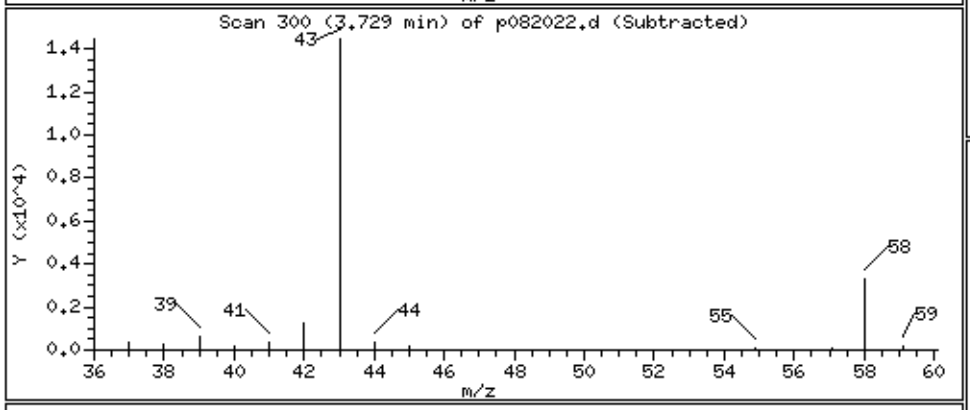
Column diameter: 0.25

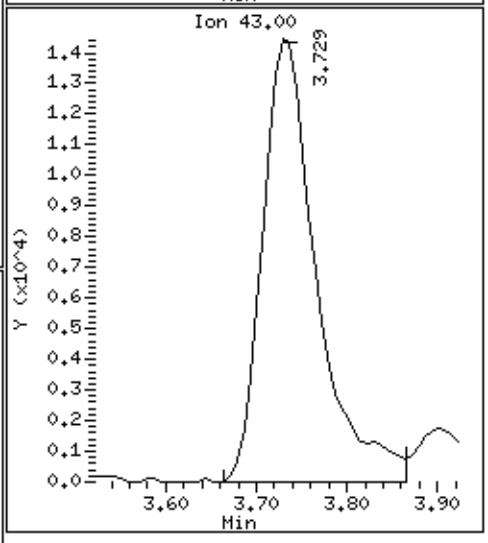
47 Acetone

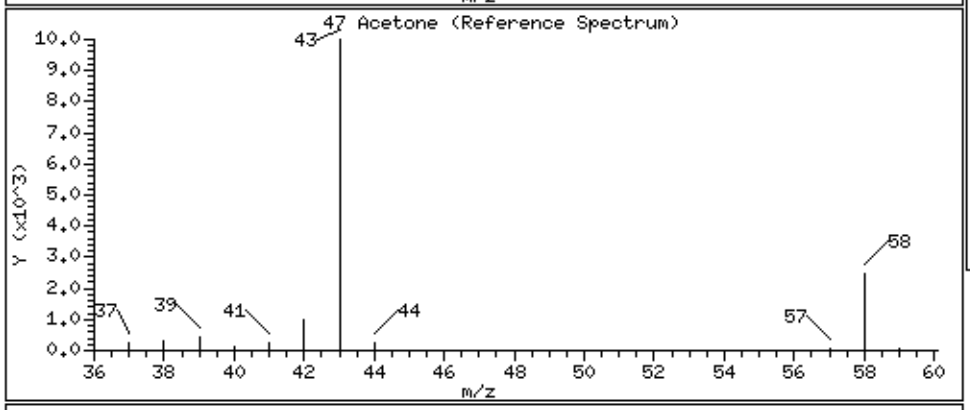
Concentration: 11.361 PPBV

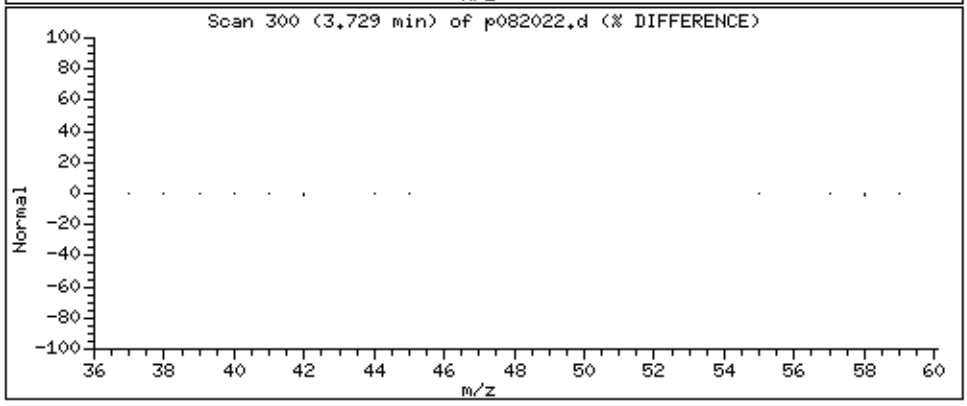












Data File: /chem/msdp.i/20AUG21.b/p082022.d

Date : 21-AUG-2021 00:44

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1L3967

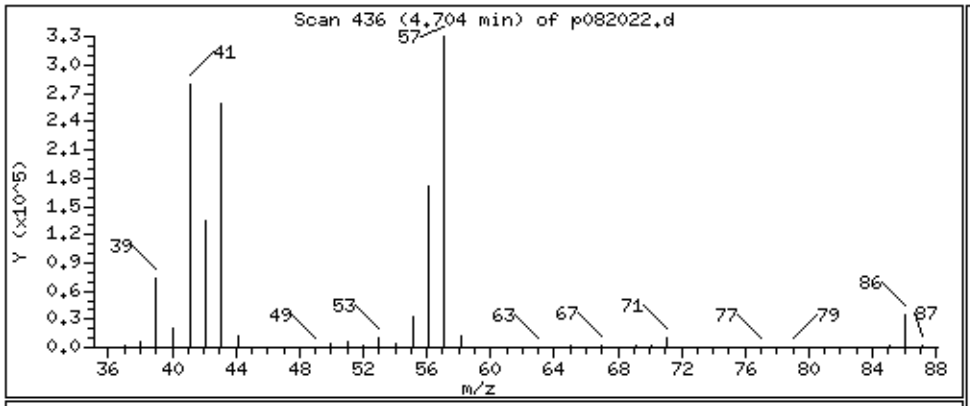
Operator: kk

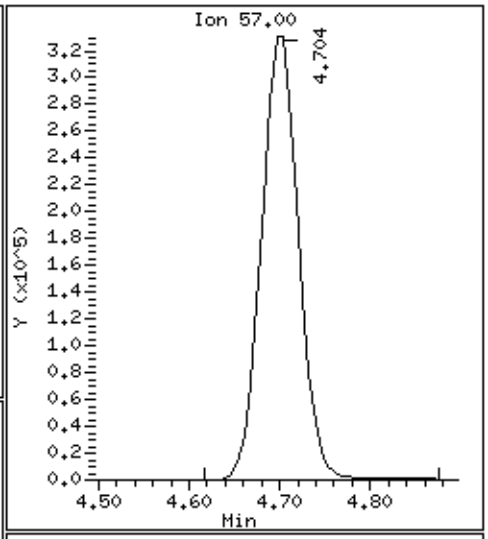
Column phase: RTX-624

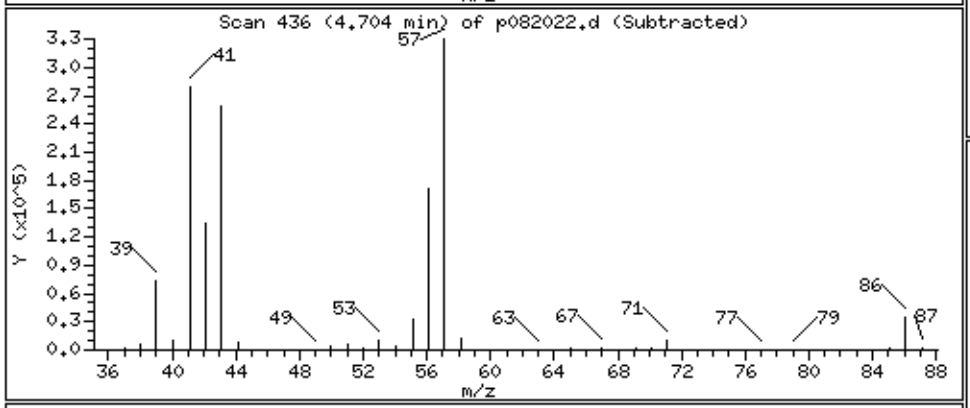
Column diameter: 0.25

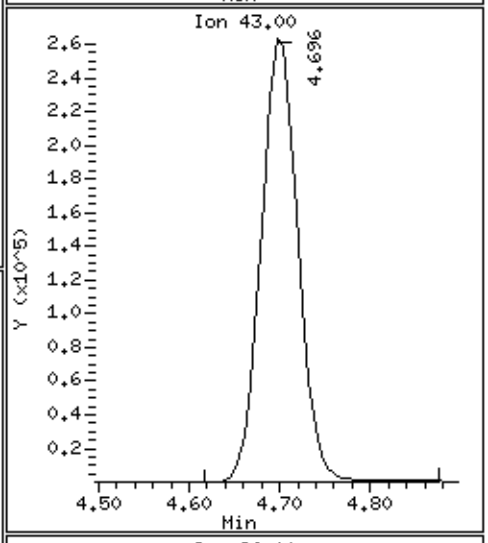
67 Hexane

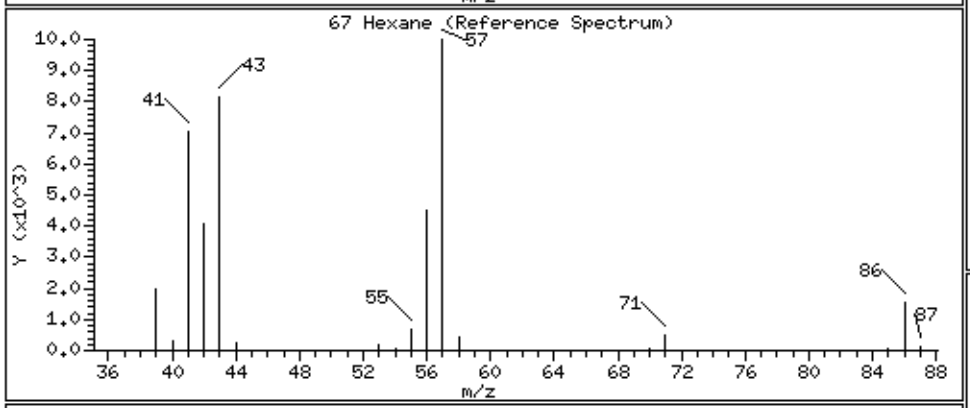
Concentration: 197.41 PPBV

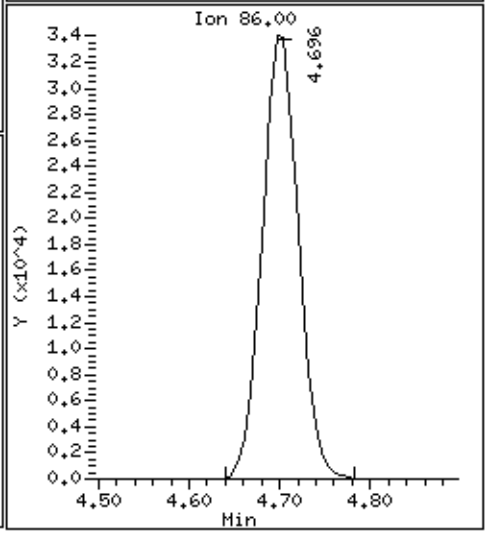


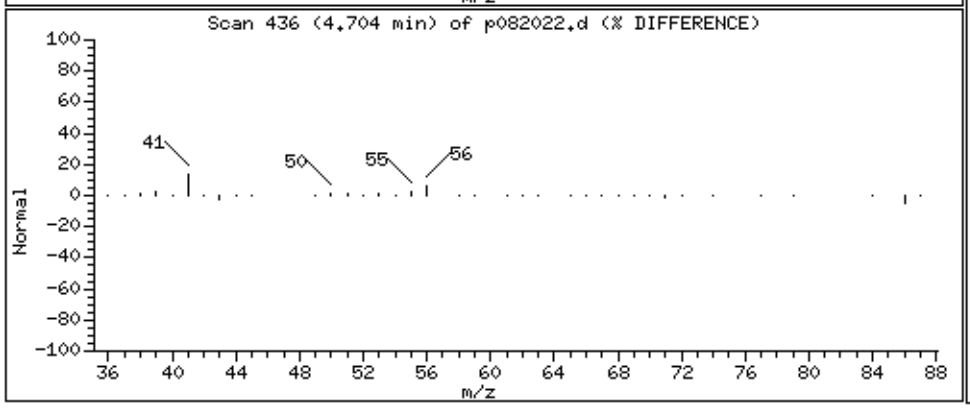












Data File: /chem/msdp.i/20AUG21.b/p082022.d

Date : 21-AUG-2021 00:44

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1L3967

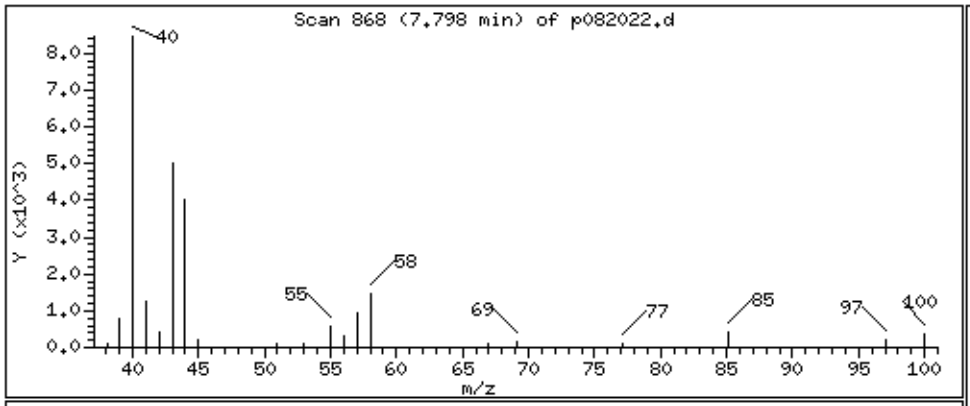
Operator: kk

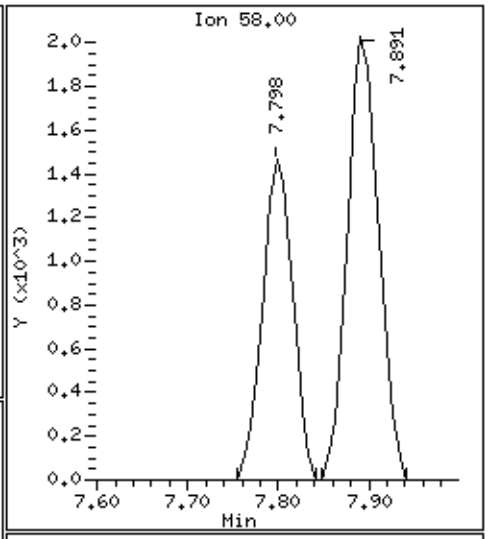
Column phase: RTX-624

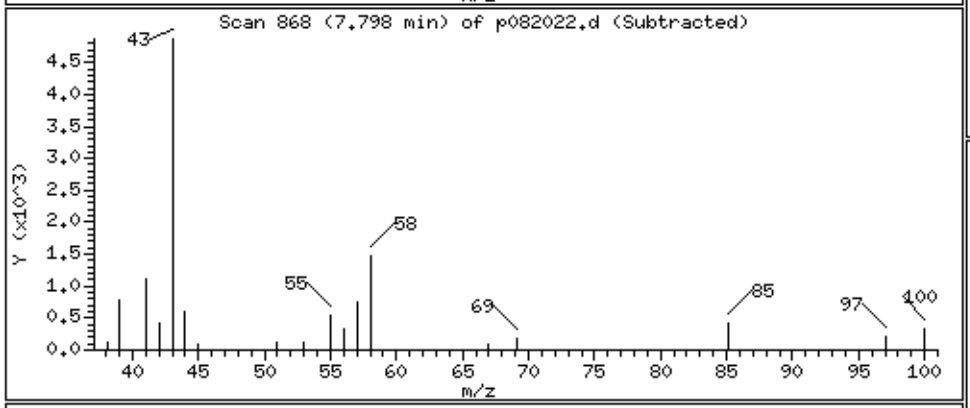
Column diameter: 0.25

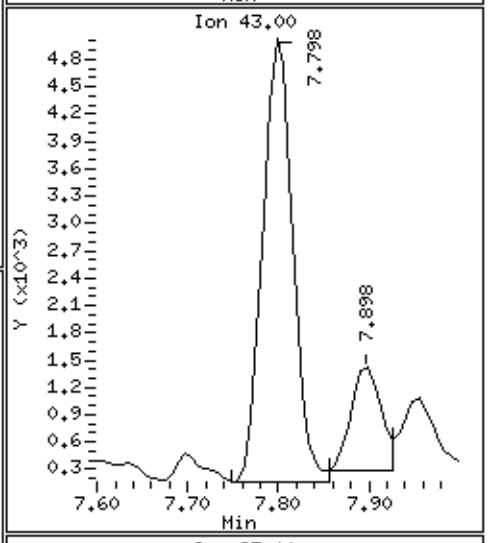
131 4-Methyl-2-pentanone

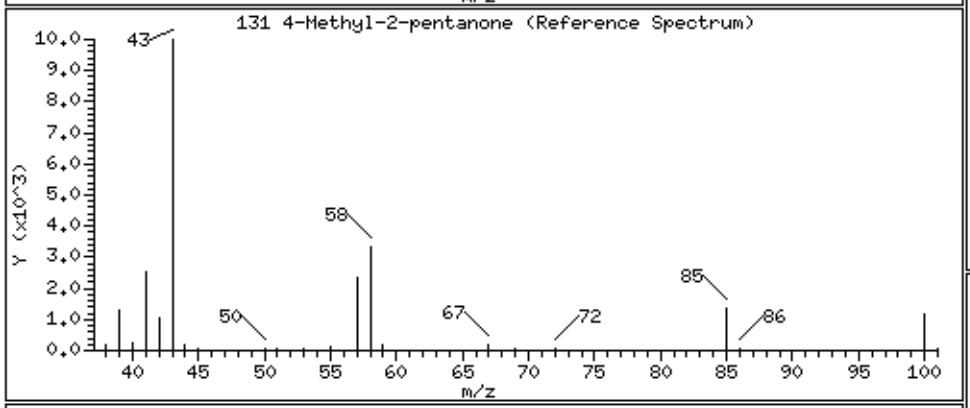
Concentration: 1.150 PPBV

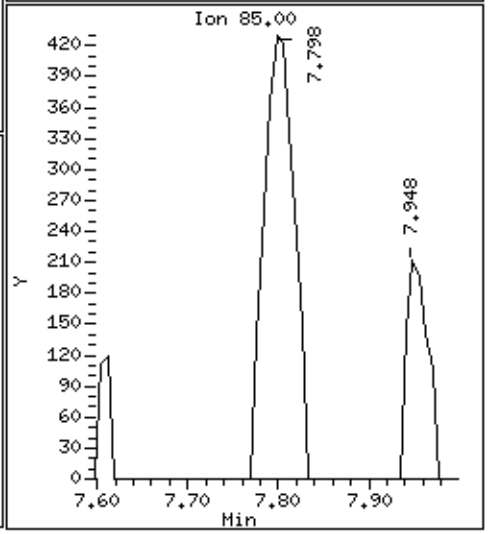


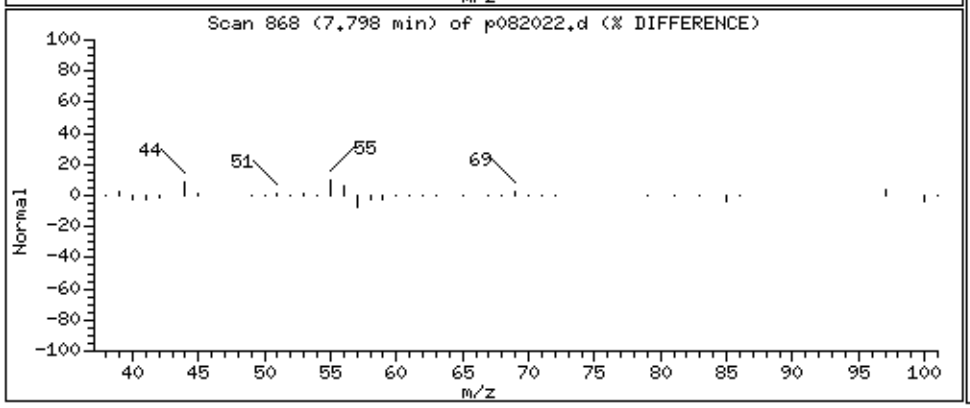












Data File: /chem/msdp.i/20AUG21.b/p082022.d

Date : 21-AUG-2021 00:44

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1L3967

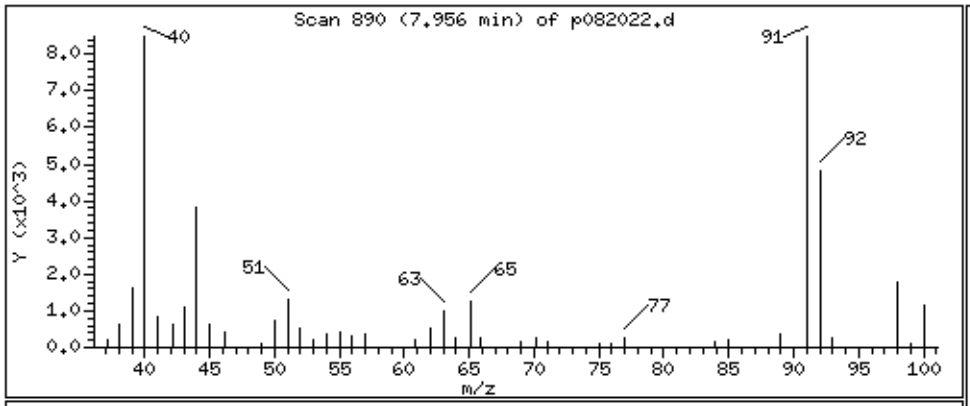
Operator: kk

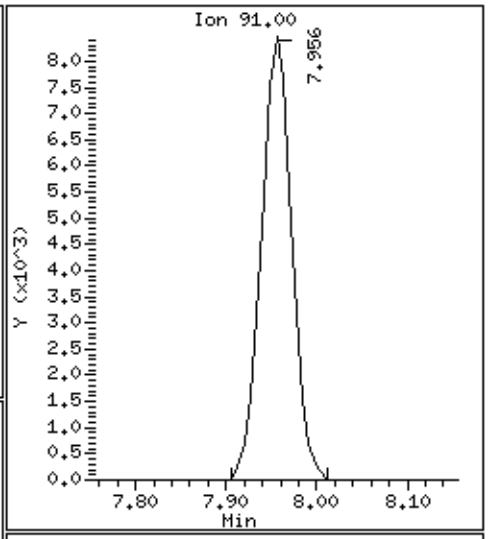
Column phase: RTX-624

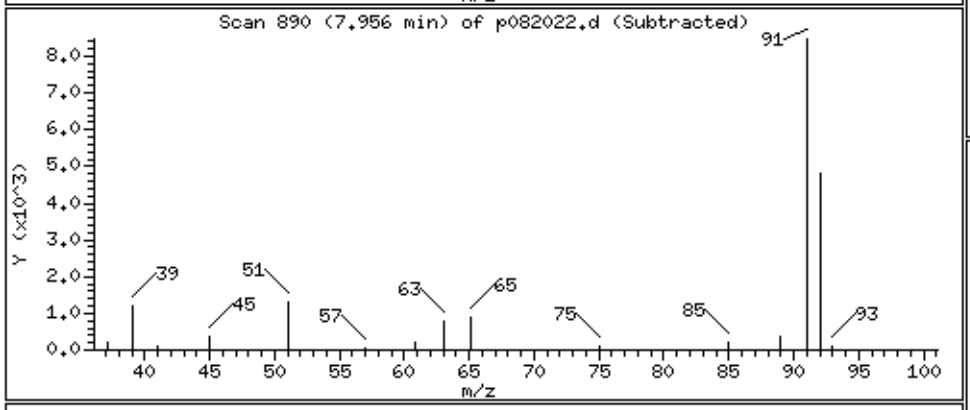
Column diameter: 0.25

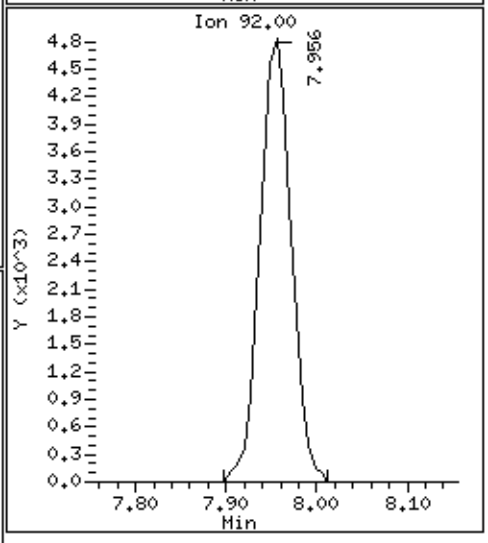
137 Toluene

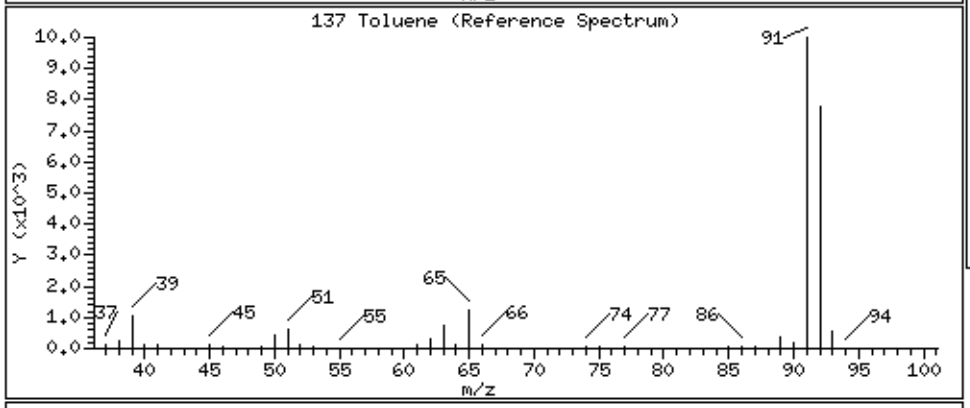
Concentration: 2.509 PPBV

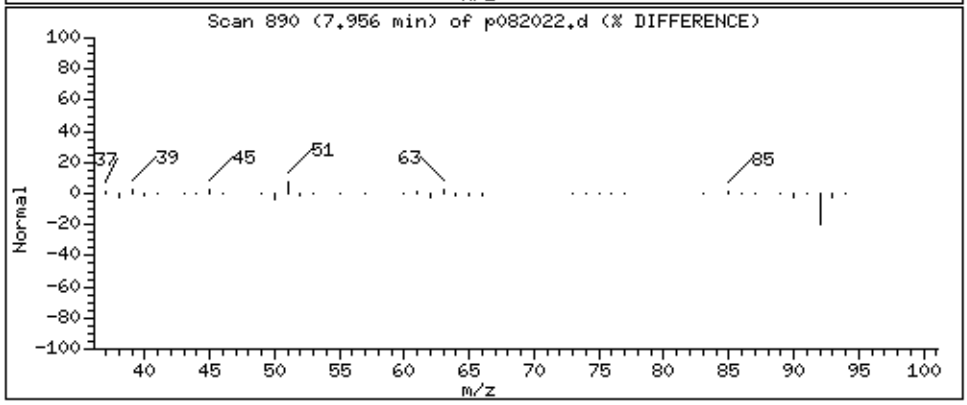












Data File: /chem/msdp.i/20AUG21.b/p082022.d

Date : 21-AUG-2021 00:44

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1L3967

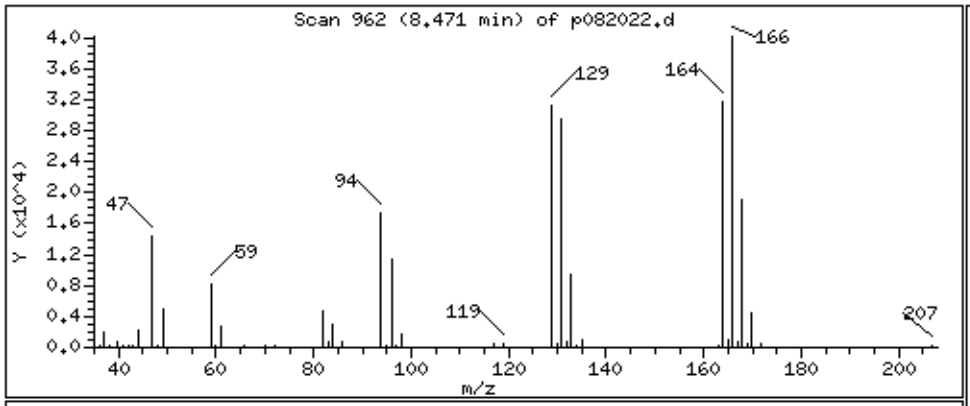
Operator: kk

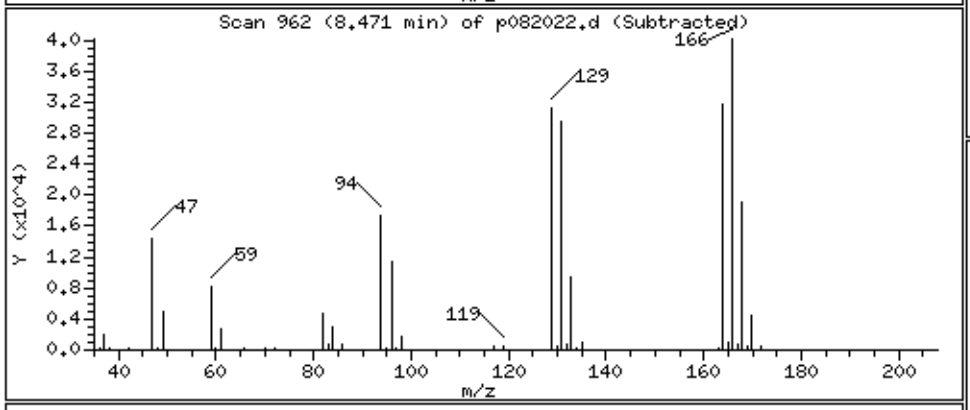
Column phase: RTX-624

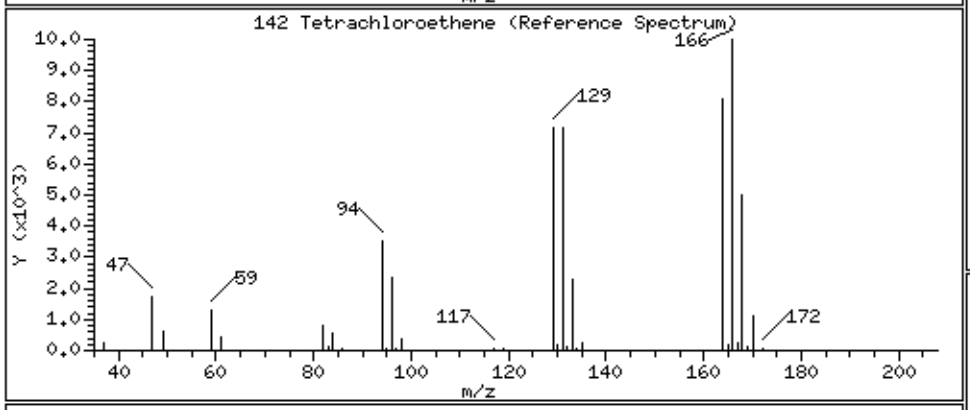
Column diameter: 0.25

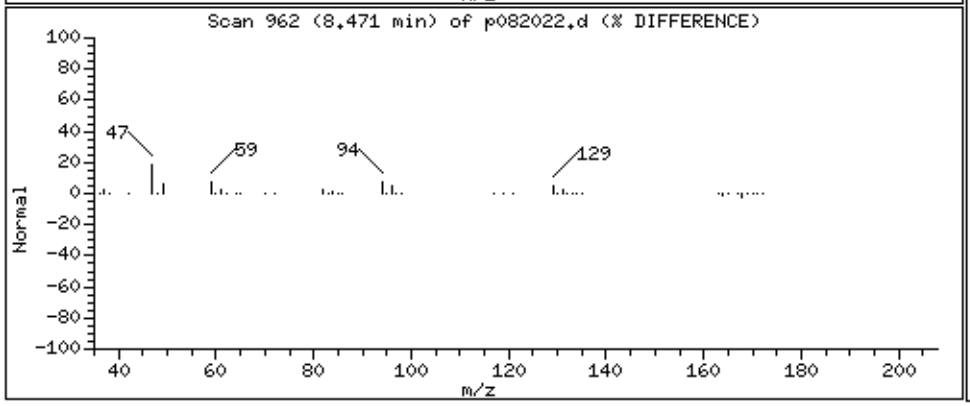
142 Tetrachloroethene

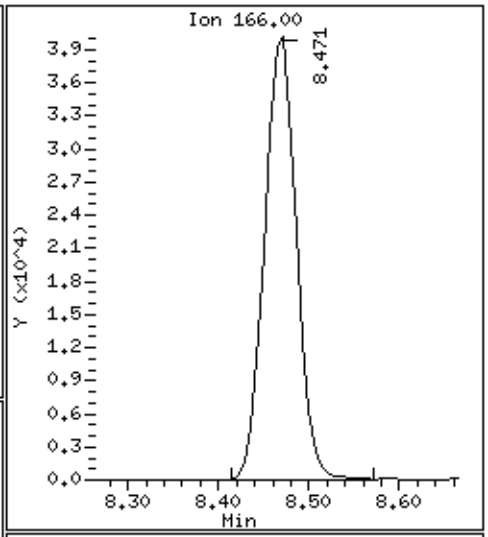
Concentration: 24.250 PPBV

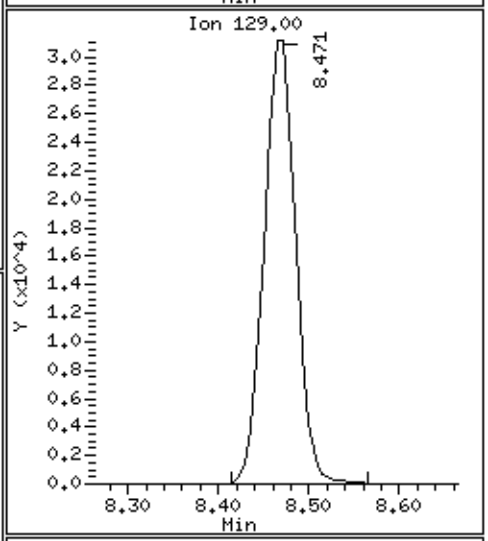


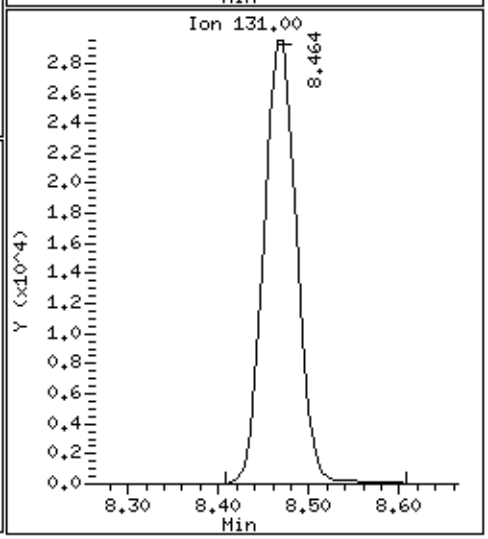












Data File: /chem/msdp.i/20AUG21.b/p082022.d

Date : 21-AUG-2021 00:44

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1L3967

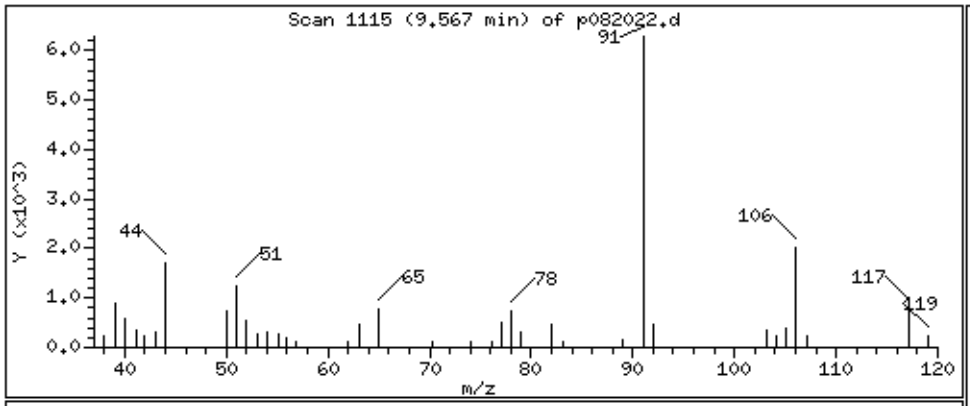
Operator: kk

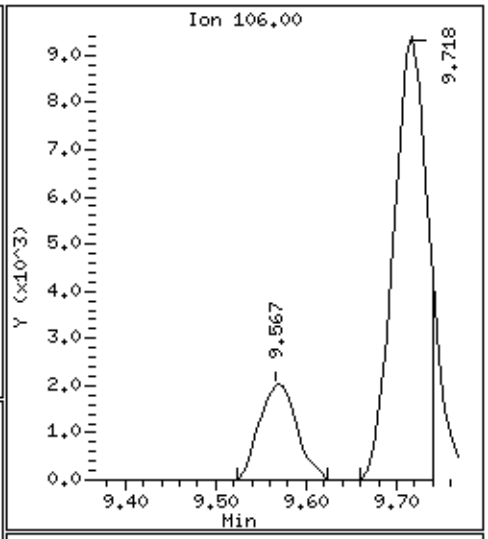
Column phase: RTX-624

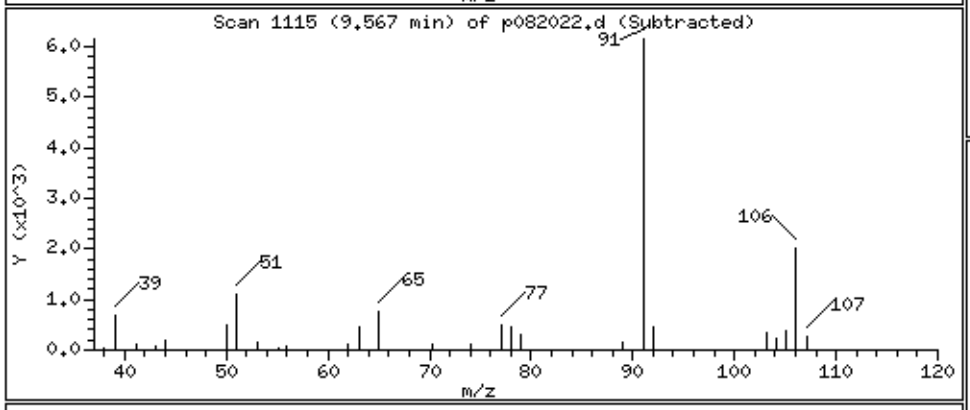
Column diameter: 0.25

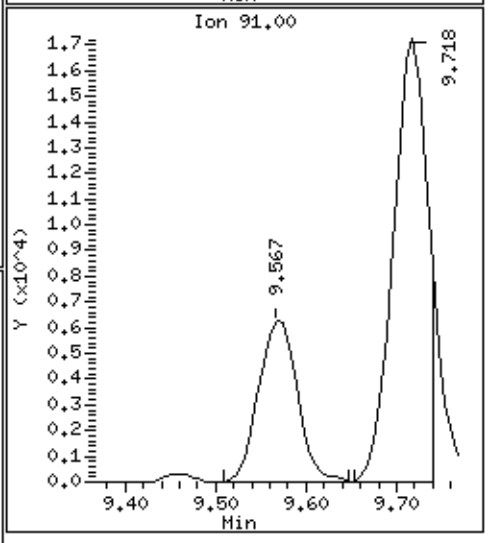
155 Ethyl Benzene

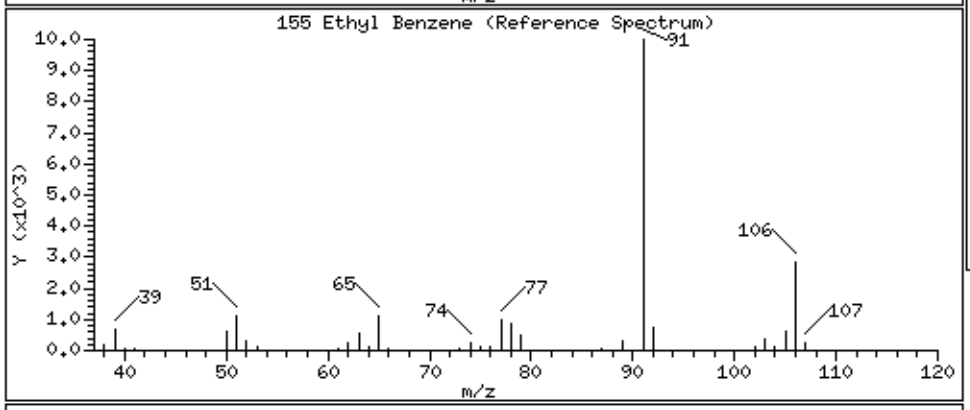
Concentration: 1.586 PPBV

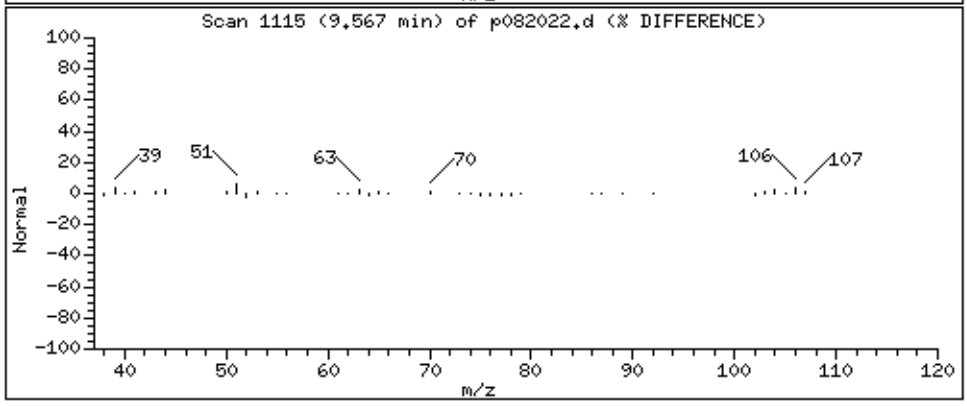












Data File: /chem/msdp.i/20AUG21.b/p082022.d

Date : 21-AUG-2021 00:44

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1L3967

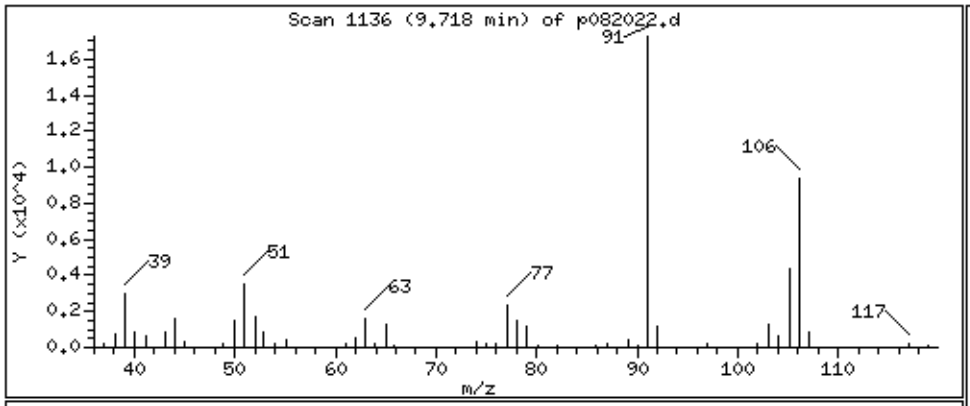
Operator: kk

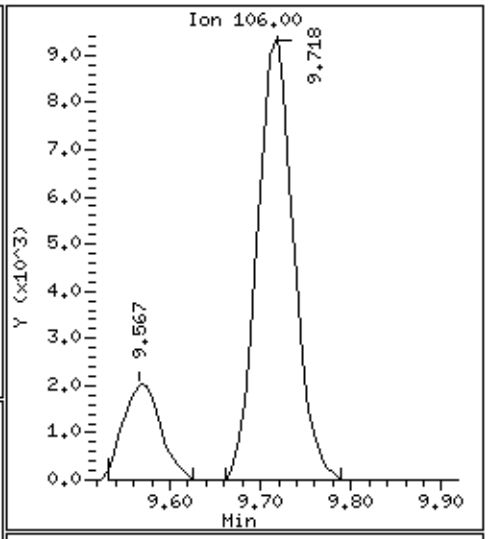
Column phase: RTX-624

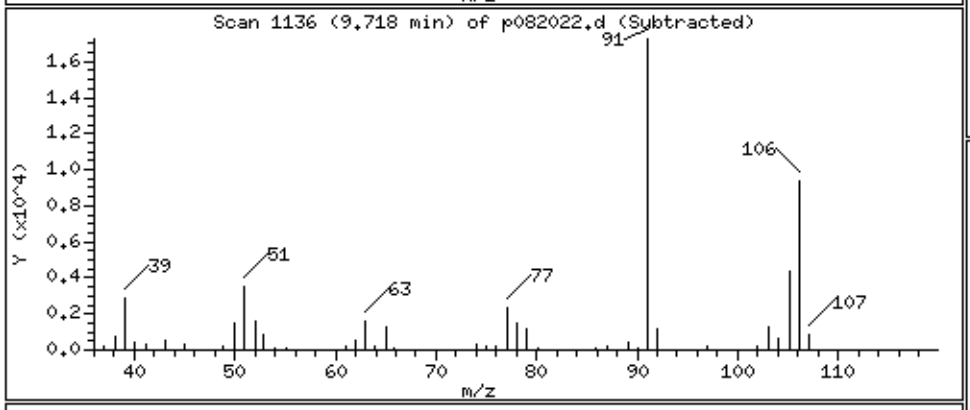
Column diameter: 0.25

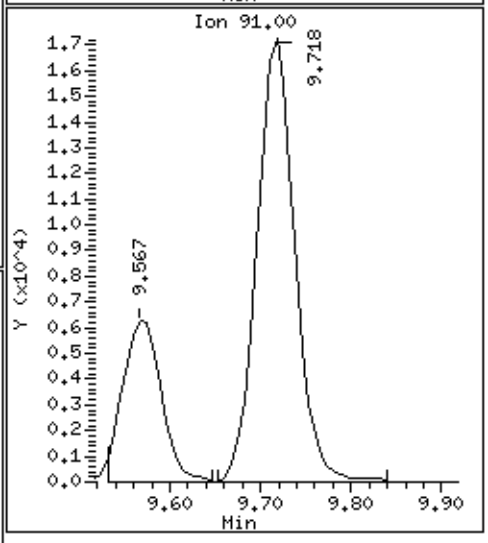
158 m,p-Xylene

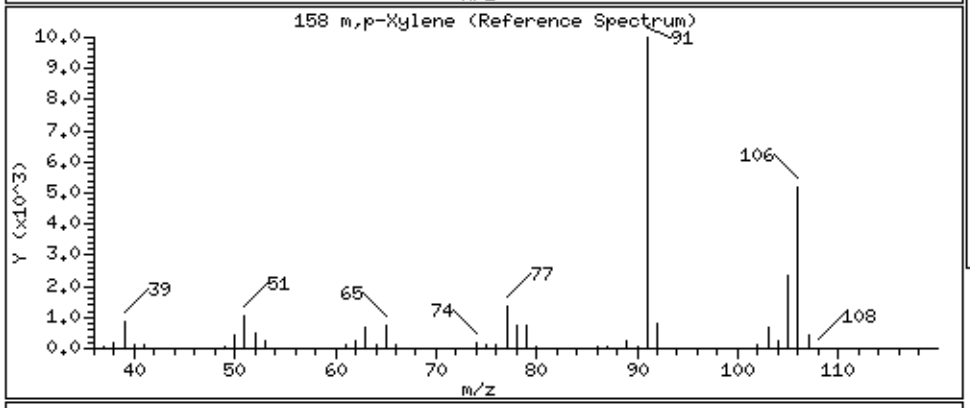
Concentration: 5.628 PPBV

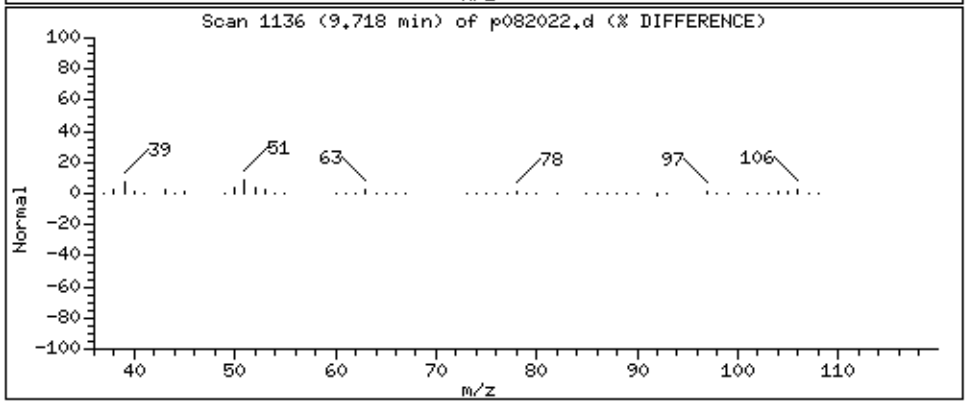












Data File: /chem/msdp.i/20AUG21.b/p082022.d

Page 10

Date : 21-AUG-2021 00:44

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1L3967

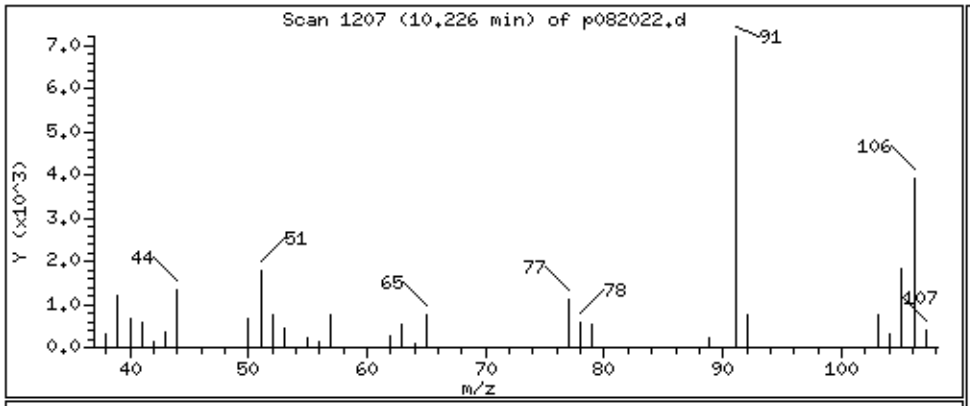
Operator: kk

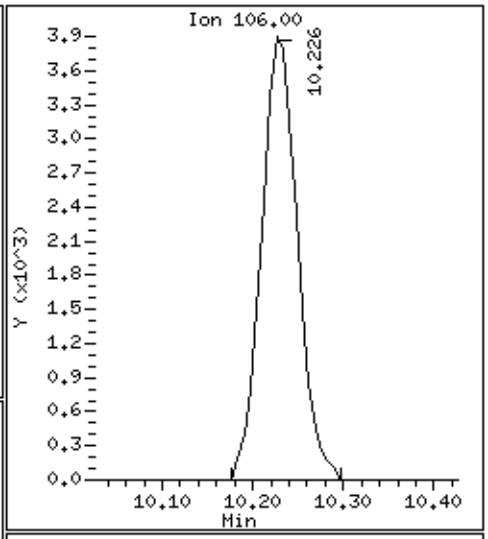
Column phase: RTX-624

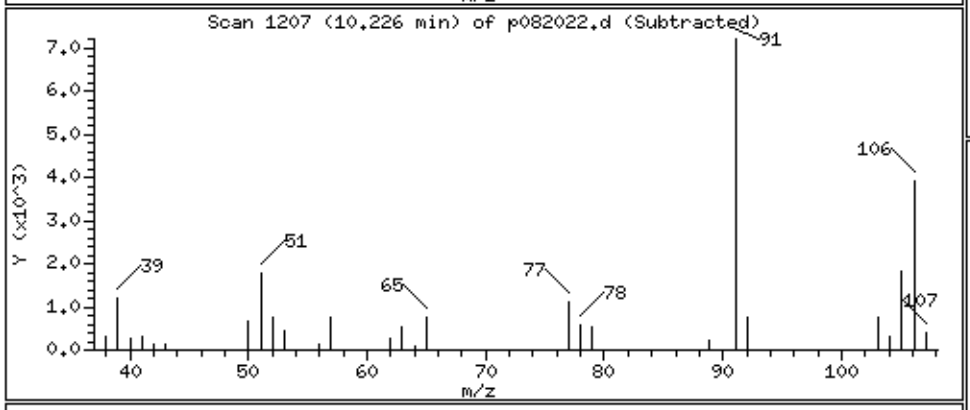
Column diameter: 0.25

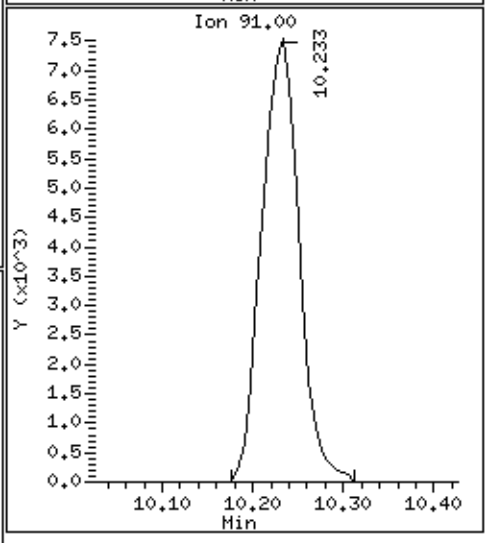
164 o-Xylene

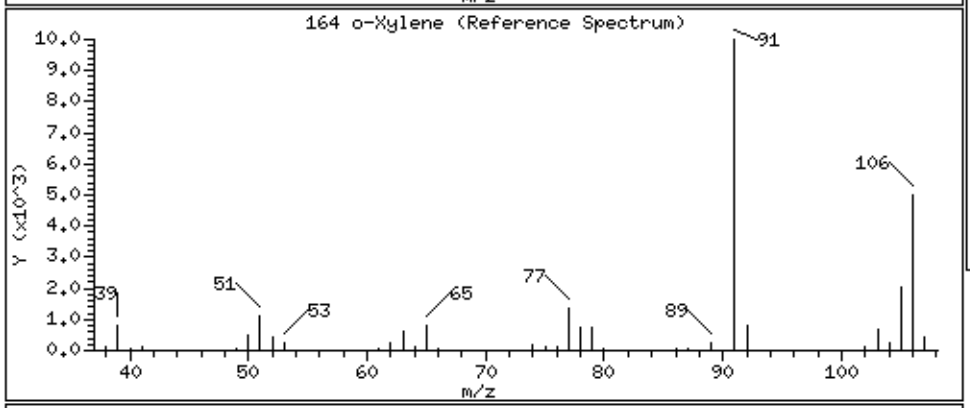
Concentration: 2.429 PPBV

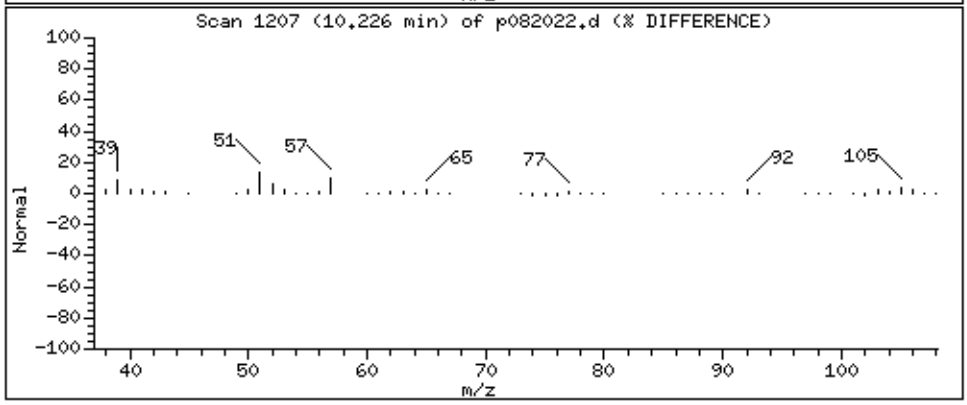












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Client Sample ID: SG-VW58B-02

Lab ID#: 2108390-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p082012**	**Date of Collection:**	**8/16/21 11:38:00 AM**
Dil. Factor:	**2.06**	**Date of Analysis:**	**8/20/21 05:54 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1,2-Tetrachloroethane	4.1	Not Detected	28	Not Detected
1,1,1-Trichloroethane	1.0	Not Detected	5.6	Not Detected
1,1,2,2-Tetrachloroethane	1.0	Not Detected	7.1	Not Detected
1,1,2-Trichloroethane	1.0	Not Detected	5.6	Not Detected
1,1-Dichloroethane	1.0	Not Detected	4.2	Not Detected
1,1-Dichloroethene	1.0	Not Detected	4.1	Not Detected
1,1-Difluoroethane	4.1	Not Detected	11	Not Detected
1,2,3-Trichloropropane	4.1	Not Detected	25	Not Detected
1,2,4-Trichlorobenzene	4.1	Not Detected	30	Not Detected
1,2,4-Trimethylbenzene	1.0	Not Detected	5.1	Not Detected
1,2-Dibromo-3-chloropropane	4.1	Not Detected	40	Not Detected
1,2-Dibromoethane (EDB)	1.0	Not Detected	7.9	Not Detected
1,2-Dichlorobenzene	1.0	Not Detected	6.2	Not Detected
1,2-Dichloroethane	1.0	Not Detected	4.2	Not Detected
1,2-Dichloropropane	1.0	Not Detected	4.8	Not Detected
1,3,5-Trimethylbenzene	1.0	Not Detected	5.1	Not Detected
1,3-Butadiene	1.0	Not Detected	2.3	Not Detected
1,3-Dichlorobenzene	1.0	Not Detected	6.2	Not Detected
1,4-Dichlorobenzene	1.0	Not Detected	6.2	Not Detected
1,4-Dioxane	4.1	Not Detected	15	Not Detected
2,2,4-Trimethylpentane	1.0	Not Detected	4.8	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.1	Not Detected	12	Not Detected
2-Hexanone	4.1	Not Detected	17	Not Detected
2-Propanol	4.1	8.4	10	21
3-Chloropropene	4.1	Not Detected	13	Not Detected
4-Ethyltoluene	1.0	Not Detected	5.1	Not Detected
4-Methyl-2-pentanone	1.0	Not Detected	4.2	Not Detected
Acetone	10	Not Detected	24	Not Detected
Acrolein	4.1	Not Detected	9.4	Not Detected
Acrylonitrile	4.1	Not Detected	8.9	Not Detected
alpha-Chlorotoluene	1.0	Not Detected	5.3	Not Detected
Benzene	1.0	Not Detected	3.3	Not Detected
Bromodichloromethane	1.0	Not Detected	6.9	Not Detected
Bromoform	1.0	Not Detected	11	Not Detected
Bromomethane	10	Not Detected	40	Not Detected
Carbon Disulfide	4.1	Not Detected	13	Not Detected
Carbon Tetrachloride	1.0	Not Detected	6.5	Not Detected
Chlorobenzene	1.0	Not Detected	4.7	Not Detected
Chloroethane	4.1	Not Detected	11	Not Detected
Chloroform	1.0	1.2	5.0	5.6
Chloromethane	10	Not Detected	21	Not Detected
cis-1,2-Dichloroethene	1.0	Not Detected	4.1	Not Detected

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Client Sample ID: SG-VW58B-02

Lab ID#: 2108390-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p082012**	**Date of Collection:**	**8/16/21 11:38:00 AM**
Dil. Factor:	**2.06**	**Date of Analysis:**	**8/20/21 05:54 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,3-Dichloropropene	1.0	Not Detected	4.7	Not Detected
Cumene	1.0	Not Detected	5.1	Not Detected
Cyclohexane	1.0	Not Detected	3.5	Not Detected
Dibromochloromethane	1.0	Not Detected	8.8	Not Detected
Dibromomethane	4.1	Not Detected	29	Not Detected
Ethanol	10	Not Detected	19	Not Detected
Ethyl Acetate	4.1	Not Detected	15	Not Detected
Ethyl Benzene	1.0	Not Detected	4.5	Not Detected
Ethyl-tert-butyl ether	4.1	Not Detected	17	Not Detected
Freon 11	1.0	Not Detected	5.8	Not Detected
Freon 12	1.0	3.7	5.1	18
Freon 113	1.0	Not Detected	7.9	Not Detected
Freon 114	1.0	Not Detected	7.2	Not Detected
Freon 134a	4.1	Not Detected	17	Not Detected
Heptane	1.0	Not Detected	4.2	Not Detected
Hexachlorobutadiene	4.1	Not Detected	44	Not Detected
Hexachloroethane	4.1	Not Detected	40	Not Detected
Hexane	1.0	110	3.6	390
Iodomethane	10	Not Detected	60	Not Detected
Isopropyl ether	4.1	Not Detected	17	Not Detected
m,p-Xylene	1.0	3.3	4.5	14
Methyl tert-butyl ether	4.1	Not Detected	15	Not Detected
Methylene Chloride	10	Not Detected	36	Not Detected
Naphthalene	2.1	Not Detected	11	Not Detected
o-Xylene	1.0	1.2	4.5	5.0
Propylbenzene	1.0	Not Detected	5.1	Not Detected
Propylene	4.1	Not Detected	7.1	Not Detected
Styrene	1.0	Not Detected	4.4	Not Detected
tert-Amyl methyl ether	4.1	Not Detected	17	Not Detected
tert-Butyl alcohol	4.1	Not Detected	12	Not Detected
Tetrachloroethene	1.0	55	7.0	380
Tetrahydrofuran	1.0	Not Detected	3.0	Not Detected
Toluene	1.0	Not Detected	3.9	Not Detected
TPH ref. to Gasoline (MW=100)	100	190	420	780
trans-1,2-Dichloroethene	1.0	Not Detected	4.1	Not Detected
trans-1,3-Dichloropropene	1.0	Not Detected	4.7	Not Detected
Trichloroethene	1.0	Not Detected	5.5	Not Detected
Vinyl Acetate	4.1	Not Detected	14	Not Detected
Vinyl Bromide	4.1	Not Detected	18	Not Detected
Vinyl Chloride	1.0	Not Detected	2.6	Not Detected

Container Type: 1 Liter Summa Canister

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Client Sample ID: SG-VW58B-02

Lab ID#: 2108390-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p082012**	**Date of Collection:**	**8/16/21 11:38:00 AM**
Dil. Factor:	**2.06**	**Date of Analysis:**	**8/20/21 05:54 PM**

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	110	70-130
4-Bromofluorobenzene	104	70-130

US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/20AUG21.b/p082012.d
Lab Smp Id: 2108390-05A
Inj Date : 20-AUG-2021 17:54
Operator : mjb Inst ID: msdp.i
Smp Info : 200ml 1L1582
Misc Info : 5.5 Hg->10 psi
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/20AUG21.b/p21q0519a.m
Meth Date : 20-Aug-2021 12:59 p5fl Quant Type: ISTD
Cal Date : 19-MAY-2021 19:45 Cal File: p051915.d
Als bottle: 5
Dil Factor: 2.06000
Integrator: HP RTE Compound Sublist: AEC25677.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE		(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 90 Bromochloromethane						CAS #: 74-97-5		
5.785	5.785 (1.000)	130	107098	25.0000			80.00- 120.00	100.00
5.785	5.785 (1.000)	128	85971				48.23- 108.23	80.27
5.785	5.778 (1.000)	49	243910				150.57- 210.57	227.74
* 108 1,4-Difluorobenzene						CAS #: 540-36-3		
6.666	6.659 (1.000)	114	386891	25.0000			80.00- 120.00	100.00
6.666	6.659 (1.000)	88	57289				0.00- 45.71	14.81
* 153 Chlorobenzene-d5						CAS #: 3114-55-4		
9.460	9.460 (1.000)	117	405299	25.0000			80.00- 120.00	100.00
9.460	9.460 (1.000)	82	206866				23.78- 83.78	51.04
$ 104 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
6.315	6.315 (1.092)	65	162143	27.4333	27.433		80.00- 120.00	100.00
6.315	6.315 (1.092)	67	77372				27.21- 87.21	47.72
$ 134 Toluene-d8						CAS #: 2037-26-5		
7.891	7.891 (1.184)	98	428422	25.5008	25.501		80.00- 120.00	100.00
7.891	7.891 (1.184)	70	46137				0.00- 40.44	10.77

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 134 Toluene-d8 (continued)							
7.891	7.891 (1.184)	100	277434			34.95- 94.95	64.76
$ 170 4-Bromofluorobenzene					CAS #: 460-00-4		
10.921	10.921 (1.154)	174	270126	25.9546	25.955	80.00- 120.00	100.00
10.921	10.914 (1.154)	95	310675			95.92- 155.92	115.01
10.921	10.921 (1.154)	176	262465			66.89- 126.89	97.16
8 Freon 12					CAS #: 75-71-8		
1.730	1.717 (0.299)	85	17389	1.81031	3.729	80.00- 120.00	100.00
1.730	1.717 (0.299)	87	5615			2.37- 62.37	32.29
52 2-Propanol					CAS #: 67-63-0		
3.908	3.894 (0.676)	45	46323	4.09363	8.433	80.00- 120.00	100.00
3.901	3.894 (0.674)	43	10135			0.00- 47.19	21.88
67 Hexane					CAS #: 110-54-3		
4.696	4.697 (0.812)	57	572442	54.2579	111.77	80.00- 120.00	100.00
4.696	4.697 (0.812)	43	451246			37.52- 97.52	78.83
4.696	4.697 (0.812)	86	55537			0.00- 41.48	9.70
92 Chloroform					CAS #: 67-66-3		
5.842	5.843 (1.010)	83	5237	0.56201	1.158	80.00- 120.00	100.00
5.842	5.843 (1.010)	85	3331			34.70- 94.70	63.61
142 Tetrachloroethene					CAS #: 127-18-4		
8.471	8.464 (0.895)	166	248372	26.8885	55.390	80.00- 120.00	100.00
8.464	8.464 (0.895)	129	191056			47.84- 107.84	76.92
8.464	8.464 (0.895)	131	185826			45.29- 105.29	74.82
158 m,p-Xylene					CAS #: 108-38-3		
9.718	9.718 (1.027)	106	17080	1.62051	3.338	80.00- 120.00	100.00
9.718	9.718 (1.027)	91	30472			163.73- 223.73	178.40
164 o-Xylene					CAS #: 95-47-6		
10.226	10.226 (1.081)	106	5665	0.56098	1.156	80.00- 120.00	100.00
10.226	10.226 (1.081)	91	12756			177.45- 237.45	225.16

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p082012.d
Lab Smp Id: 2108390-05A
Analysis Type: VOA
Quant Type: ISTD
Operator: mjb
Method File: /chem/msdp.i/20AUG21.b/p21q0519a.m
Misc Info: 5.5 Hg->10 psi

Calibration Date: 20-AUG-2021
Calibration Time: 11:13
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	109375	65625	153125	107098	-2.08
108 1,4-Difluorobenze	406799	244079	569519	386891	-4.89
153 Chlorobenzene-d5	400841	240505	561177	405299	1.11

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.79	5.46	6.12	5.79	-0.00
108 1,4-Difluorobenze	6.66	6.33	6.99	6.67	0.11
153 Chlorobenzene-d5	9.46	9.13	9.79	9.46	-0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 24-Aug-2021 10:48

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RECOVERY REPORT

Client Name: Client SDG: 20AUG21
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 2108390-05A
Level: LOW Operator: mjb
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT20_new.spk Quant Type: ISTD
Sublist File: AEC25677.sub
Method File: /chem/msdp.i/20AUG21.b/p21q0519a.m
Misc Info: 5.5 Hg->10 psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 104 1,2-Dichloroethan	25.000	27.433	109.73	70-130
$ 134 Toluene-d8	25.000	25.501	102.00	70-130
$ 170 4-Bromofluorobenz	25.000	25.955	103.82	70-130

Data File: /chem/msdp.i/20AUG21.b/p082012.d

Date : 20-AUG-2021 17:54

Client ID:

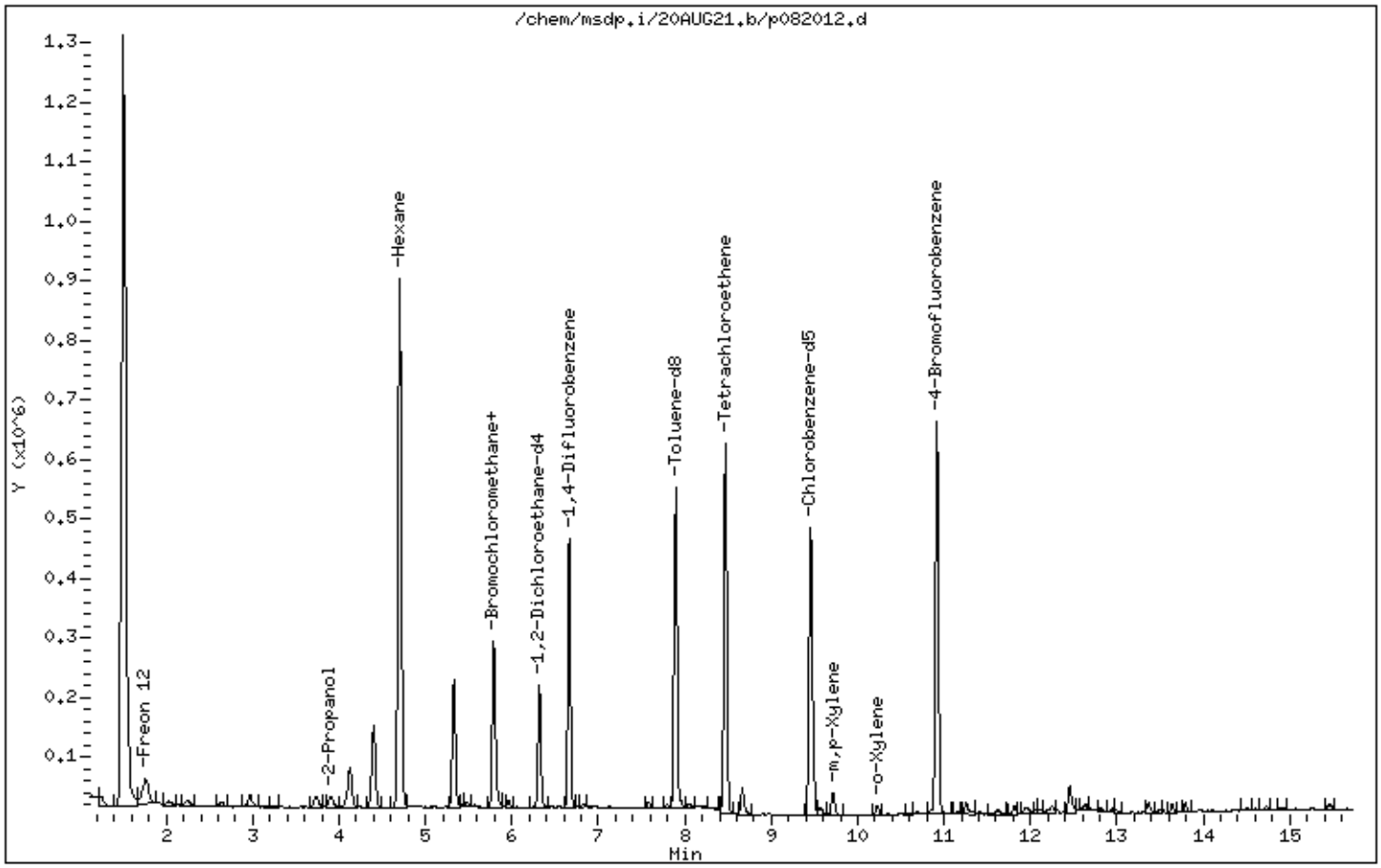
Instrument: msdp.i

Sample Info: 200ml 1L1582

Operator: mjb

Column phase: RTX-624

Column diameter: 0.25



Data File: /chem/msdp.i/20AUG21.b/p082012.d

Date : 20-AUG-2021 17:54

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1L1582

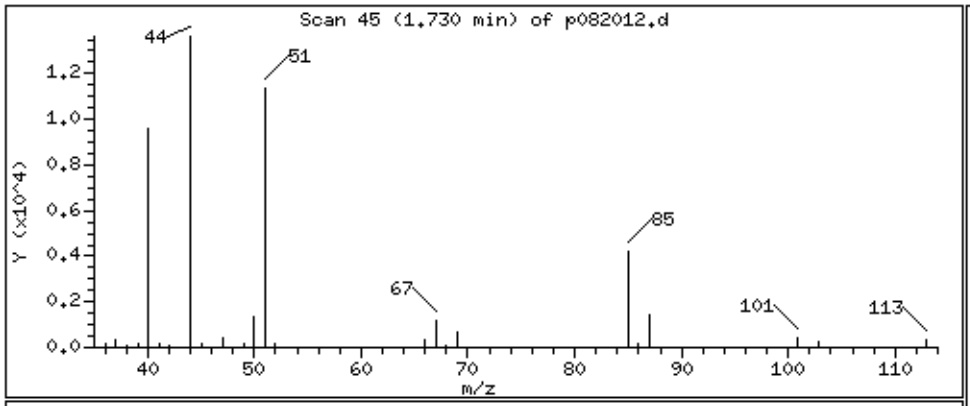
Operator: mjb

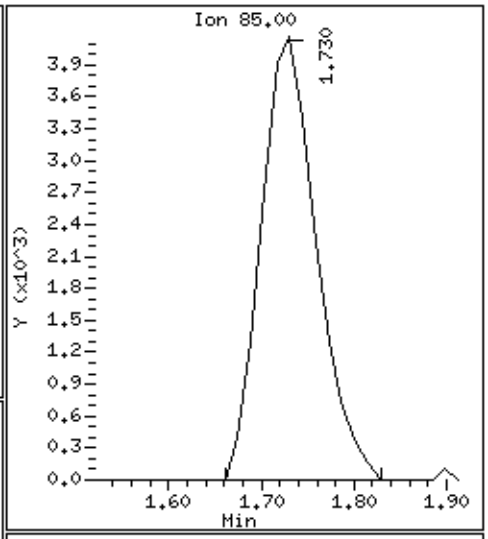
Column phase: RTX-624

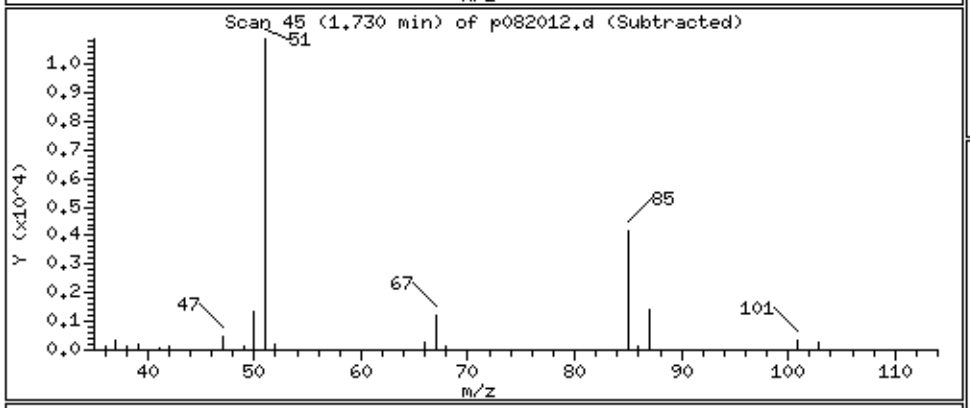
Column diameter: 0.25

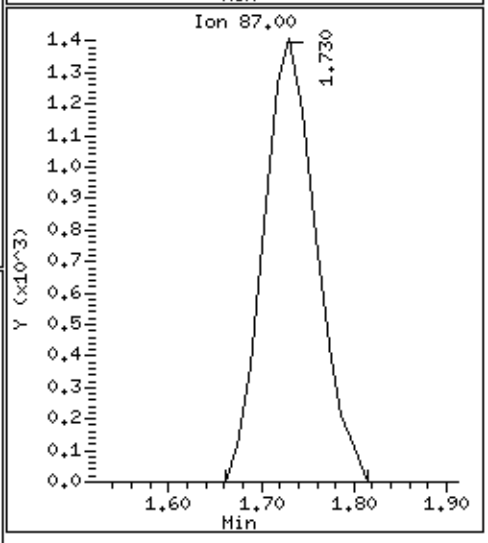
8 Freon 12

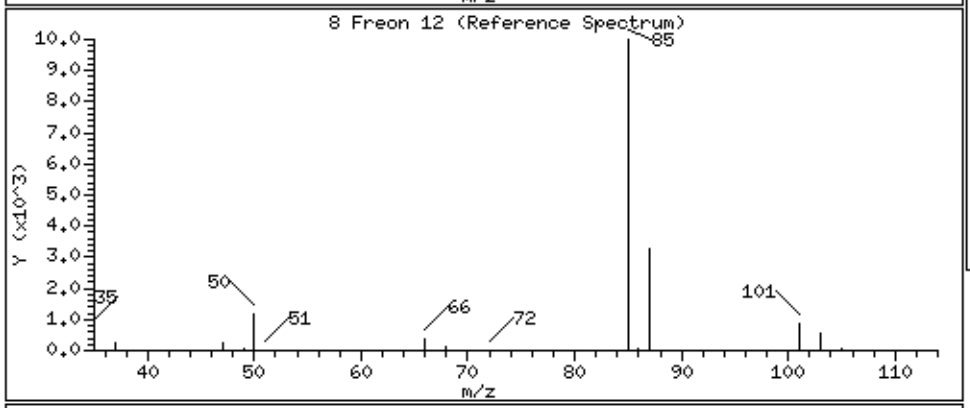
Concentration: 3.729 PPBV

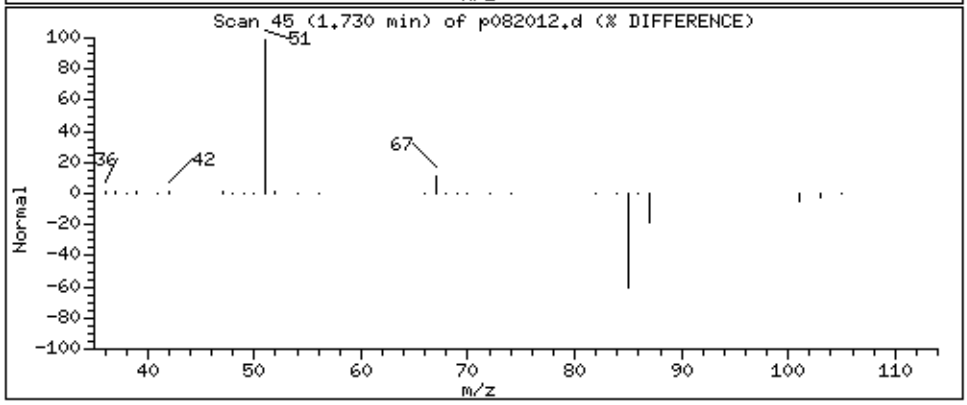












Data File: /chem/msdp.i/20AUG21.b/p082012.d

Date : 20-AUG-2021 17:54

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1L1582

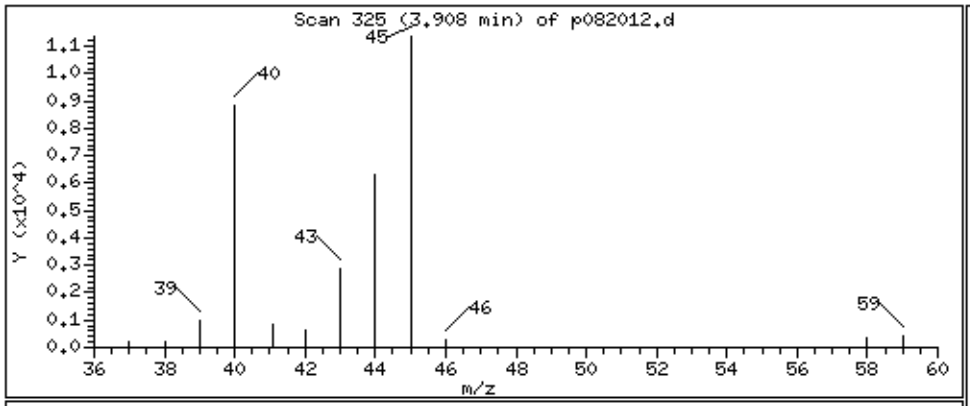
Operator: mjb

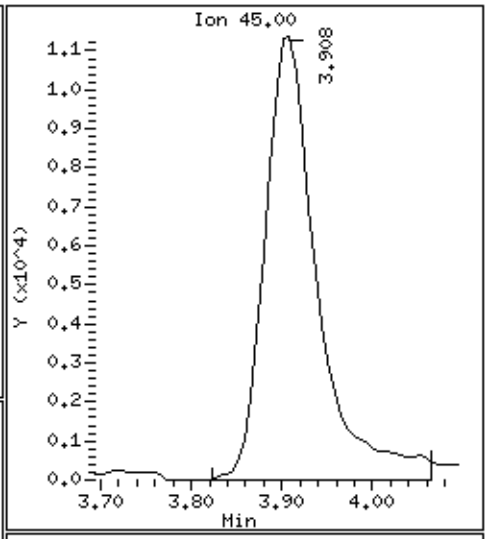
Column phase: RTX-624

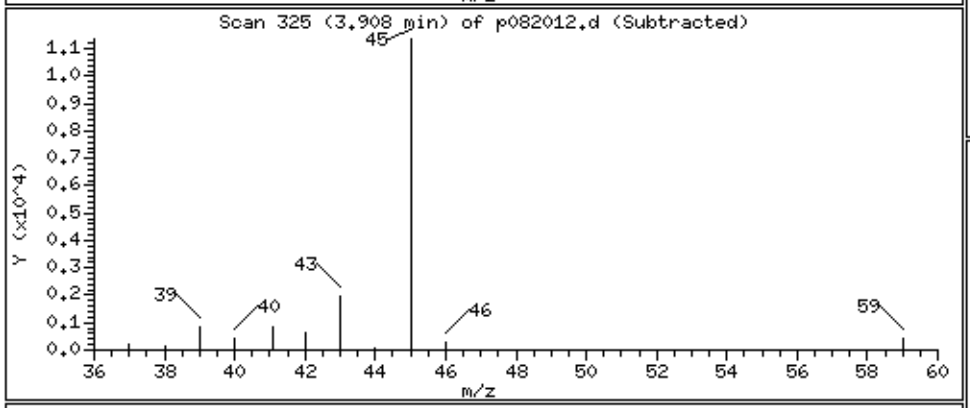
Column diameter: 0.25

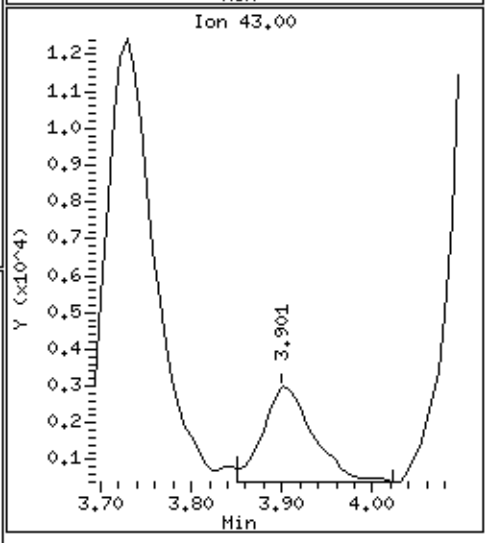
52 2-Propanol

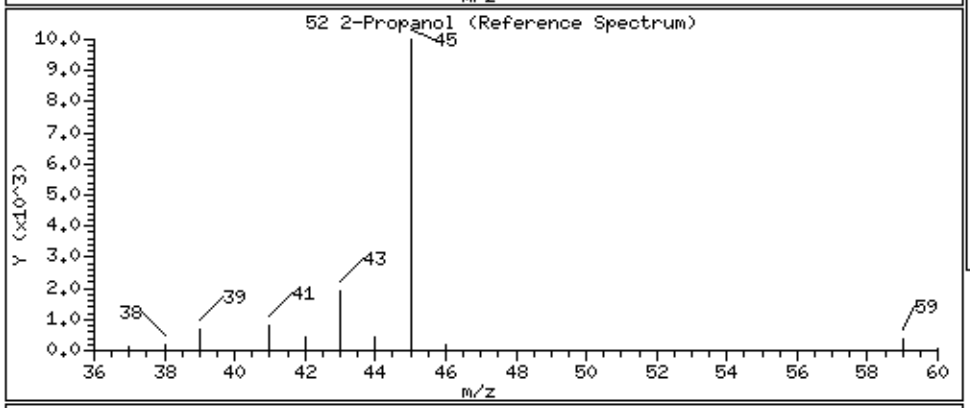
Concentration: 8.433 PPBV

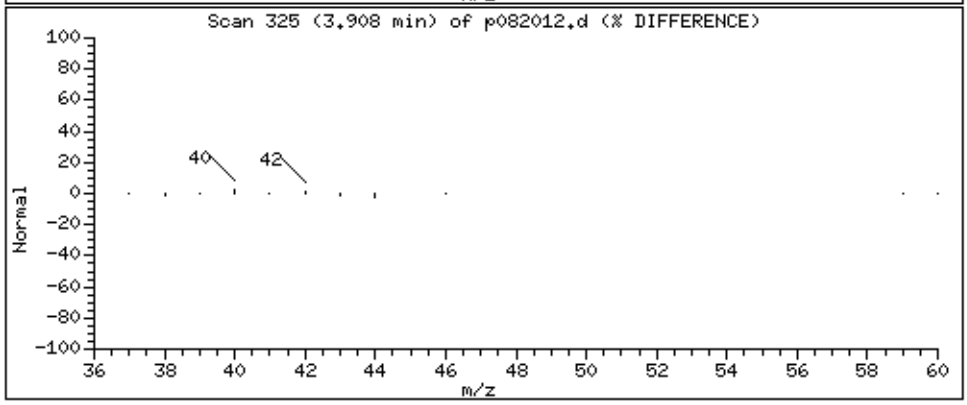












Data File: /chem/msdp.i/20AUG21.b/p082012.d

Date : 20-AUG-2021 17:54

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1L1582

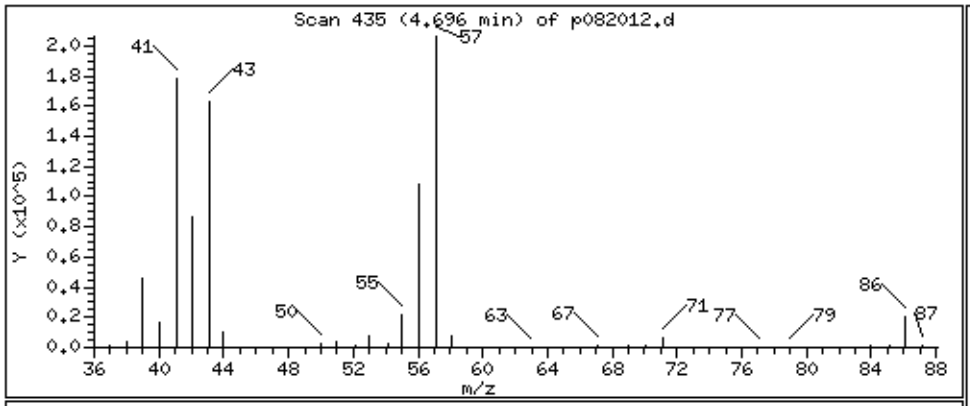
Operator: mjb

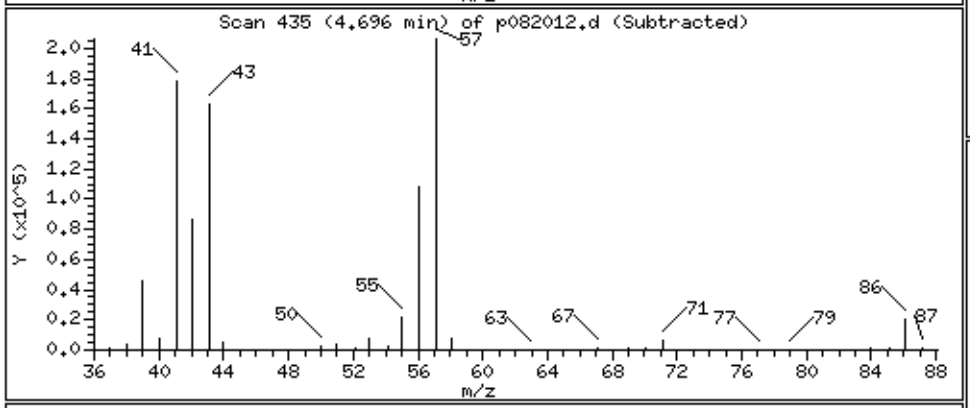
Column phase: RTX-624

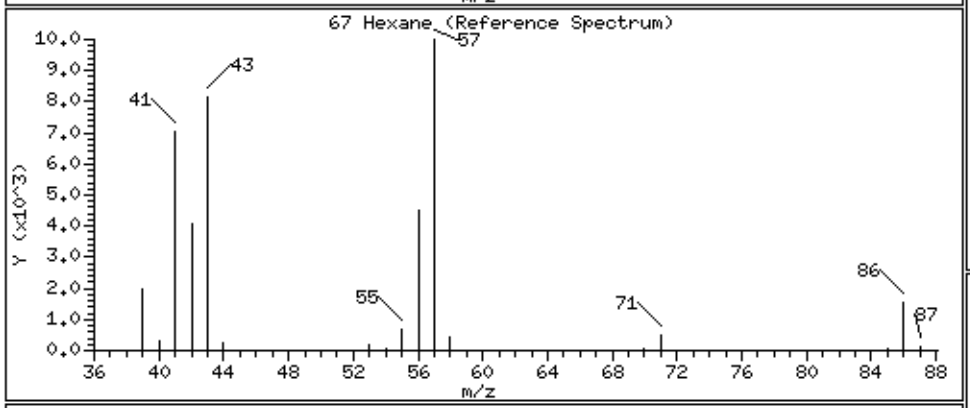
Column diameter: 0.25

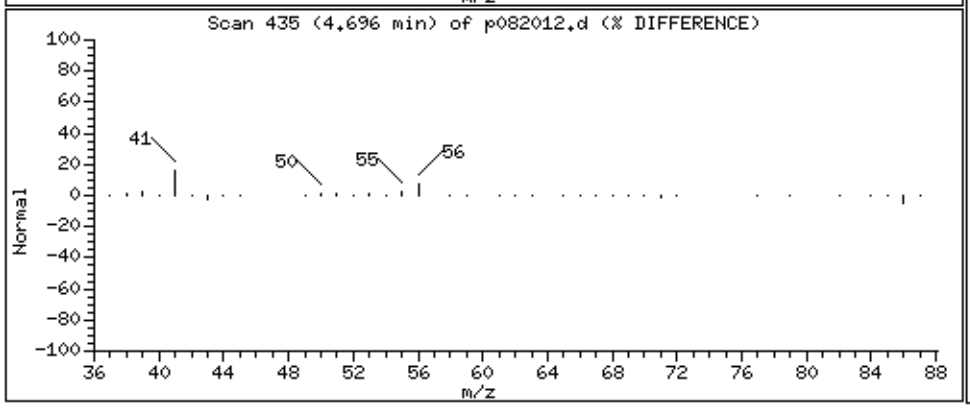
67 Hexane

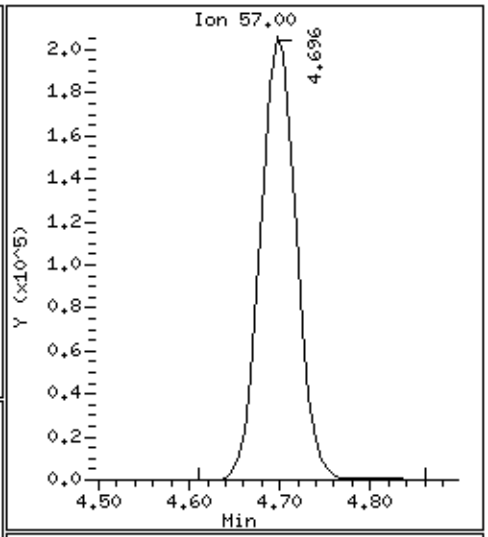
Concentration: 111.77 PPBV

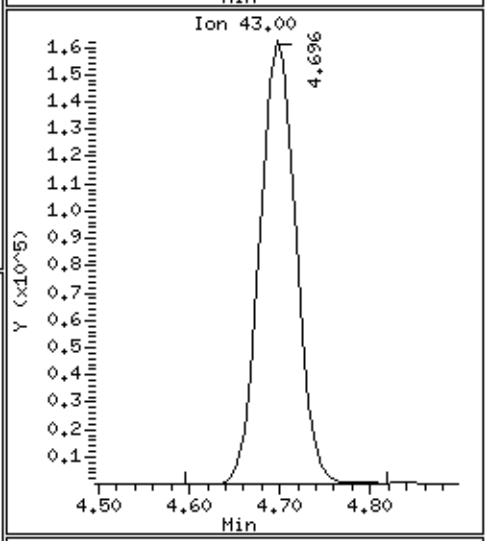


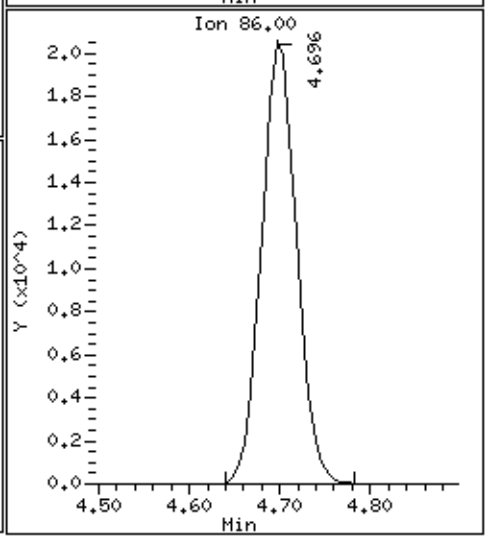












Data File: /chem/msdp.i/20AUG21.b/p082012.d

Date : 20-AUG-2021 17:54

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1L1582

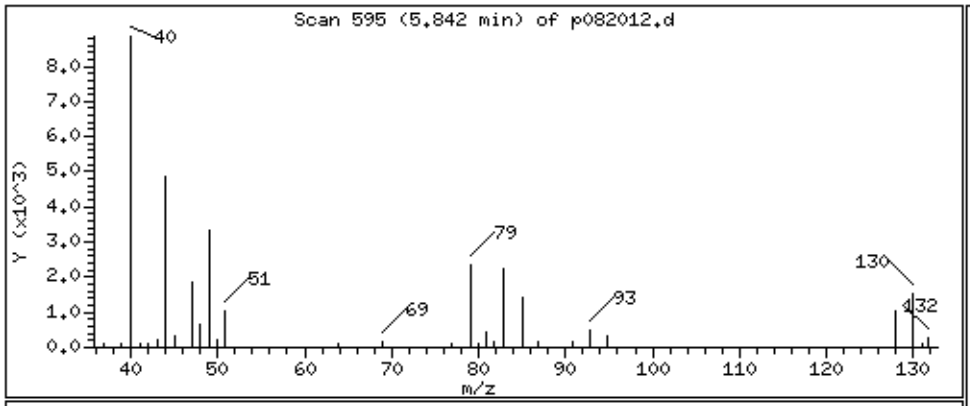
Operator: mjb

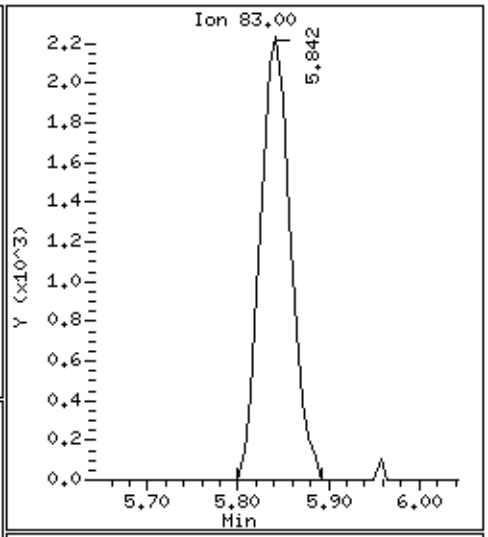
Column phase: RTX-624

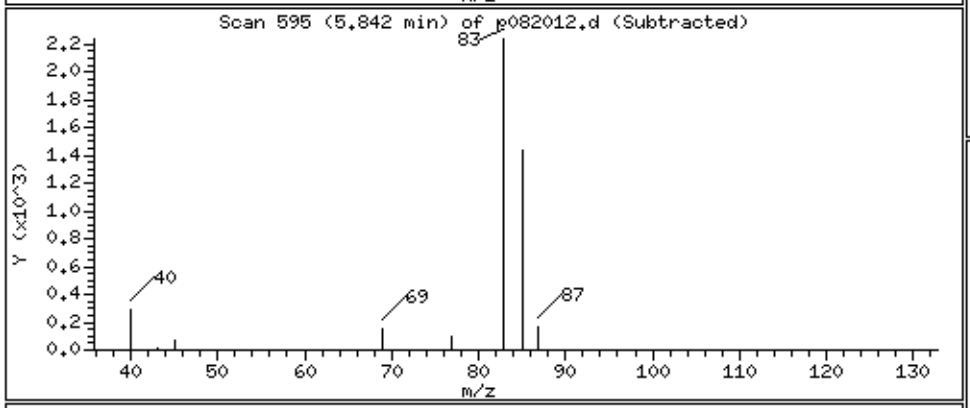
Column diameter: 0.25

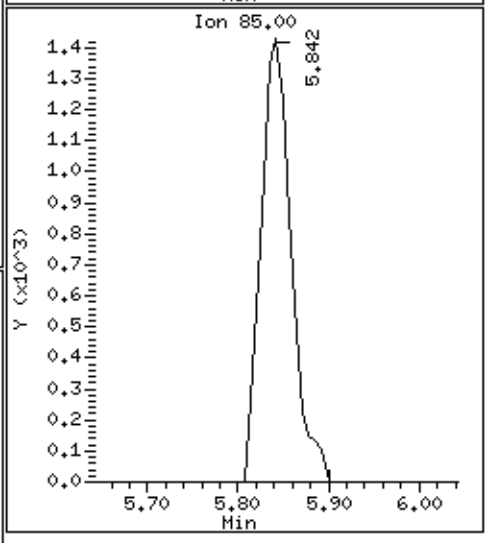
92 Chloroform

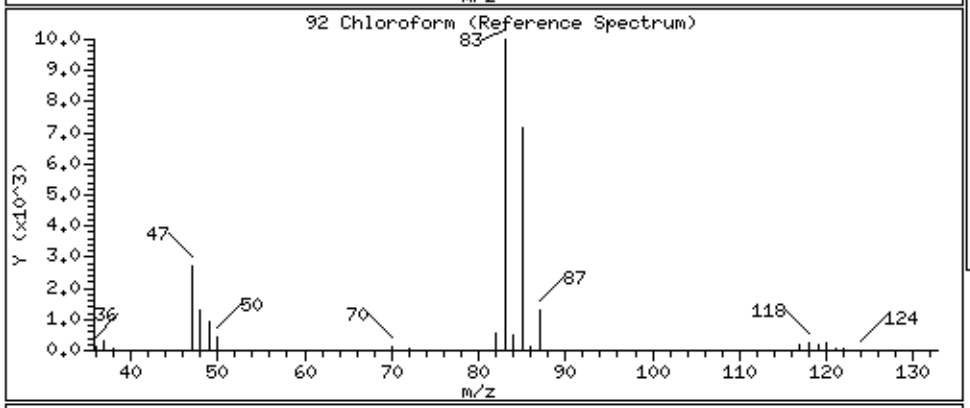
Concentration: 1.158 PPBV

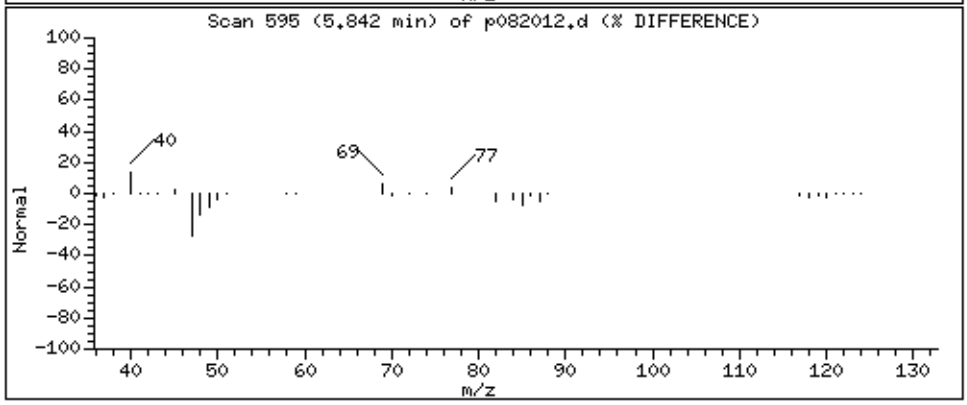












Data File: /chem/msdp.i/20AUG21.b/p082012.d

Page 6

Date : 20-AUG-2021 17:54

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1L1582

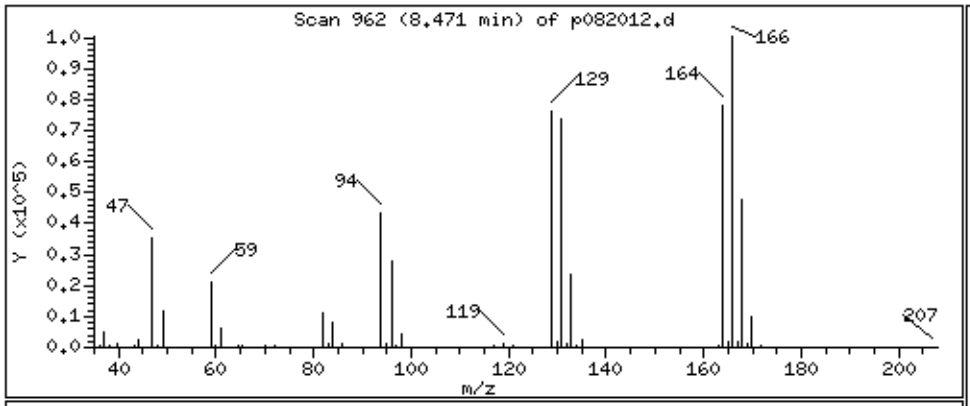
Operator: mjb

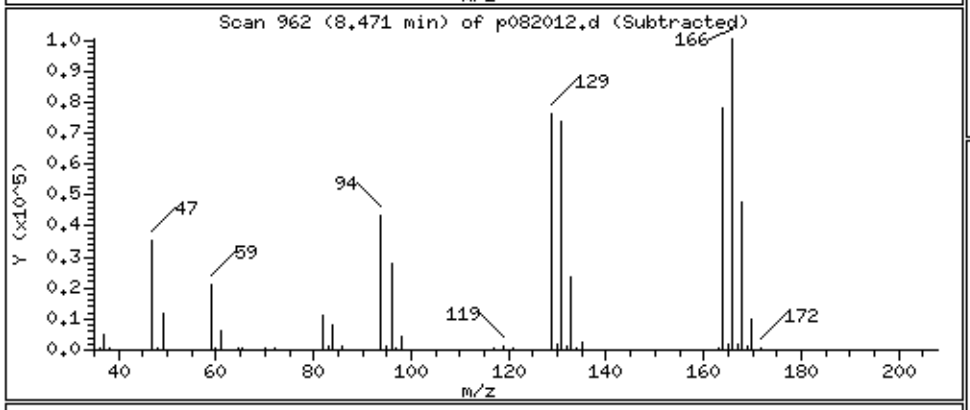
Column phase: RTX-624

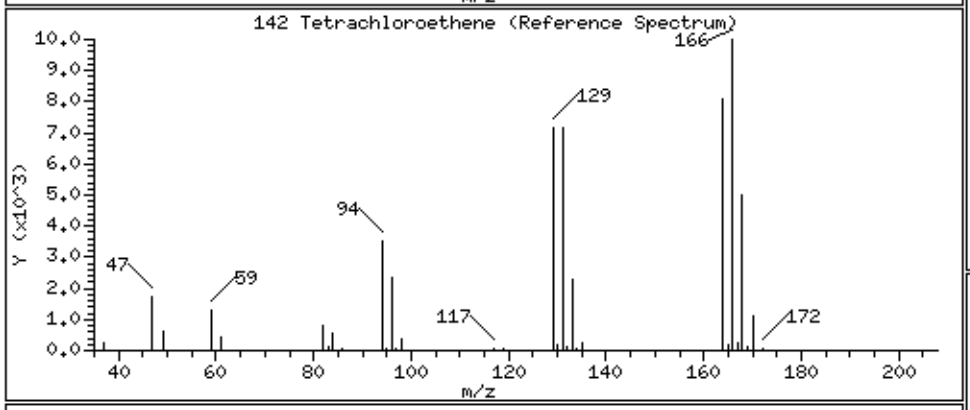
Column diameter: 0.25

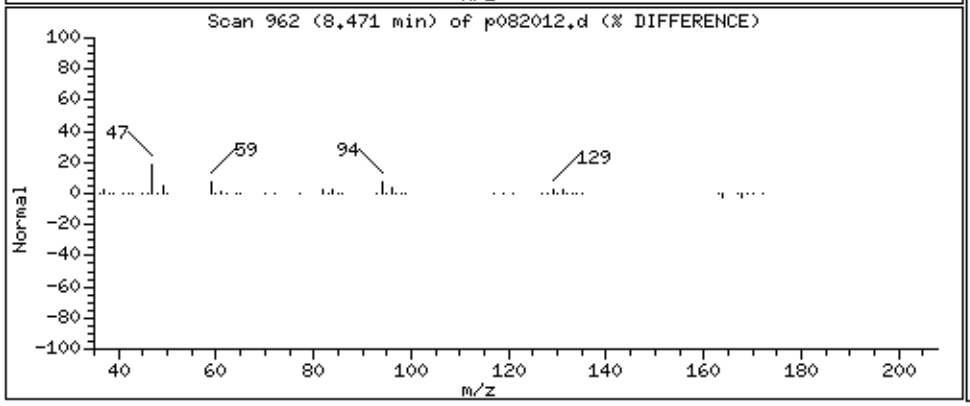
142 Tetrachloroethene

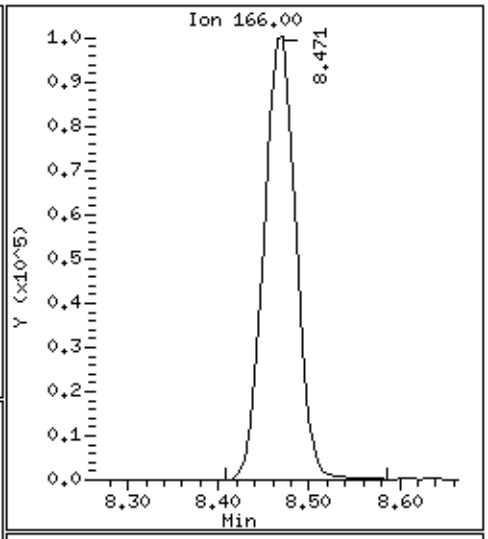
Concentration: 55.390 PPBV

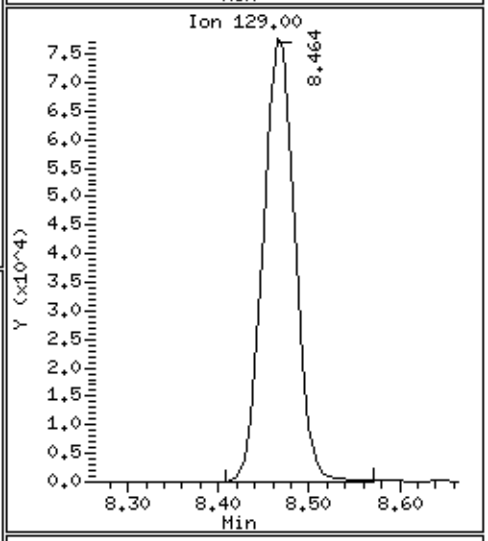


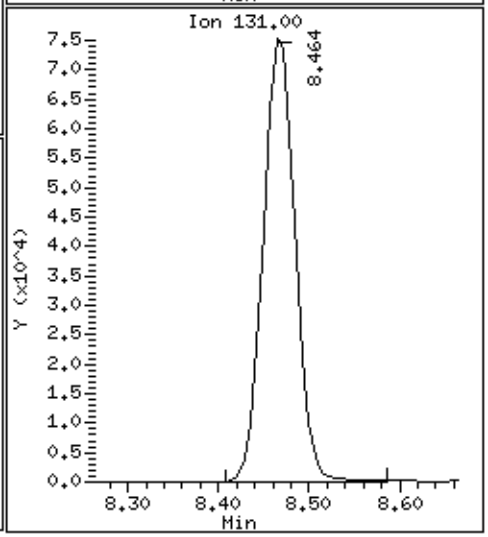












Data File: /chem/msdp.i/20AUG21.b/p082012.d

Date : 20-AUG-2021 17:54

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1L1582

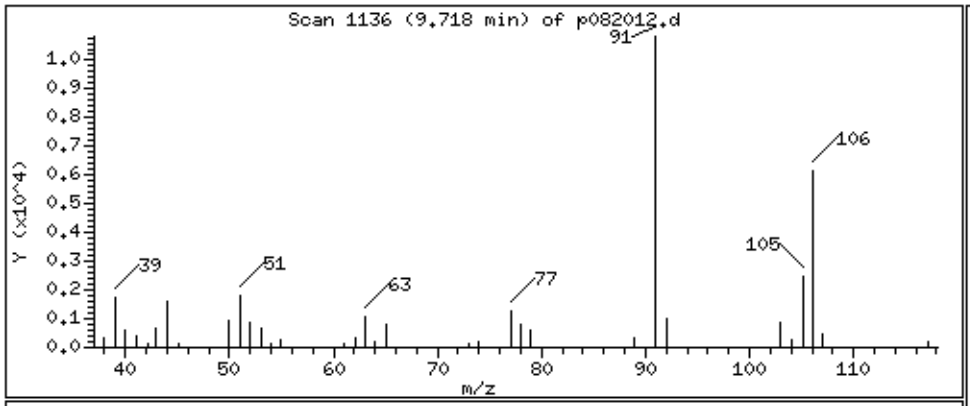
Operator: mjb

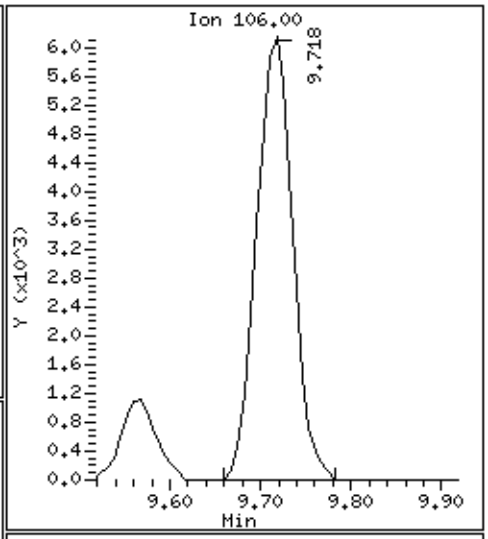
Column phase: RTX-624

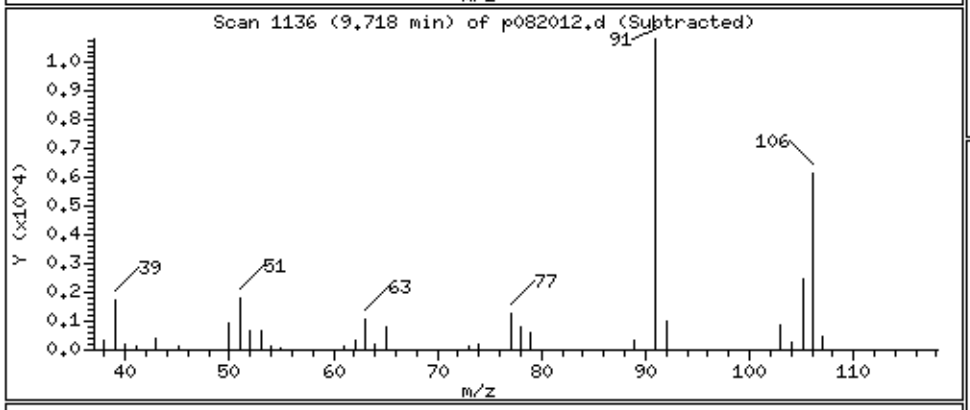
Column diameter: 0.25

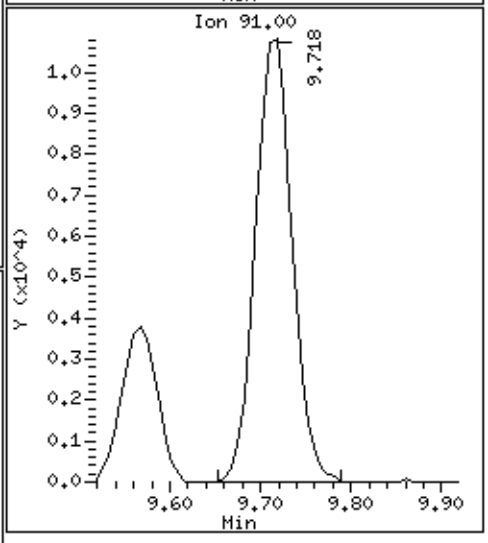
158 m,p-Xylene

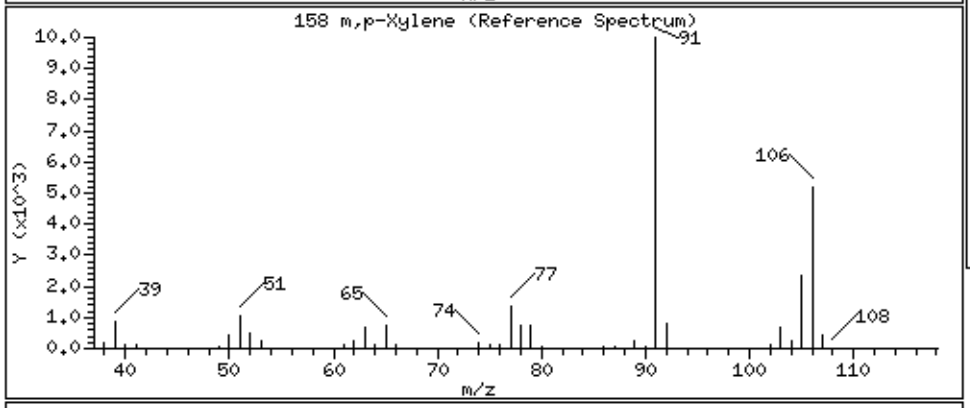
Concentration: 3.338 PPBV

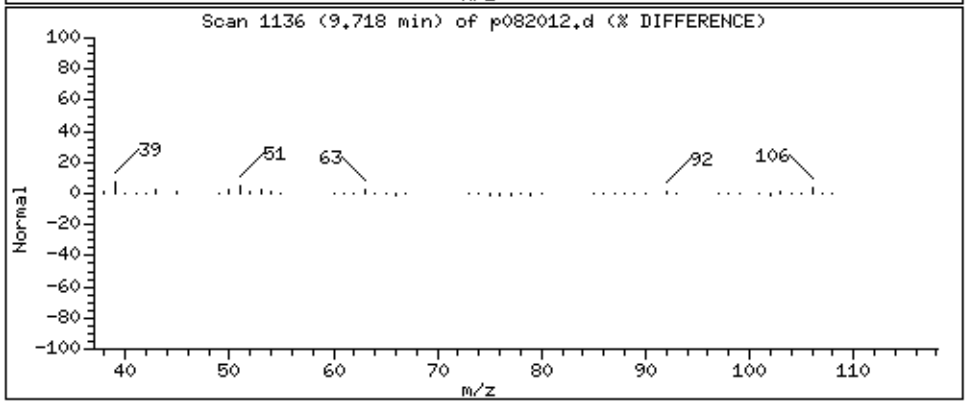












Data File: /chem/msdp.i/20AUG21.b/p082012.d

Date : 20-AUG-2021 17:54

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1L1582

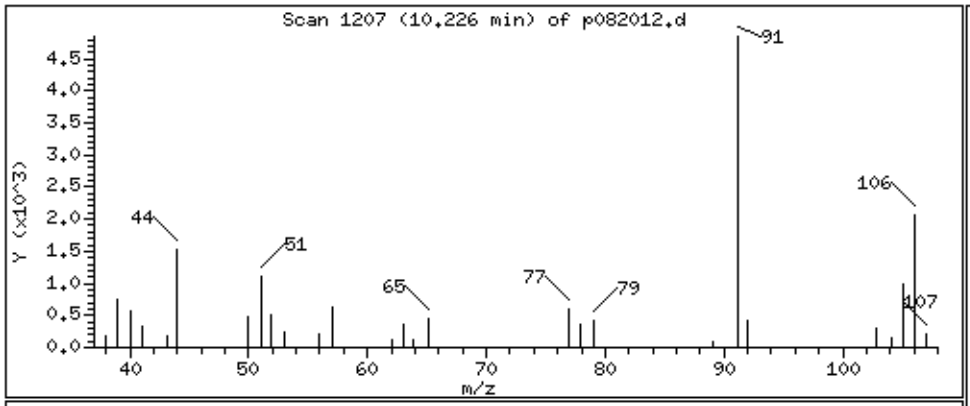
Operator: mjb

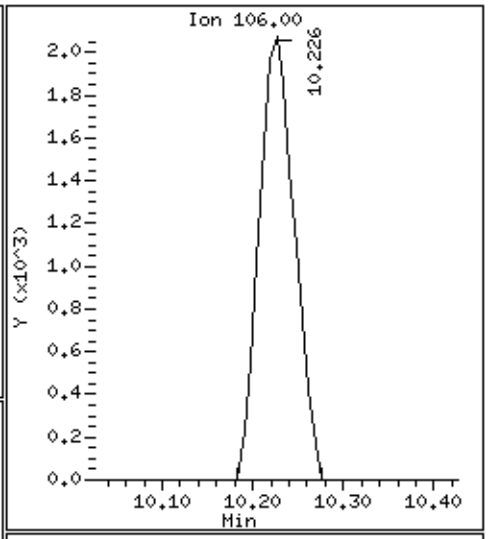
Column phase: RTX-624

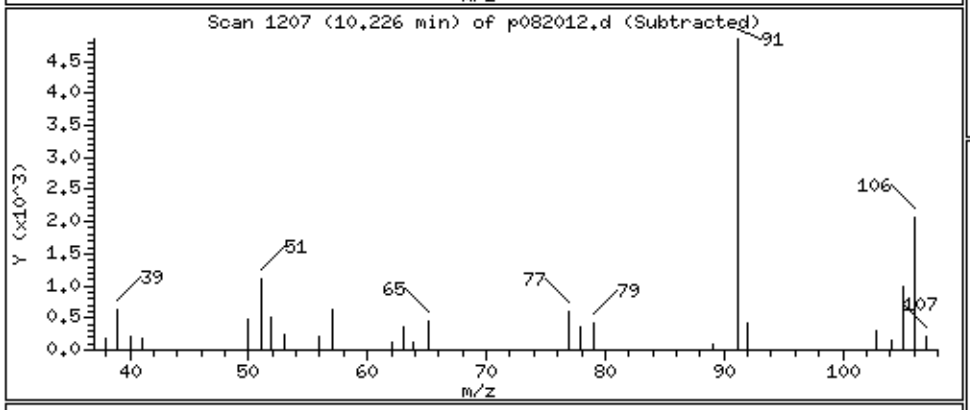
Column diameter: 0.25

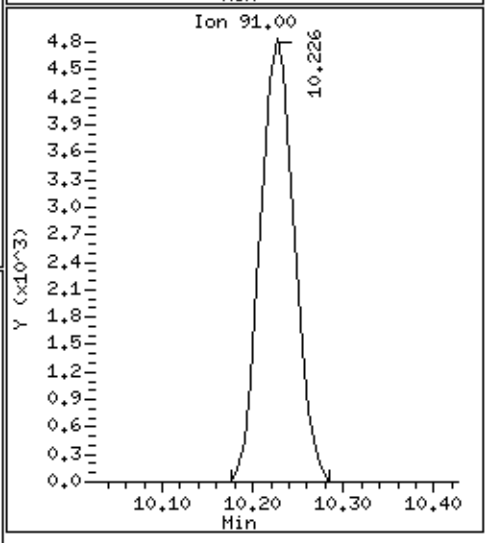
164 o-Xylene

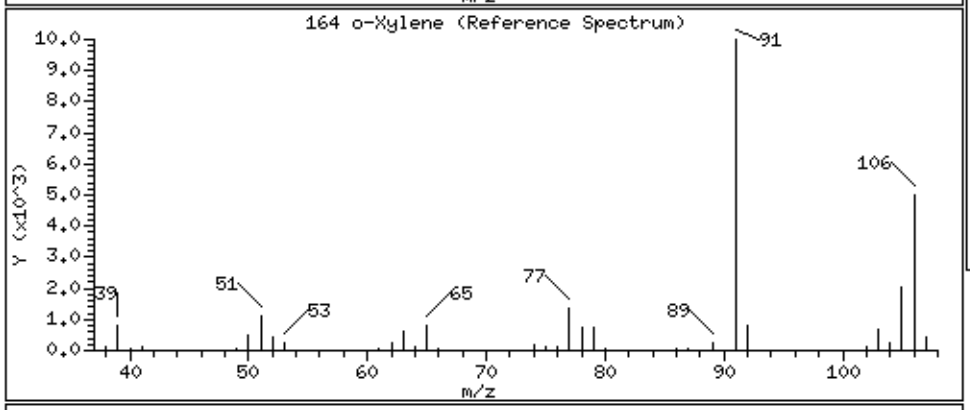
Concentration: 1.156 PPBV

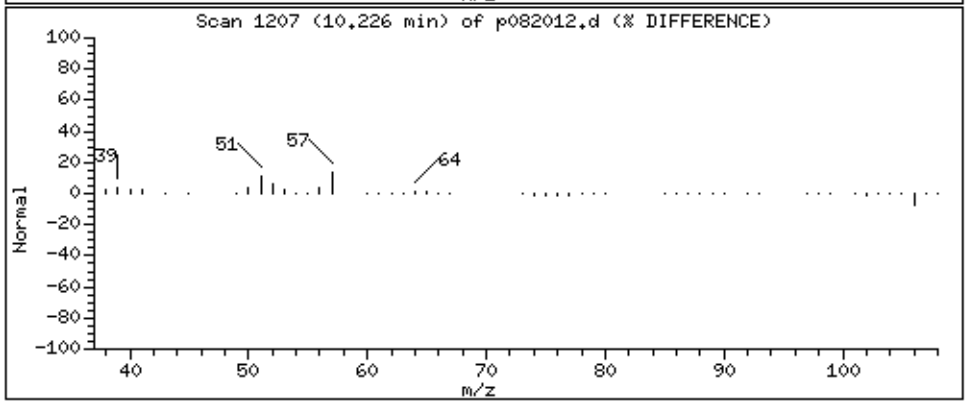












eurofins | Air Toxics

Client Sample ID: SG-VW60B-02

Lab ID#: 2108390-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p082013**	**Date of Collection:**	**8/16/21 12:08:00 PM**
Dil. Factor:	**2.10**	**Date of Analysis:**	**8/20/21 06:24 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1,2-Tetrachloroethane	4.2	Not Detected	29	Not Detected
1,1,1-Trichloroethane	1.0	Not Detected	5.7	Not Detected
1,1,2,2-Tetrachloroethane	1.0	Not Detected	7.2	Not Detected
1,1,2-Trichloroethane	1.0	Not Detected	5.7	Not Detected
1,1-Dichloroethane	1.0	Not Detected	4.2	Not Detected
1,1-Dichloroethene	1.0	Not Detected	4.2	Not Detected
1,1-Difluoroethane	4.2	Not Detected	11	Not Detected
1,2,3-Trichloropropane	4.2	Not Detected	25	Not Detected
1,2,4-Trichlorobenzene	4.2	Not Detected	31	Not Detected
1,2,4-Trimethylbenzene	1.0	Not Detected	5.2	Not Detected
1,2-Dibromo-3-chloropropane	4.2	Not Detected	40	Not Detected
1,2-Dibromoethane (EDB)	1.0	Not Detected	8.1	Not Detected
1,2-Dichlorobenzene	1.0	Not Detected	6.3	Not Detected
1,2-Dichloroethane	1.0	Not Detected	4.2	Not Detected
1,2-Dichloropropane	1.0	Not Detected	4.8	Not Detected
1,3,5-Trimethylbenzene	1.0	Not Detected	5.2	Not Detected
1,3-Butadiene	1.0	Not Detected	2.3	Not Detected
1,3-Dichlorobenzene	1.0	Not Detected	6.3	Not Detected
1,4-Dichlorobenzene	1.0	Not Detected	6.3	Not Detected
1,4-Dioxane	4.2	Not Detected	15	Not Detected
2,2,4-Trimethylpentane	1.0	Not Detected	4.9	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.2	Not Detected	12	Not Detected
2-Hexanone	4.2	Not Detected	17	Not Detected
2-Propanol	4.2	Not Detected	10	Not Detected
3-Chloropropene	4.2	Not Detected	13	Not Detected
4-Ethyltoluene	1.0	Not Detected	5.2	Not Detected
4-Methyl-2-pentanone	1.0	Not Detected	4.3	Not Detected
Acetone	10	Not Detected	25	Not Detected
Acrolein	4.2	Not Detected	9.6	Not Detected
Acrylonitrile	4.2	Not Detected	9.1	Not Detected
alpha-Chlorotoluene	1.0	Not Detected	5.4	Not Detected
Benzene	1.0	Not Detected	3.4	Not Detected
Bromodichloromethane	1.0	Not Detected	7.0	Not Detected
Bromoform	1.0	Not Detected	11	Not Detected
Bromomethane	10	Not Detected	41	Not Detected
Carbon Disulfide	4.2	Not Detected	13	Not Detected
Carbon Tetrachloride	1.0	Not Detected	6.6	Not Detected
Chlorobenzene	1.0	Not Detected	4.8	Not Detected
Chloroethane	4.2	Not Detected	11	Not Detected
Chloroform	1.0	1.1	5.1	5.4
Chloromethane	10	Not Detected	22	Not Detected
cis-1,2-Dichloroethene	1.0	Not Detected	4.2	Not Detected

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Client Sample ID: SG-VW60B-02

Lab ID#: 2108390-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p082013**	**Date of Collection:**	**8/16/21 12:08:00 PM**
Dil. Factor:	**2.10**	**Date of Analysis:**	**8/20/21 06:24 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,3-Dichloropropene	1.0	Not Detected	4.8	Not Detected
Cumene	1.0	Not Detected	5.2	Not Detected
Cyclohexane	1.0	Not Detected	3.6	Not Detected
Dibromochloromethane	1.0	Not Detected	8.9	Not Detected
Dibromomethane	4.2	Not Detected	30	Not Detected
Ethanol	10	Not Detected	20	Not Detected
Ethyl Acetate	4.2	Not Detected	15	Not Detected
Ethyl Benzene	1.0	Not Detected	4.6	Not Detected
Ethyl-tert-butyl ether	4.2	Not Detected	18	Not Detected
Freon 11	1.0	Not Detected	5.9	Not Detected
Freon 12	1.0	3.4	5.2	17
Freon 113	1.0	Not Detected	8.0	Not Detected
Freon 114	1.0	Not Detected	7.3	Not Detected
Freon 134a	4.2	Not Detected	18	Not Detected
Heptane	1.0	Not Detected	4.3	Not Detected
Hexachlorobutadiene	4.2	Not Detected	45	Not Detected
Hexachloroethane	4.2	Not Detected	41	Not Detected
Hexane	1.0	86	3.7	300
Iodomethane	10	Not Detected	61	Not Detected
Isopropyl ether	4.2	Not Detected	18	Not Detected
m,p-Xylene	1.0	2.2	4.6	9.4
Methyl tert-butyl ether	4.2	Not Detected	15	Not Detected
Methylene Chloride	10	Not Detected	36	Not Detected
Naphthalene	2.1	Not Detected	11	Not Detected
o-Xylene	1.0	Not Detected	4.6	Not Detected
Propylbenzene	1.0	Not Detected	5.2	Not Detected
Propylene	4.2	Not Detected	7.2	Not Detected
Styrene	1.0	Not Detected	4.5	Not Detected
tert-Amyl methyl ether	4.2	Not Detected	18	Not Detected
tert-Butyl alcohol	4.2	Not Detected	13	Not Detected
Tetrachloroethene	1.0	30	7.1	200
Tetrahydrofuran	1.0	Not Detected	3.1	Not Detected
Toluene	1.0	2.7	4.0	10
TPH ref. to Gasoline (MW=100)	100	160	430	650
trans-1,2-Dichloroethene	1.0	Not Detected	4.2	Not Detected
trans-1,3-Dichloropropene	1.0	Not Detected	4.8	Not Detected
Trichloroethene	1.0	Not Detected	5.6	Not Detected
Vinyl Acetate	4.2	Not Detected	15	Not Detected
Vinyl Bromide	4.2	Not Detected	18	Not Detected
Vinyl Chloride	1.0	Not Detected	2.7	Not Detected

Container Type: 1 Liter Summa Canister

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Client Sample ID: SG-VW60B-02

Lab ID#: 2108390-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p082013**	**Date of Collection:**	**8/16/21 12:08:00 PM**
Dil. Factor:	**2.10**	**Date of Analysis:**	**8/20/21 06:24 PM**

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	109	70-130
4-Bromofluorobenzene	106	70-130

US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/20AUG21.b/p082013.d
Lab Smp Id: 2108390-06A
Inj Date : 20-AUG-2021 18:24
Operator : mjb Inst ID: msdp.i
Smp Info : 200ml O0255
Misc Info : 6.0 Hg->10 psi
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/20AUG21.b/p21q0519a.m
Meth Date : 20-Aug-2021 12:59 p5fl Quant Type: ISTD
Cal Date : 19-MAY-2021 19:45 Cal File: p051915.d
Als bottle: 6
Dil Factor: 2.10000
Integrator: HP RTE Compound Sublist: AEC25677.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE		(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 90 Bromochloromethane						CAS #: 74-97-5		
5.785	5.785 (1.000)	130	108335	25.0000			80.00- 120.00	100.00
5.785	5.785 (1.000)	128	83124				48.23- 108.23	76.73
5.785	5.778 (1.000)	49	242338				150.57- 210.57	223.69
* 108 1,4-Difluorobenzene						CAS #: 540-36-3		
6.666	6.659 (1.000)	114	385237	25.0000			80.00- 120.00	100.00
6.666	6.659 (1.000)	88	55254				0.00- 45.71	14.34
* 153 Chlorobenzene-d5						CAS #: 3114-55-4		
9.460	9.460 (1.000)	117	403350	25.0000			80.00- 120.00	100.00
9.460	9.460 (1.000)	82	208364				23.78- 83.78	51.66
$ 104 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
6.315	6.315 (1.092)	65	162683	27.2104	27.210		80.00- 120.00	100.00
6.315	6.315 (1.092)	67	78881				27.21- 87.21	48.49
$ 134 Toluene-d8						CAS #: 2037-26-5		
7.891	7.891 (1.184)	98	421896	25.2202	25.220		80.00- 120.00	100.00
7.891	7.891 (1.184)	70	45323				0.00- 40.44	10.74

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 134 Toluene-d8 (continued)							
7.891	7.891 (1.184)	100	272975			34.95- 94.95	64.70
$ 170 4-Bromofluorobenzene					CAS #: 460-00-4		
10.921	10.921 (1.154)	174	274131	26.4667	26.467	80.00- 120.00	100.00
10.914	10.914 (1.154)	95	319404			95.92- 155.92	116.51
10.921	10.921 (1.154)	176	257247			66.89- 126.89	93.84
8 Freon 12					CAS #: 75-71-8		
1.730	1.717 (0.299)	85	15885	1.63485	3.433	80.00- 120.00	100.00
1.730	1.717 (0.299)	87	5239			2.37- 62.37	32.98
67 Hexane					CAS #: 110-54-3		
4.696	4.697 (0.812)	57	437767	41.0192	86.140	80.00- 120.00	100.00
4.696	4.697 (0.812)	43	344905			37.52- 97.52	78.79
4.696	4.697 (0.812)	86	44912			0.00- 41.48	10.26
92 Chloroform					CAS #: 67-66-3		
5.843	5.843 (1.010)	83	5003	0.53077	1.115	80.00- 120.00	100.00
5.843	5.843 (1.010)	85	3098			34.70- 94.70	61.93
137 Toluene					CAS #: 108-88-3		
7.956	7.956 (1.193)	91	22828	1.30154	2.733	80.00- 120.00	100.00
7.956	7.956 (1.193)	92	12609			28.38- 88.38	55.24
142 Tetrachloroethene					CAS #: 127-18-4		
8.464	8.464 (0.895)	166	129689	14.1079	29.626	80.00- 120.00	100.00
8.464	8.464 (0.895)	129	96528			47.84- 107.84	74.43
8.464	8.464 (0.895)	131	94393			45.29- 105.29	72.78
158 m,p-Xylene					CAS #: 108-38-3		
9.711	9.718 (1.026)	106	10854	1.03478	2.173	80.00- 120.00	100.00
9.711	9.718 (1.026)	91	22250			163.73- 223.73	205.00

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p082013.d
Lab Smp Id: 2108390-06A
Analysis Type: VOA
Quant Type: ISTD
Operator: mjb
Method File: /chem/msdp.i/20AUG21.b/p21q0519a.m
Misc Info: 6.0 Hg->10 psi

Calibration Date: 20-AUG-2021
Calibration Time: 11:13
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	109375	65625	153125	108335	-0.95
108 1,4-Difluorobenze	406799	244079	569519	385237	-5.30
153 Chlorobenzene-d5	400841	240505	561177	403350	0.63

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.79	5.46	6.12	5.79	-0.00
108 1,4-Difluorobenze	6.66	6.33	6.99	6.67	0.11
153 Chlorobenzene-d5	9.46	9.13	9.79	9.46	-0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 24-Aug-2021 10:56

US32TAR1

RECOVERY REPORT

Client Name: Client SDG: 20AUG21
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 2108390-06A
Level: LOW Operator: mjb
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT20_new.spk Quant Type: ISTD
Sublist File: AEC25677.sub
Method File: /chem/msdp.i/20AUG21.b/p21q0519a.m
Misc Info: 6.0 Hg->10 psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 104 1,2-Dichloroethan	25.000	27.210	108.84	70-130
$ 134 Toluene-d8	25.000	25.220	100.88	70-130
$ 170 4-Bromofluorobenz	25.000	26.467	105.87	70-130

Data File: /chem/msdp.i/20AUG21.b/p082013.d

Date : 20-AUG-2021 18:24

Client ID:

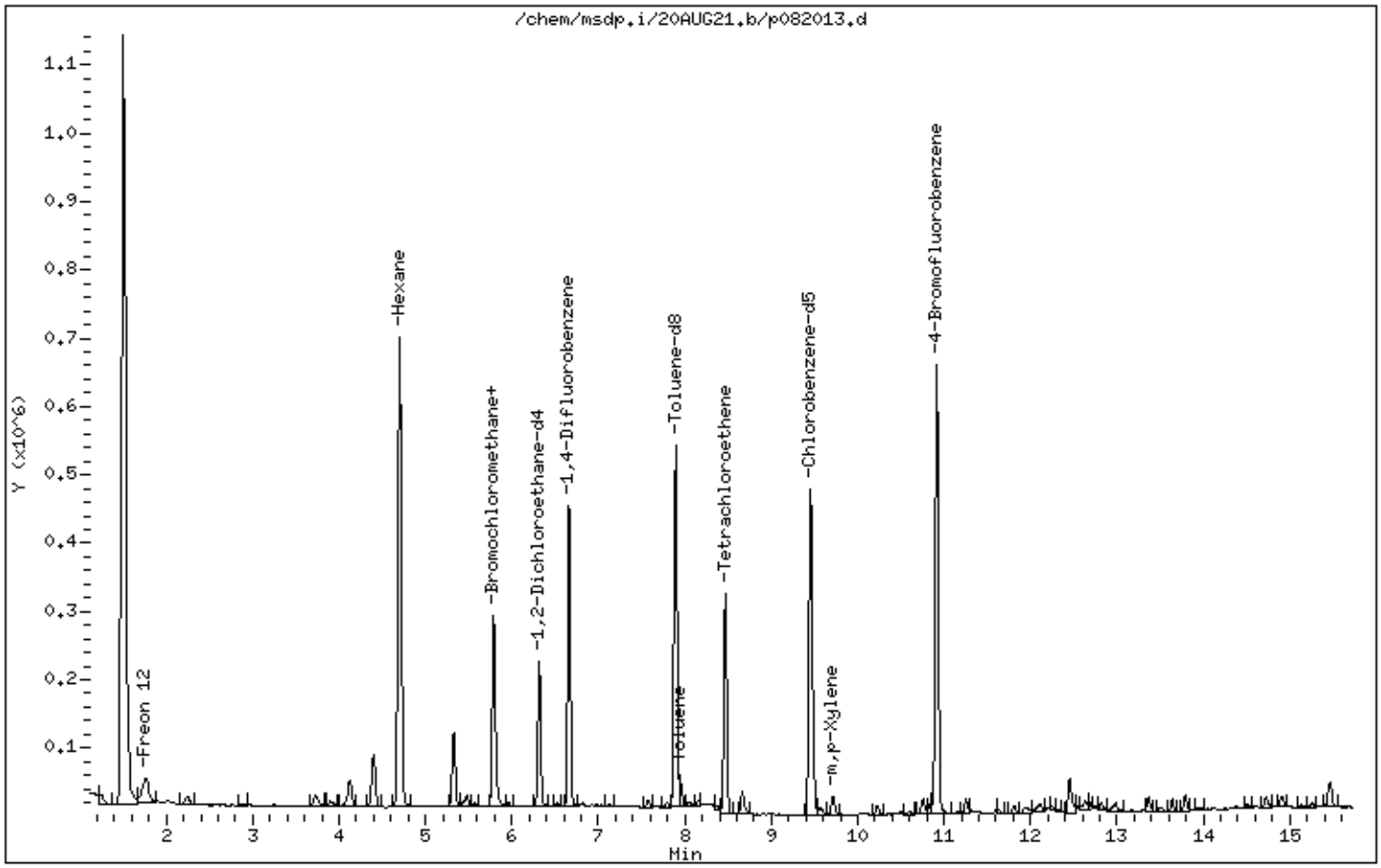
Instrument: msdp.i

Sample Info: 200ml 00255

Operator: mjb

Column phase: RTX-624

Column diameter: 0.25



Data File: /chem/msdp.i/20AUG21.b/p082013.d

Date : 20-AUG-2021 18:24

Client ID:

Instrument: msdp.i

Sample Info: 200ml 00255

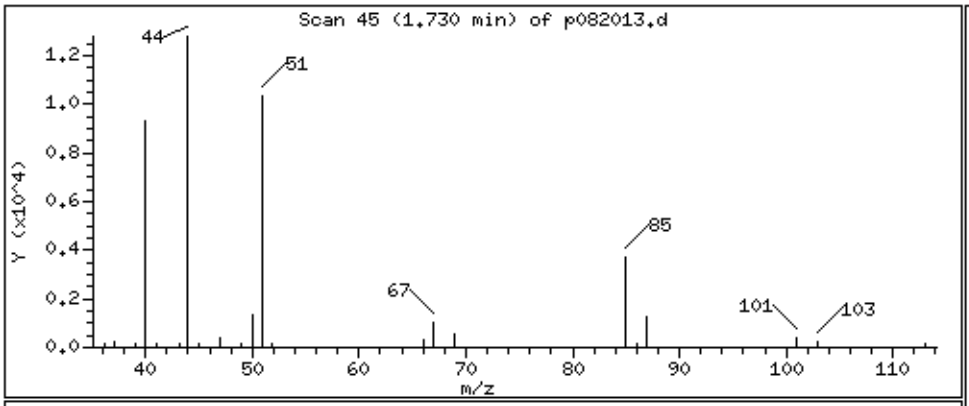
Operator: mjb

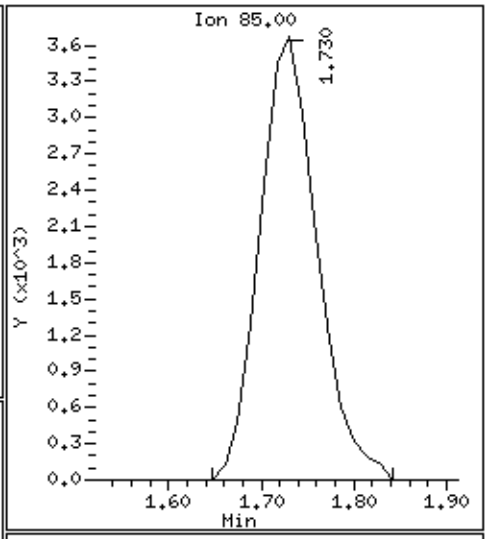
Column phase: RTX-624

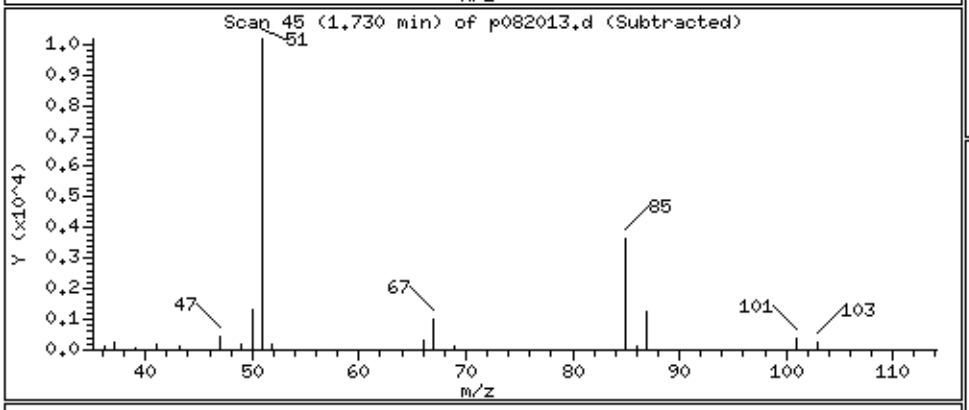
Column diameter: 0.25

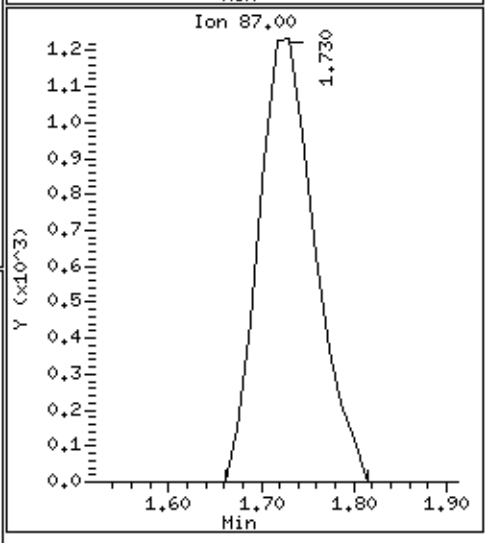
8 Freon 12

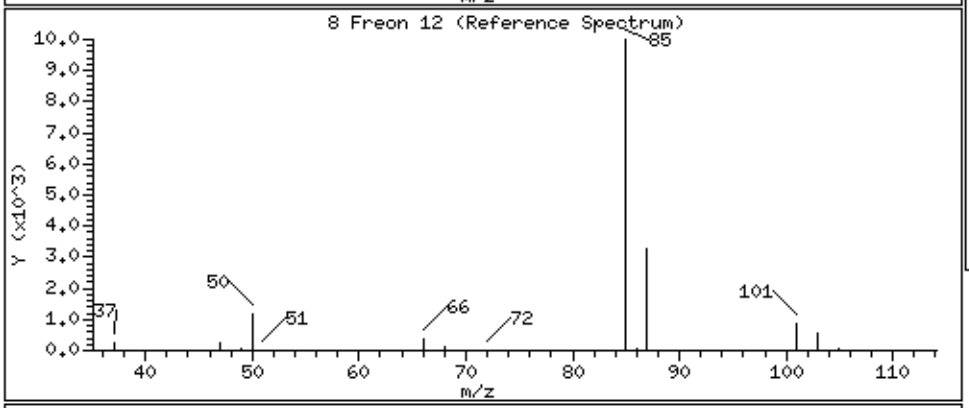
Concentration: 3.433 PPBV

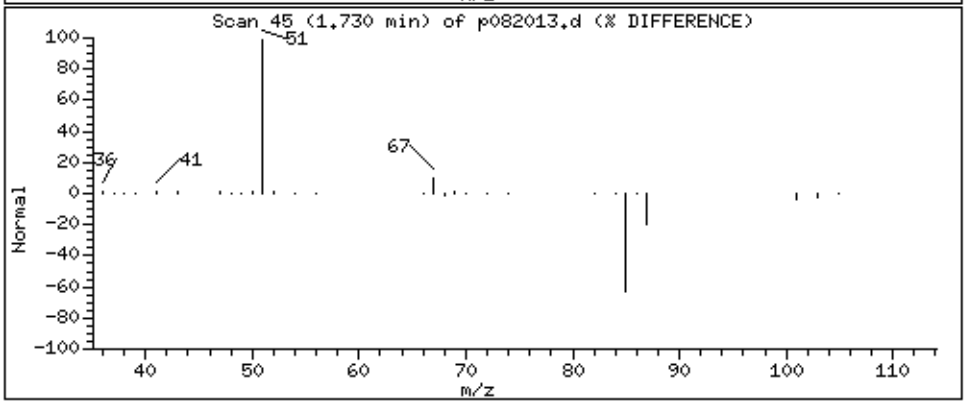












Data File: /chem/msdp.i/20AUG21.b/p082013.d

Date : 20-AUG-2021 18:24

Client ID:

Instrument: msdp.i

Sample Info: 200ml 00255

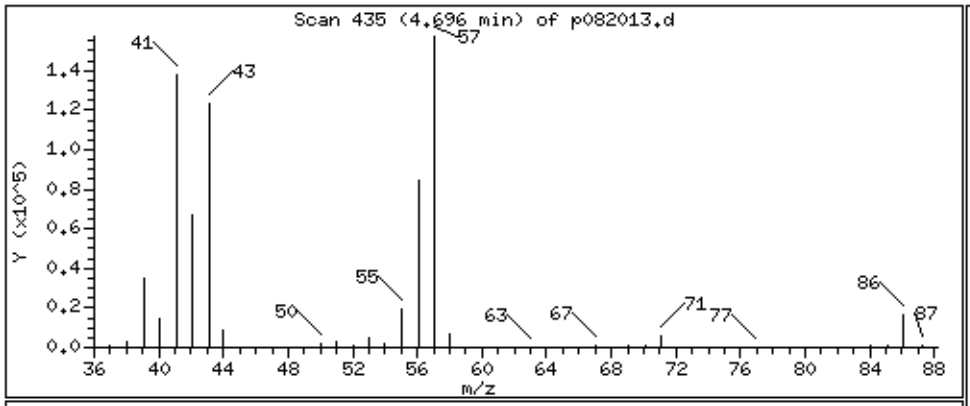
Operator: mjb

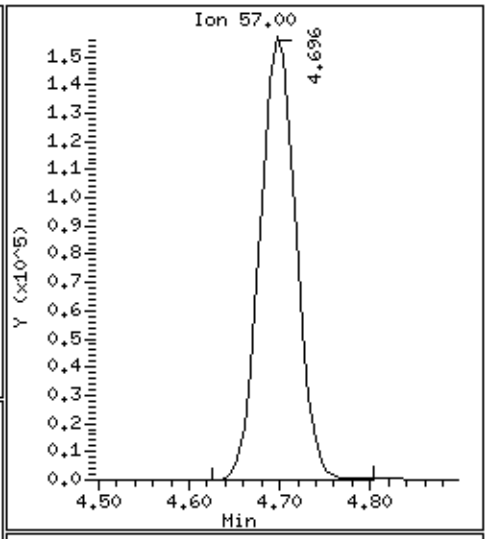
Column phase: RTX-624

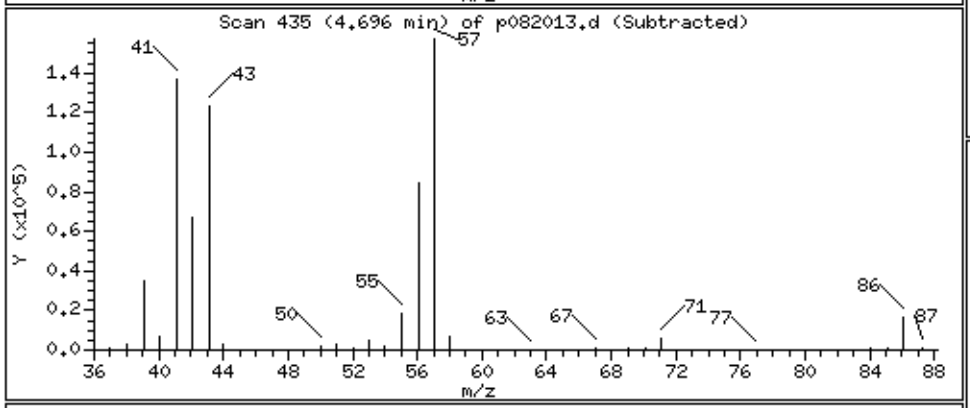
Column diameter: 0.25

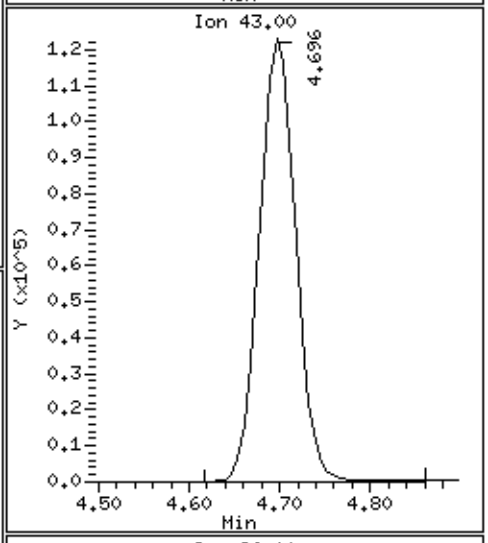
67 Hexane

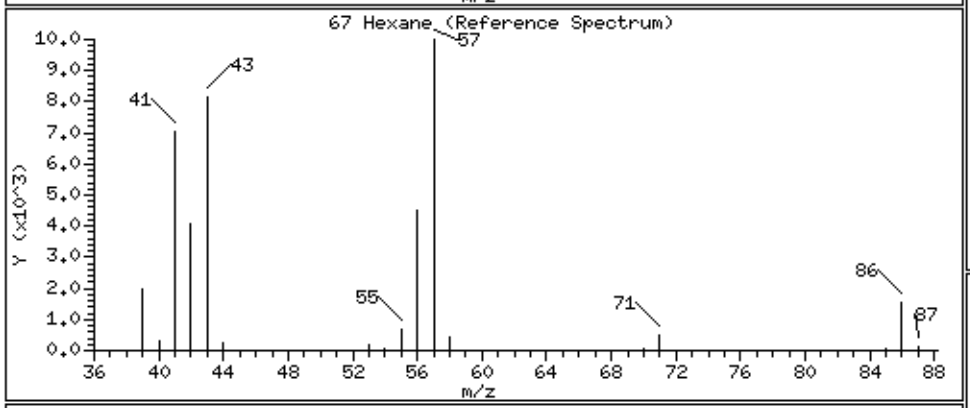
Concentration: 86.140 PPBV

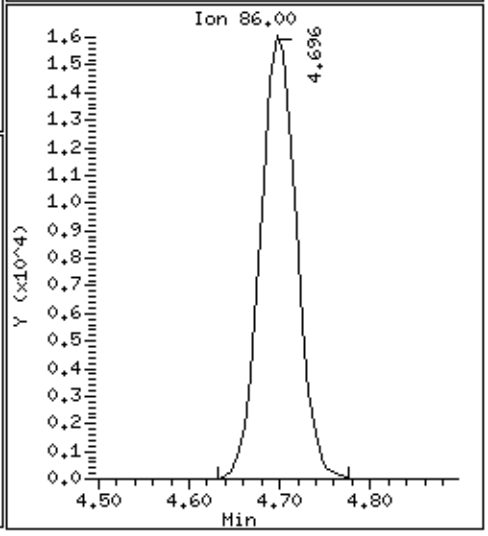


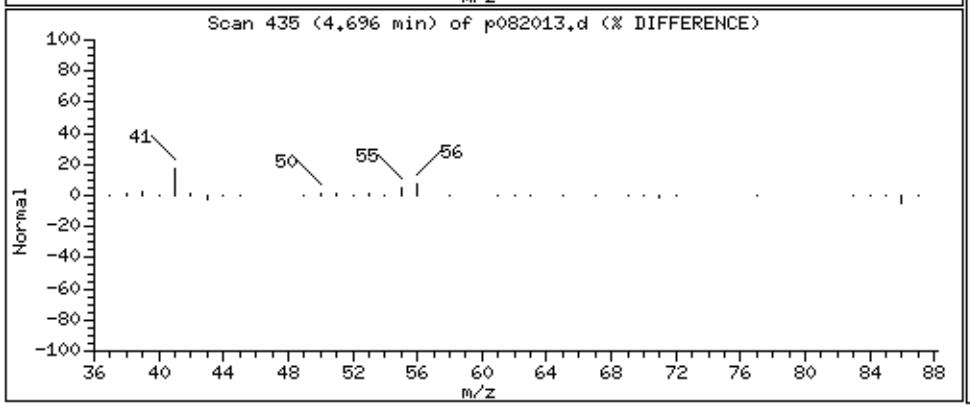












Data File: /chem/msdp.i/20AUG21.b/p082013.d

Date : 20-AUG-2021 18:24

Client ID:

Instrument: msdp.i

Sample Info: 200ml 00255

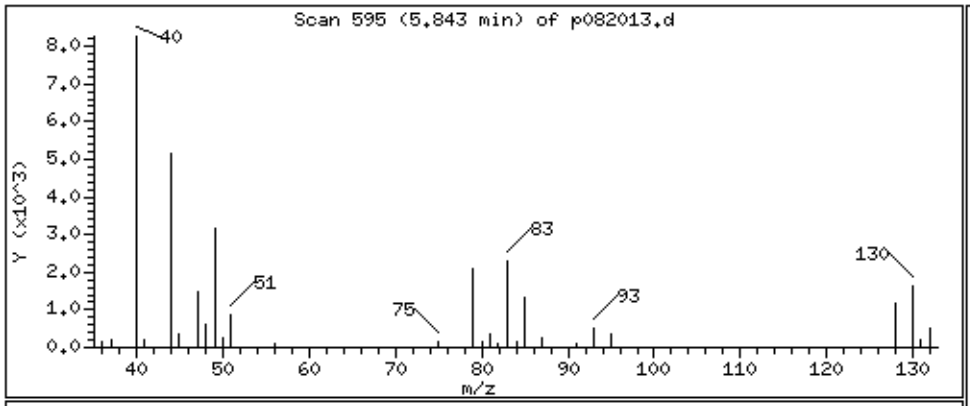
Operator: mjb

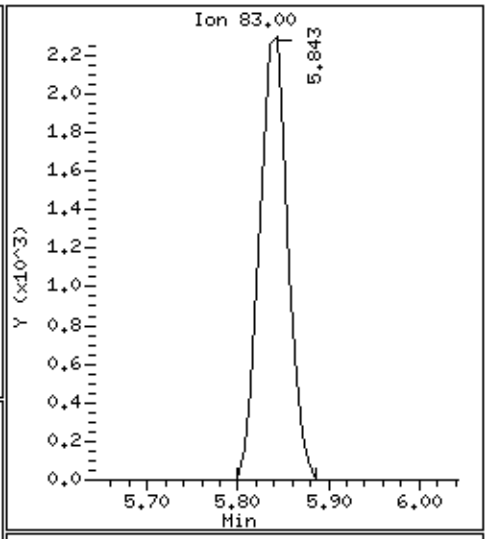
Column phase: RTX-624

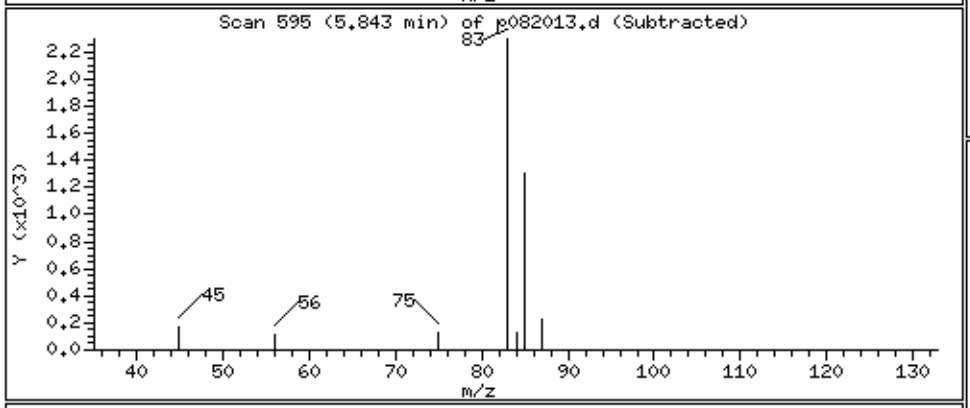
Column diameter: 0.25

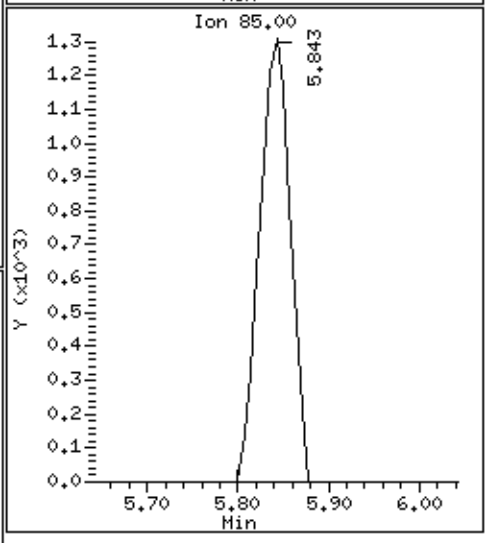
92 Chloroform

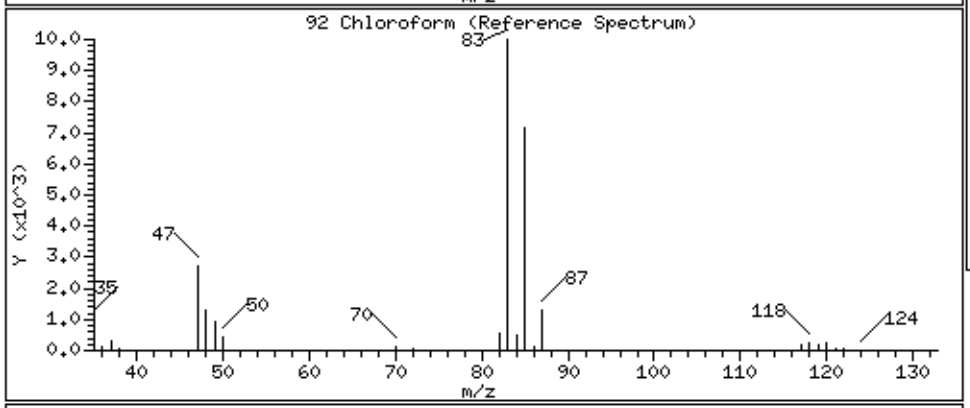
Concentration: 1.115 PPBV

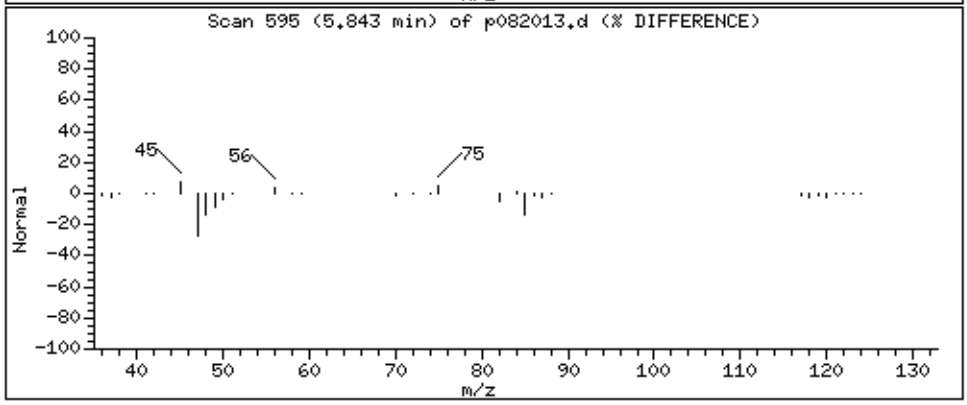












Data File: /chem/msdp.i/20AUG21.b/p082013.d

Date : 20-AUG-2021 18:24

Client ID:

Instrument: msdp.i

Sample Info: 200ml 00255

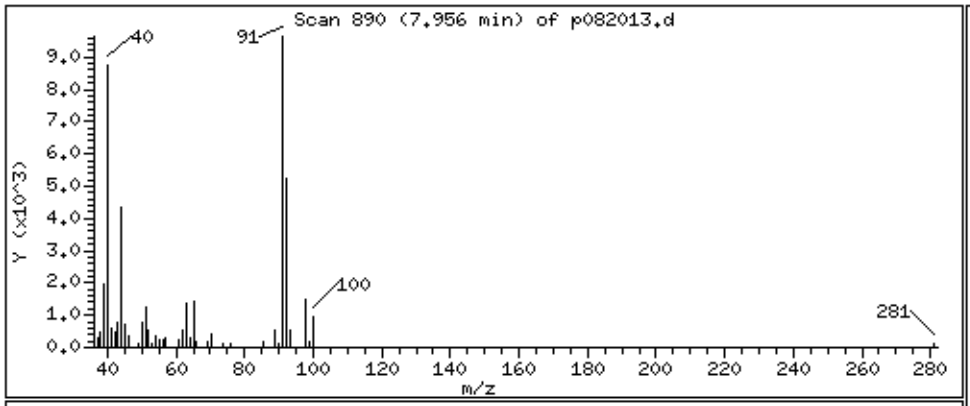
Operator: mjb

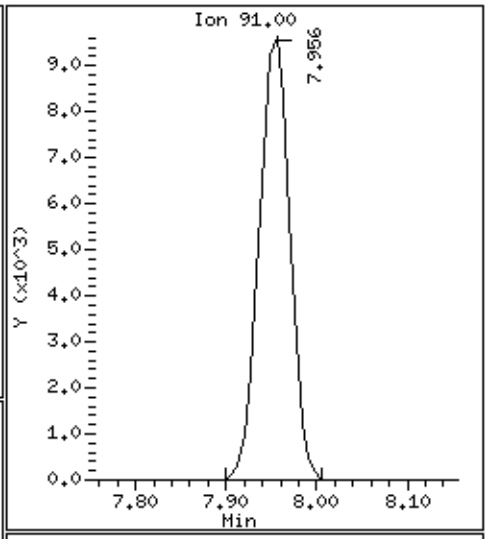
Column phase: RTX-624

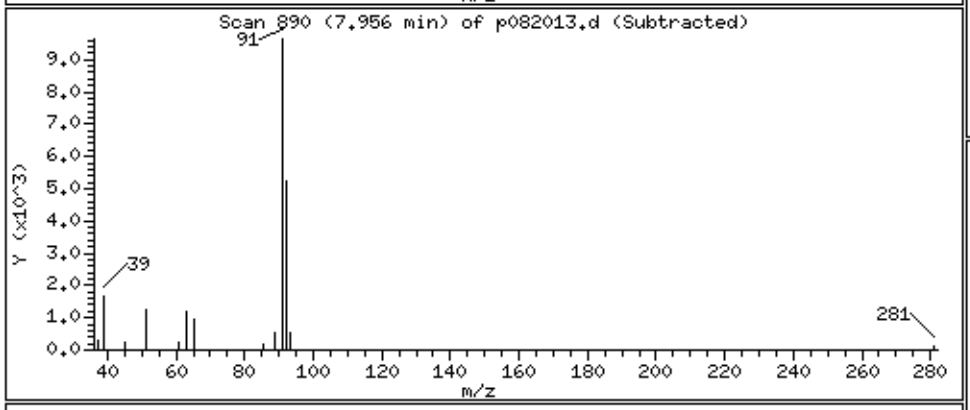
Column diameter: 0.25

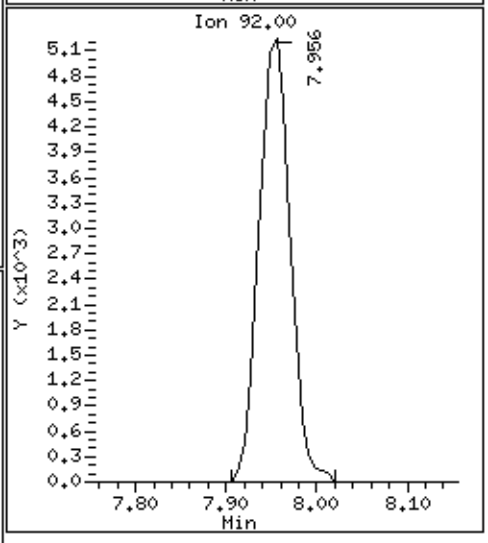
137 Toluene

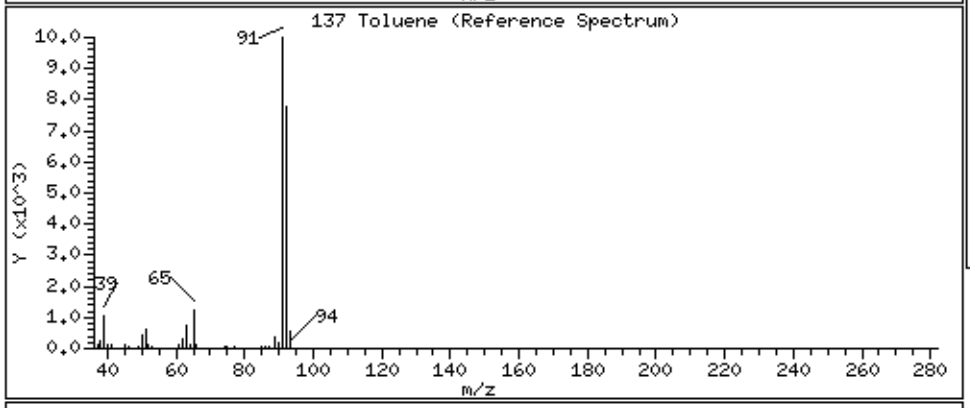
Concentration: 2.733 PPBV

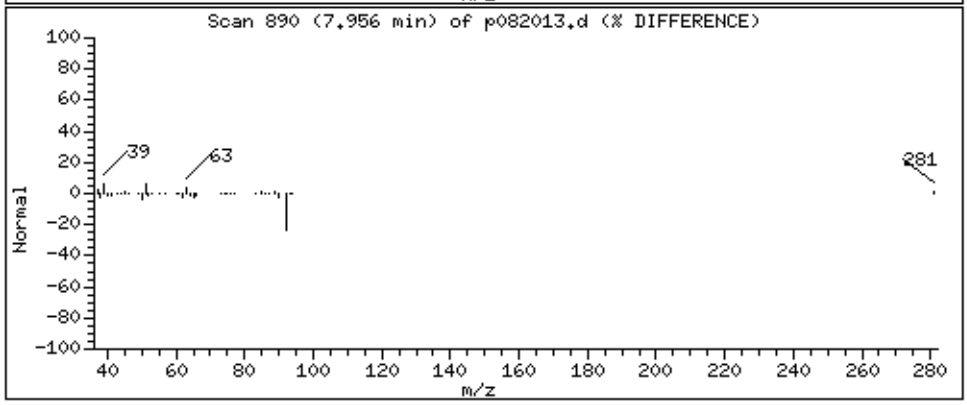












Data File: /chem/msdp.i/20AUG21.b/p082013.d

Date : 20-AUG-2021 18:24

Client ID:

Instrument: msdp.i

Sample Info: 200ml 00255

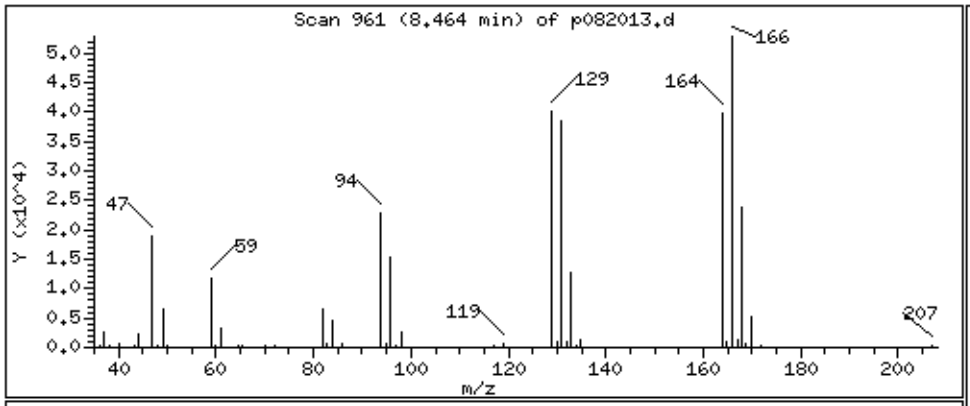
Operator: mjb

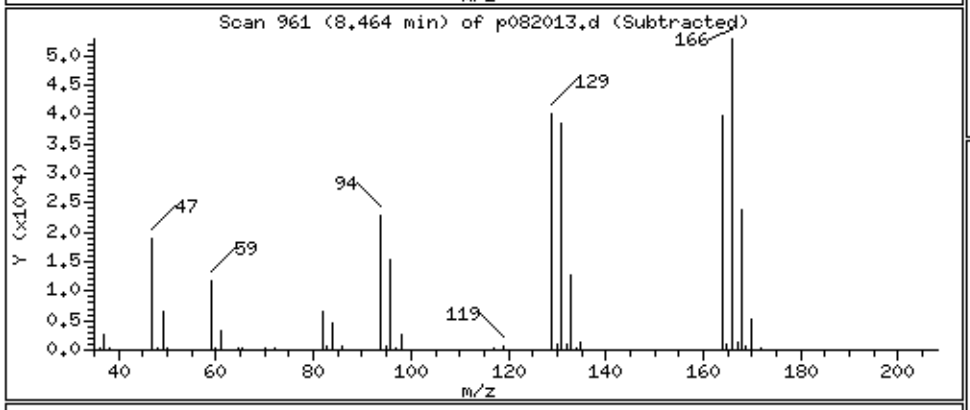
Column phase: RTX-624

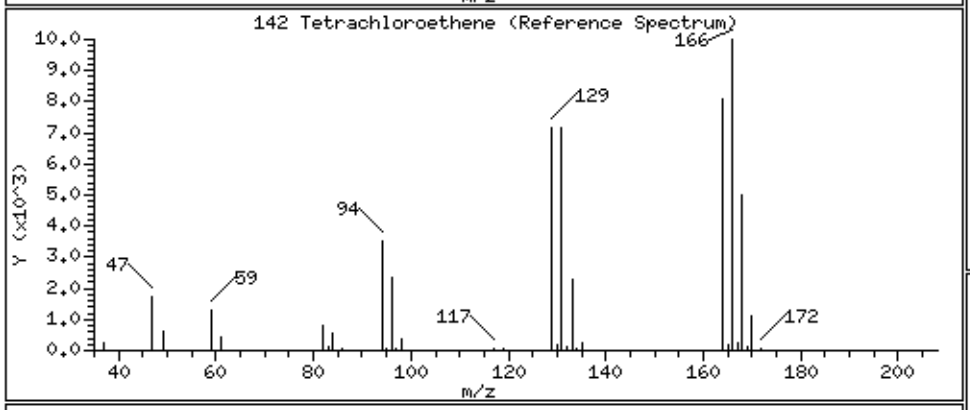
Column diameter: 0.25

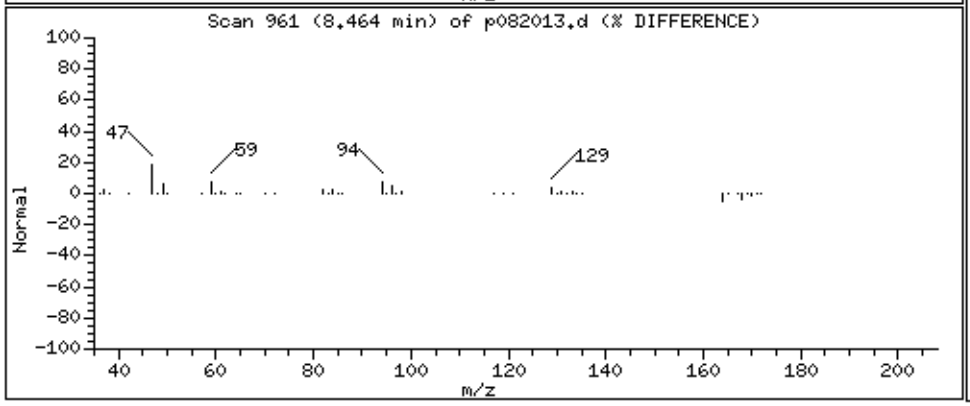
142 Tetrachloroethene

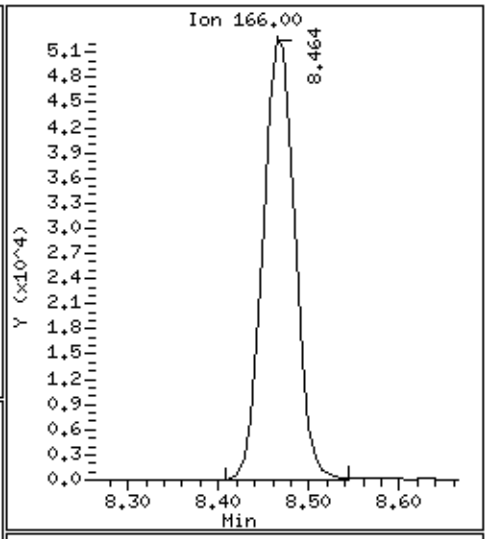
Concentration: 29.626 PPBV

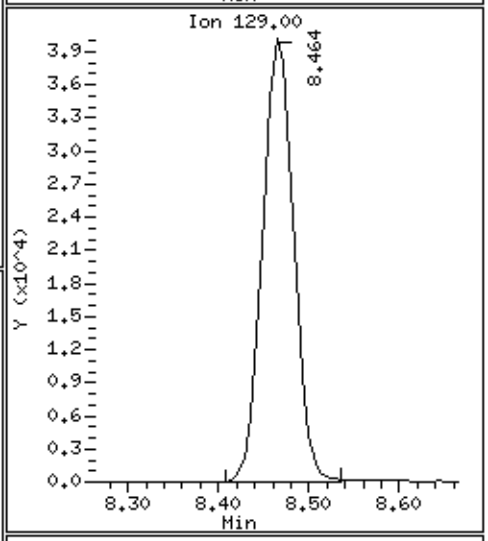


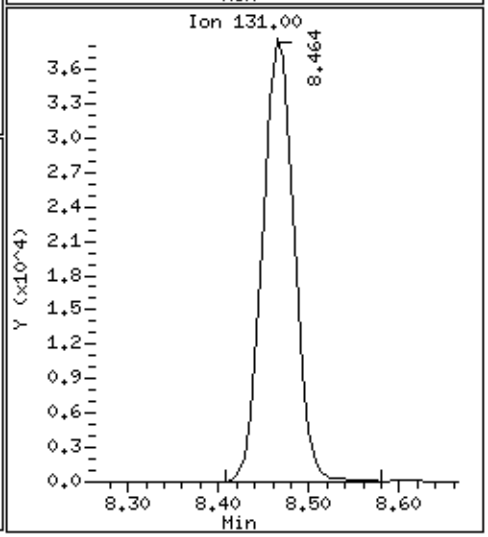












Data File: /chem/msdp.i/20AUG21.b/p082013.d

Date : 20-AUG-2021 18:24

Client ID:

Instrument: msdp.i

Sample Info: 200ml 00255

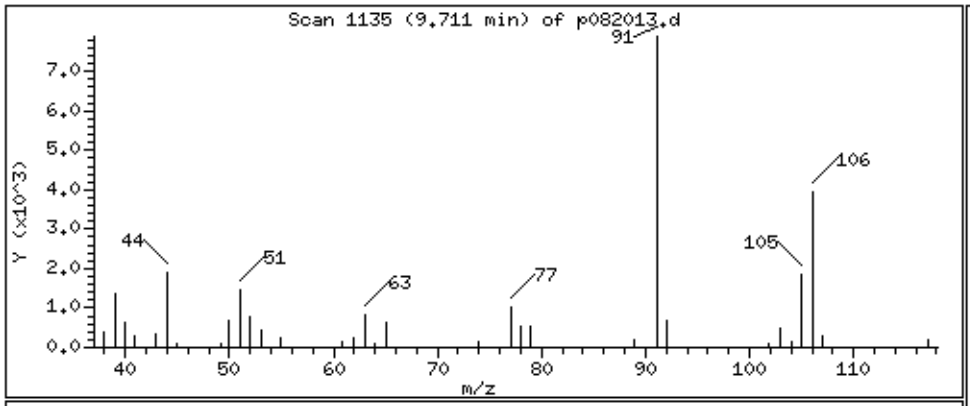
Operator: mjb

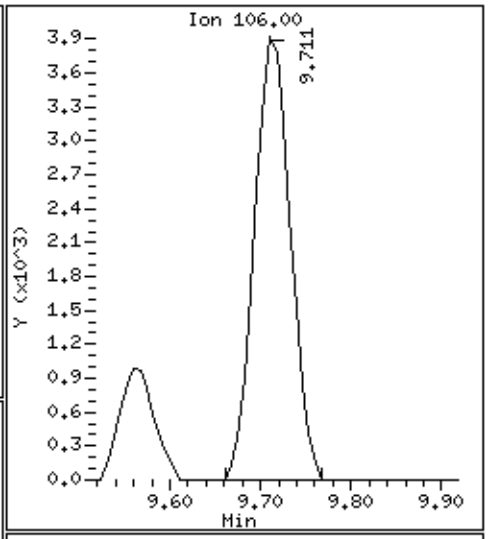
Column phase: RTX-624

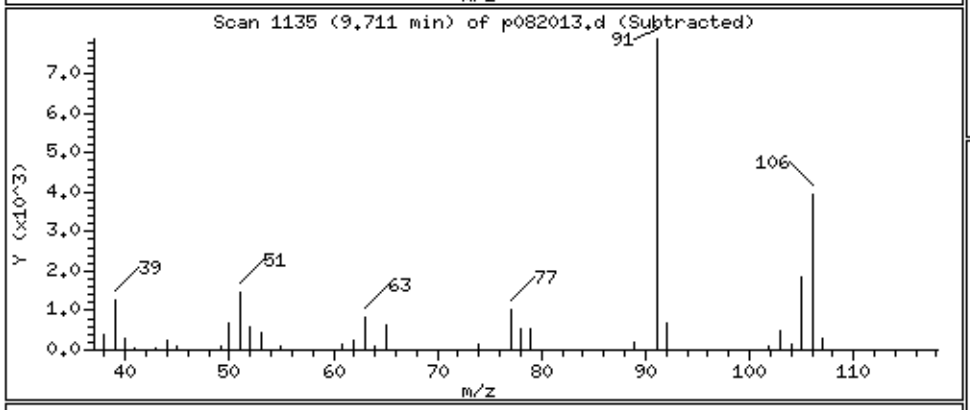
Column diameter: 0.25

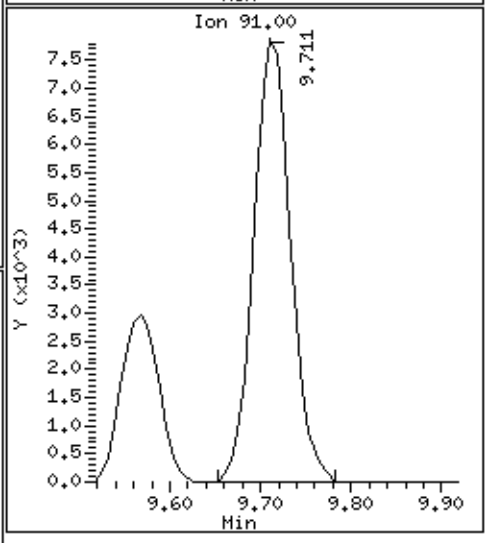
158 m,p-Xylene

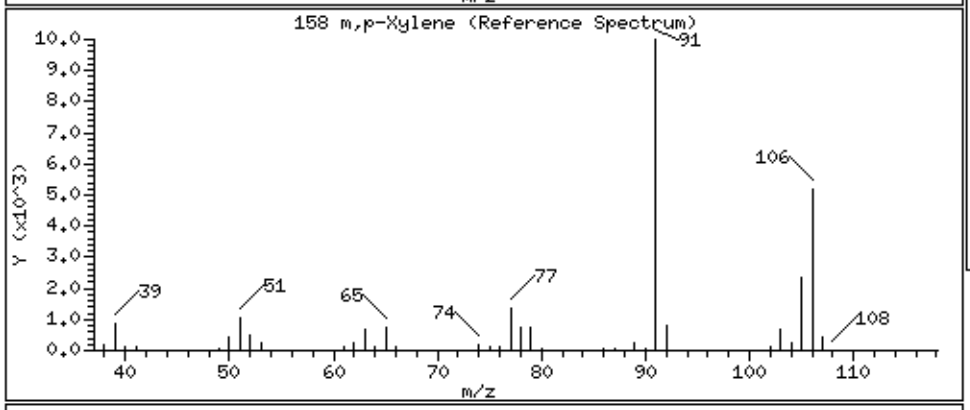
Concentration: 2.173 PPBV

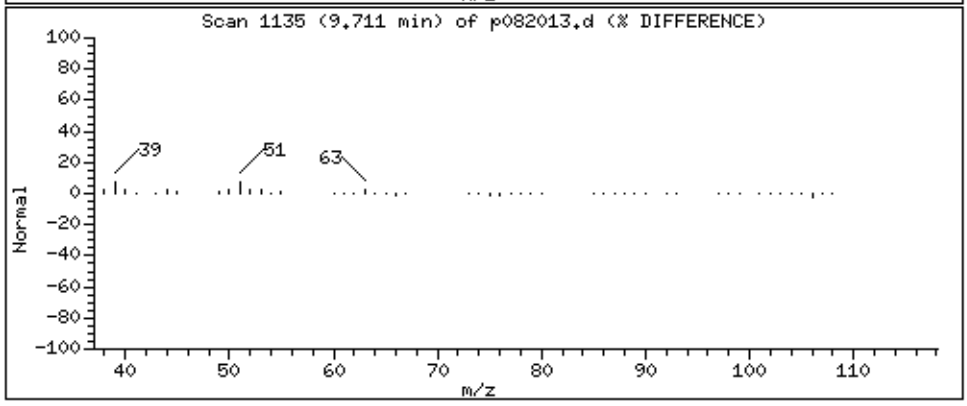












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Client Sample ID: SG-VW60A-02

Lab ID#: 2108390-07A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p082014**	**Date of Collection:**	**8/16/21 12:53:00 PM**
Dil. Factor:	**2.02**	**Date of Analysis:**	**8/20/21 06:53 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1,2-Tetrachloroethane	4.0	Not Detected	28	Not Detected
1,1,1-Trichloroethane	1.0	Not Detected	5.5	Not Detected
1,1,2,2-Tetrachloroethane	1.0	Not Detected	6.9	Not Detected
1,1,2-Trichloroethane	1.0	Not Detected	5.5	Not Detected
1,1-Dichloroethane	1.0	Not Detected	4.1	Not Detected
1,1-Dichloroethene	1.0	Not Detected	4.0	Not Detected
1,1-Difluoroethane	4.0	Not Detected	11	Not Detected
1,2,3-Trichloropropane	4.0	Not Detected	24	Not Detected
1,2,4-Trichlorobenzene	4.0	Not Detected	30	Not Detected
1,2,4-Trimethylbenzene	1.0	Not Detected	5.0	Not Detected
1,2-Dibromo-3-chloropropane	4.0	Not Detected	39	Not Detected
1,2-Dibromoethane (EDB)	1.0	Not Detected	7.8	Not Detected
1,2-Dichlorobenzene	1.0	Not Detected	6.1	Not Detected
1,2-Dichloroethane	1.0	Not Detected	4.1	Not Detected
1,2-Dichloropropane	1.0	Not Detected	4.7	Not Detected
1,3,5-Trimethylbenzene	1.0	Not Detected	5.0	Not Detected
1,3-Butadiene	1.0	Not Detected	2.2	Not Detected
1,3-Dichlorobenzene	1.0	Not Detected	6.1	Not Detected
1,4-Dichlorobenzene	1.0	Not Detected	6.1	Not Detected
1,4-Dioxane	4.0	Not Detected	14	Not Detected
2,2,4-Trimethylpentane	1.0	Not Detected	4.7	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.0	Not Detected	12	Not Detected
2-Hexanone	4.0	Not Detected	16	Not Detected
2-Propanol	4.0	Not Detected	9.9	Not Detected
3-Chloropropene	4.0	Not Detected	13	Not Detected
4-Ethyltoluene	1.0	Not Detected	5.0	Not Detected
4-Methyl-2-pentanone	1.0	Not Detected	4.1	Not Detected
Acetone	10	Not Detected	24	Not Detected
Acrolein	4.0	Not Detected	9.3	Not Detected
Acrylonitrile	4.0	Not Detected	8.8	Not Detected
alpha-Chlorotoluene	1.0	Not Detected	5.2	Not Detected
Benzene	1.0	1.5	3.2	4.7
Bromodichloromethane	1.0	Not Detected	6.8	Not Detected
Bromoform	1.0	Not Detected	10	Not Detected
Bromomethane	10	Not Detected	39	Not Detected
Carbon Disulfide	4.0	Not Detected	12	Not Detected
Carbon Tetrachloride	1.0	Not Detected	6.4	Not Detected
Chlorobenzene	1.0	Not Detected	4.6	Not Detected
Chloroethane	4.0	Not Detected	11	Not Detected
Chloroform	1.0	Not Detected	4.9	Not Detected
Chloromethane	10	Not Detected	21	Not Detected
cis-1,2-Dichloroethene	1.0	Not Detected	4.0	Not Detected

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Client Sample ID: SG-VW60A-02

Lab ID#: 2108390-07A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p082014**	**Date of Collection:**	**8/16/21 12:53:00 PM**
Dil. Factor:	**2.02**	**Date of Analysis:**	**8/20/21 06:53 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,3-Dichloropropene	1.0	Not Detected	4.6	Not Detected
Cumene	1.0	Not Detected	5.0	Not Detected
Cyclohexane	1.0	Not Detected	3.5	Not Detected
Dibromochloromethane	1.0	Not Detected	8.6	Not Detected
Dibromomethane	4.0	Not Detected	29	Not Detected
Ethanol	10	Not Detected	19	Not Detected
Ethyl Acetate	4.0	Not Detected	14	Not Detected
Ethyl Benzene	1.0	Not Detected	4.4	Not Detected
Ethyl-tert-butyl ether	4.0	Not Detected	17	Not Detected
Freon 11	1.0	Not Detected	5.7	Not Detected
Freon 12	1.0	1.6	5.0	7.7
Freon 113	1.0	Not Detected	7.7	Not Detected
Freon 114	1.0	Not Detected	7.1	Not Detected
Freon 134a	4.0	Not Detected	17	Not Detected
Heptane	1.0	Not Detected	4.1	Not Detected
Hexachlorobutadiene	4.0	Not Detected	43	Not Detected
Hexachloroethane	4.0	Not Detected	39	Not Detected
Hexane	1.0	120	3.6	420
Iodomethane	10	Not Detected	59	Not Detected
Isopropyl ether	4.0	Not Detected	17	Not Detected
m,p-Xylene	1.0	2.2	4.4	9.8
Methyl tert-butyl ether	4.0	Not Detected	14	Not Detected
Methylene Chloride	10	Not Detected	35	Not Detected
Naphthalene	2.0	Not Detected	10	Not Detected
o-Xylene	1.0	1.1	4.4	4.6
Propylbenzene	1.0	Not Detected	5.0	Not Detected
Propylene	4.0	Not Detected	7.0	Not Detected
Styrene	1.0	Not Detected	4.3	Not Detected
tert-Amyl methyl ether	4.0	Not Detected	17	Not Detected
tert-Butyl alcohol	4.0	Not Detected	12	Not Detected
Tetrachloroethene	1.0	14	6.8	96
Tetrahydrofuran	1.0	Not Detected	3.0	Not Detected
Toluene	1.0	1.9	3.8	7.0
TPH ref. to Gasoline (MW=100)	100	230	410	940
trans-1,2-Dichloroethene	1.0	Not Detected	4.0	Not Detected
trans-1,3-Dichloropropene	1.0	Not Detected	4.6	Not Detected
Trichloroethene	1.0	Not Detected	5.4	Not Detected
Vinyl Acetate	4.0	Not Detected	14	Not Detected
Vinyl Bromide	4.0	Not Detected	18	Not Detected
Vinyl Chloride	1.0	Not Detected	2.6	Not Detected

Container Type: 1 Liter Summa Canister

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Client Sample ID: SG-VW60A-02

Lab ID#: 2108390-07A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p082014**	**Date of Collection:**	**8/16/21 12:53:00 PM**
Dil. Factor:	**2.02**	**Date of Analysis:**	**8/20/21 06:53 PM**

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	108	70-130
4-Bromofluorobenzene	107	70-130

US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/20AUG21.b/p082014.d
Lab Smp Id: 2108390-07A
Inj Date : 20-AUG-2021 18:53
Operator : mjb Inst ID: msdp.i
Smp Info : 200ml 1L1569
Misc Info : 5.0 Hg->10 psi
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/20AUG21.b/p21q0519a.m
Meth Date : 20-Aug-2021 12:59 p5fl Quant Type: ISTD
Cal Date : 19-MAY-2021 19:45 Cal File: p051915.d
Als bottle: 7
Dil Factor: 2.02000
Integrator: HP RTE Compound Sublist: AEC25677.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE		(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 90 Bromochloromethane						CAS #: 74-97-5		
5.785	5.785 (1.000)	130	108206	25.0000			80.00- 120.00	100.00
5.785	5.785 (1.000)	128	82556				48.23- 108.23	76.30
5.785	5.778 (1.000)	49	243753				150.57- 210.57	225.27
* 108 1,4-Difluorobenzene						CAS #: 540-36-3		
6.666	6.659 (1.000)	114	388212	25.0000			80.00- 120.00	100.00
6.666	6.659 (1.000)	88	55694				0.00- 45.71	14.35
* 153 Chlorobenzene-d5						CAS #: 3114-55-4		
9.460	9.460 (1.000)	117	397526	25.0000			80.00- 120.00	100.00
9.460	9.460 (1.000)	82	205488				23.78- 83.78	51.69
$ 104 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
6.315	6.315 (1.092)	65	161809	27.0964	27.096		80.00- 120.00	100.00
6.315	6.315 (1.092)	67	75720				27.21- 87.21	46.80
$ 134 Toluene-d8						CAS #: 2037-26-5		
7.891	7.891 (1.184)	98	423568	25.1261	25.126		80.00- 120.00	100.00
7.891	7.891 (1.184)	70	44836				0.00- 40.44	10.59

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 134 Toluene-d8 (continued)							
7.891	7.891 (1.184)	100	275512			34.95- 94.95	65.05
$ 170 4-Bromofluorobenzene					CAS #: 460-00-4		
10.921	10.921 (1.154)	174	274031	26.8447	26.845	80.00- 120.00	100.00
10.921	10.914 (1.154)	95	315819			95.92- 155.92	115.25
10.921	10.921 (1.154)	176	255979			66.89- 126.89	93.41
8 Freon 12					CAS #: 75-71-8		
1.730	1.717 (0.299)	85	7458	0.76848	1.552	80.00- 120.00	100.00
1.730	1.717 (0.299)	87	2280			2.37- 62.37	30.58
67 Hexane					CAS #: 110-54-3		
4.696	4.697 (0.812)	57	631781	59.2691	119.72	80.00- 120.00	100.00
4.696	4.697 (0.812)	43	497373			37.52- 97.52	78.73
4.696	4.697 (0.812)	86	63375			0.00- 41.48	10.03
102 Benzene					CAS #: 71-43-2		
6.301	6.301 (0.945)	78	9288	0.72501	1.464	80.00- 120.00	100.00
6.301	6.301 (0.945)	77	2269			0.00- 52.90	24.43
137 Toluene					CAS #: 108-88-3		
7.956	7.956 (1.193)	91	16352	0.92517	1.869	80.00- 120.00	100.00
7.956	7.956 (1.193)	92	9515			28.38- 88.38	58.19
142 Tetrachloroethene					CAS #: 127-18-4		
8.464	8.464 (0.895)	166	63803	7.04232	14.225	80.00- 120.00	100.00
8.464	8.464 (0.895)	129	49715			47.84- 107.84	77.92
8.464	8.464 (0.895)	131	47054			45.29- 105.29	73.75
158 m,p-Xylene					CAS #: 108-38-3		
9.711	9.718 (1.026)	106	11506	1.11301	2.248	80.00- 120.00	100.00
9.711	9.718 (1.026)	91	21417			163.73- 223.73	186.14
164 o-Xylene					CAS #: 95-47-6		
10.233	10.226 (1.082)	106	5224	0.52743	1.065	80.00- 120.00	100.00
10.226	10.226 (1.081)	91	10873			177.45- 237.45	208.13

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p082014.d
Lab Smp Id: 2108390-07A
Analysis Type: VOA
Quant Type: ISTD
Operator: mjb
Method File: /chem/msdp.i/20AUG21.b/p21q0519a.m
Misc Info: 5.0 Hg->10 psi

Calibration Date: 20-AUG-2021
Calibration Time: 11:13
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	109375	65625	153125	108206	-1.07
108 1,4-Difluorobenze	406799	244079	569519	388212	-4.57
153 Chlorobenzene-d5	400841	240505	561177	397526	-0.83

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.79	5.46	6.12	5.79	-0.00
108 1,4-Difluorobenze	6.66	6.33	6.99	6.67	0.11
153 Chlorobenzene-d5	9.46	9.13	9.79	9.46	-0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 24-Aug-2021 12:39

US32TAR1

RECOVERY REPORT

Client Name: Client SDG: 20AUG21
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 2108390-07A
Level: LOW Operator: mjb
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT20_new.spk Quant Type: ISTD
Sublist File: AEC25677.sub
Method File: /chem/msdp.i/20AUG21.b/p21q0519a.m
Misc Info: 5.0 Hg->10 psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 104 1,2-Dichloroethan	25.000	27.096	108.39	70-130
$ 134 Toluene-d8	25.000	25.126	100.50	70-130
$ 170 4-Bromofluorobenz	25.000	26.845	107.38	70-130

Data File: /chem/msdp.i/20AUG21.b/p082014.d

Date : 20-AUG-2021 18:53

Client ID:

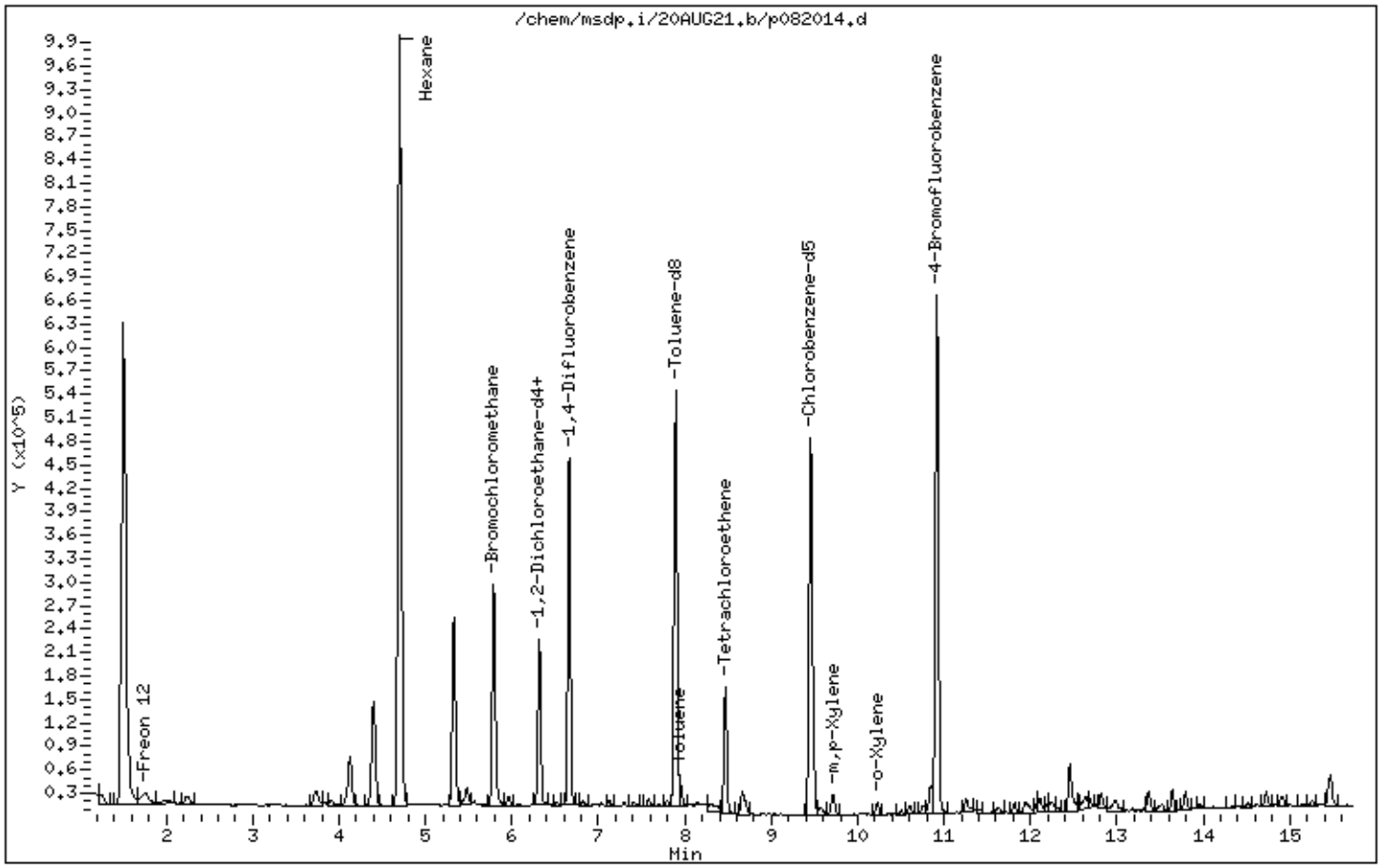
Instrument: msdp.i

Sample Info: 200ml 1L1569

Operator: mjb

Column phase: RTX-624

Column diameter: 0.25



Data File: /chem/msdp.i/20AUG21.b/p082014.d

Date : 20-AUG-2021 18:53

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1L1569

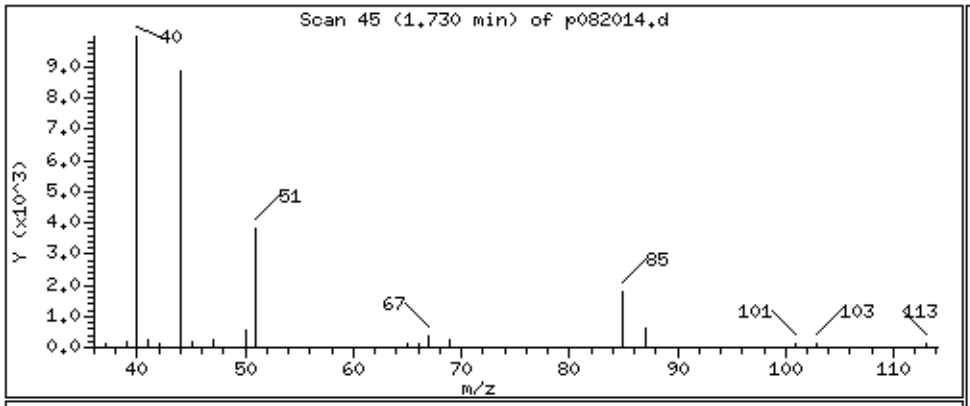
Operator: mjb

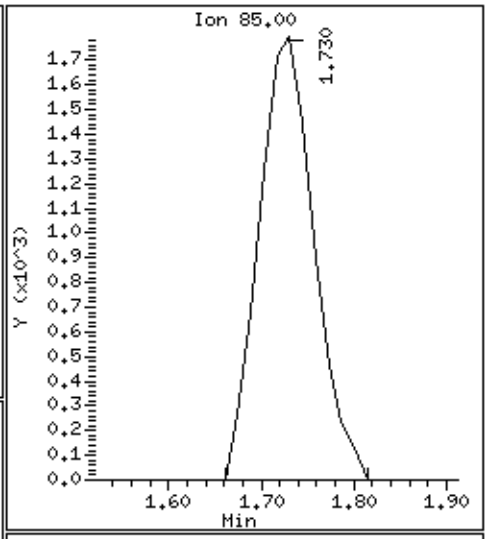
Column phase: RTX-624

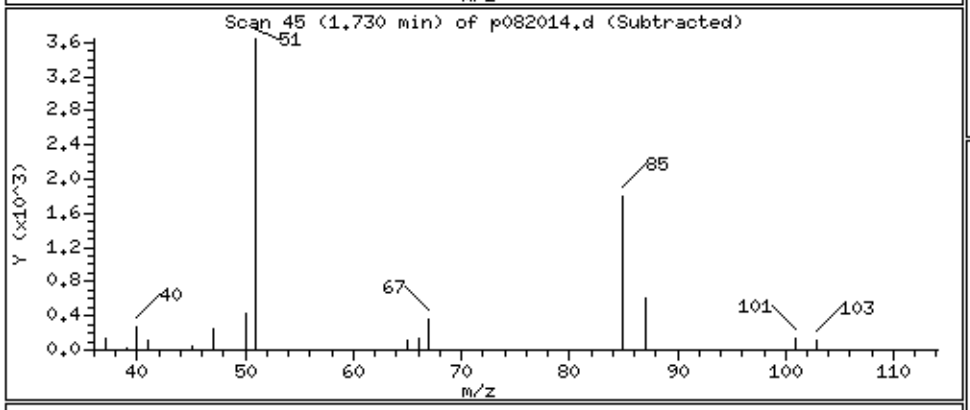
Column diameter: 0.25

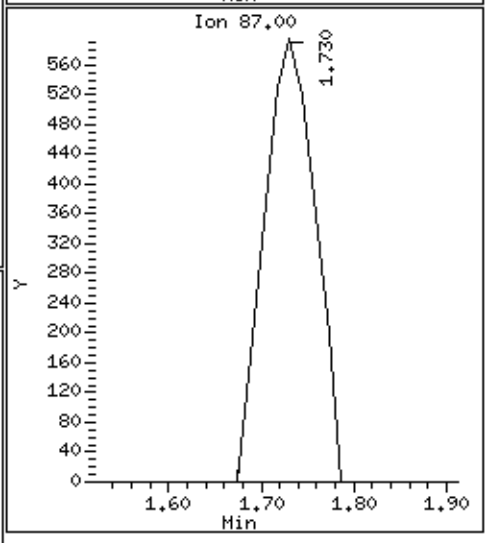
8 Freon 12

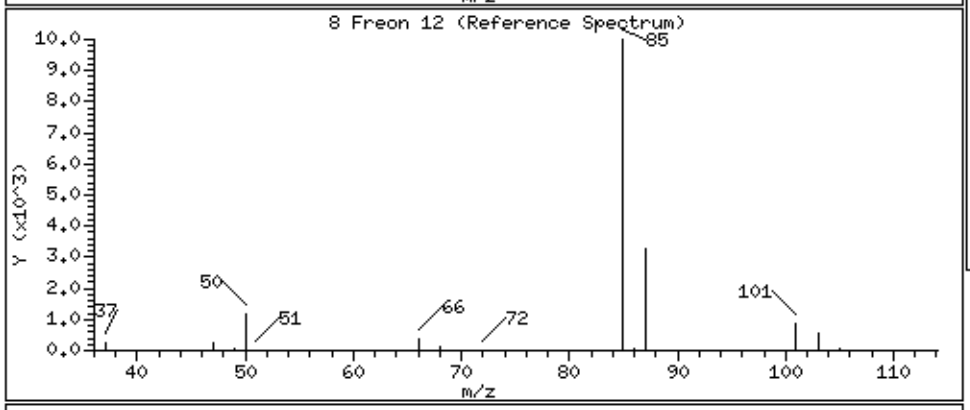
Concentration: 1.552 PPBV

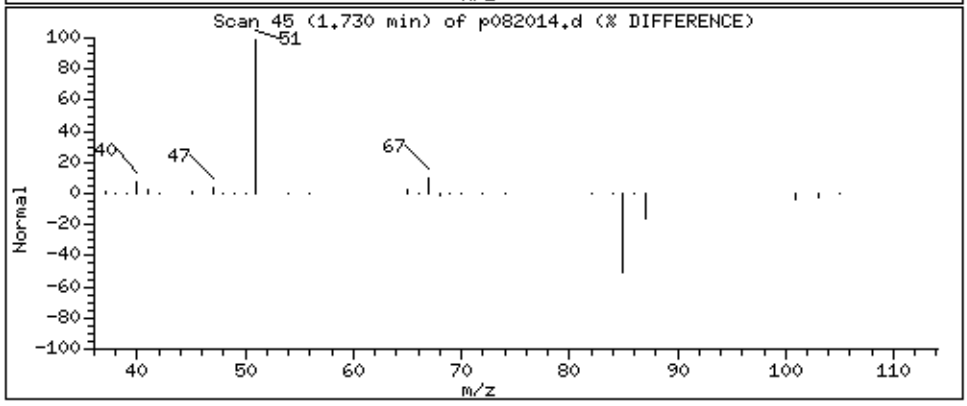












Data File: /chem/msdp.i/20AUG21.b/p082014.d

Date : 20-AUG-2021 18:53

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1L1569

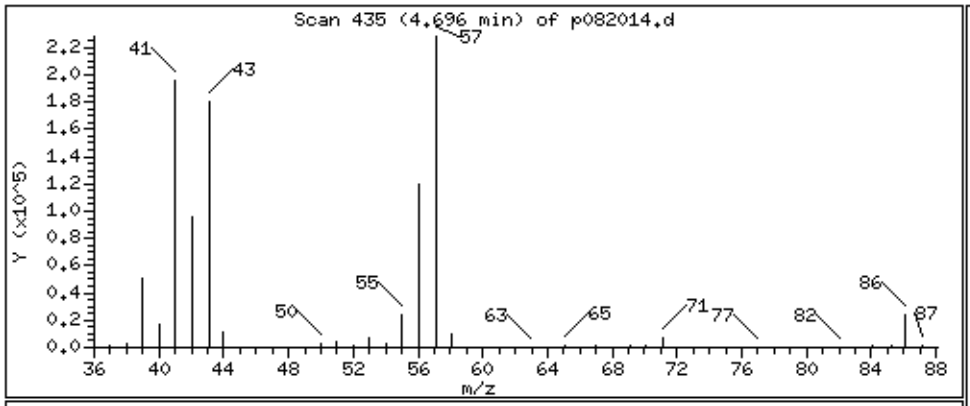
Operator: mjb

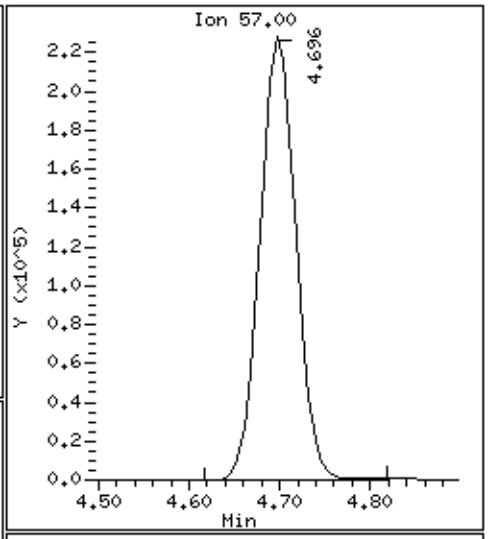
Column phase: RTX-624

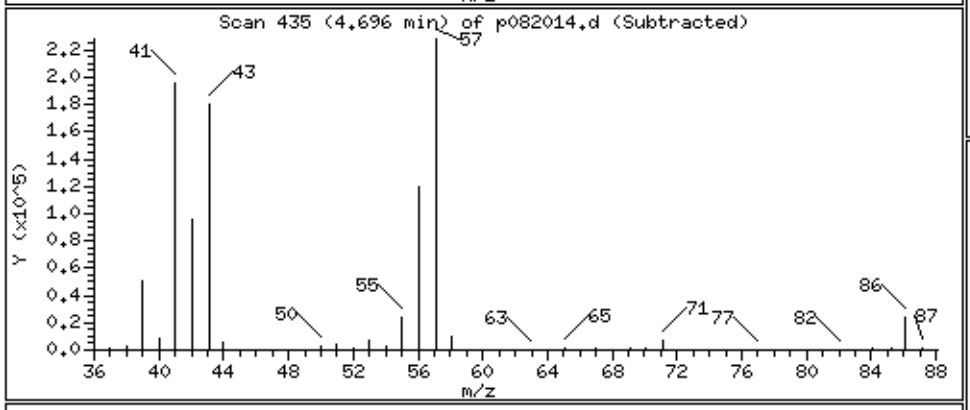
Column diameter: 0.25

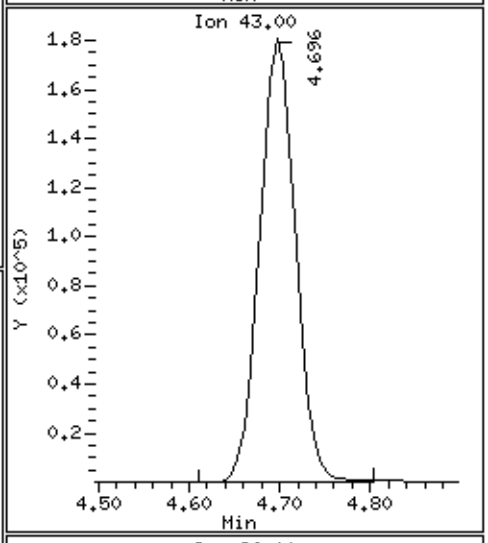
67 Hexane

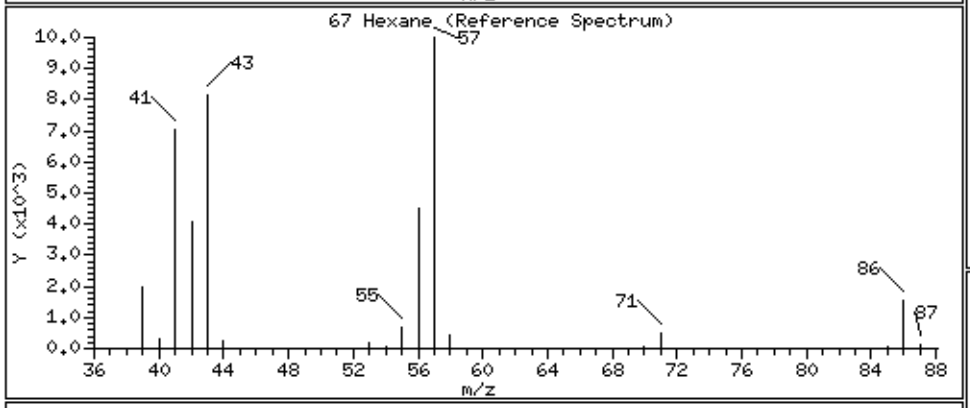
Concentration: 119.72 PPBV

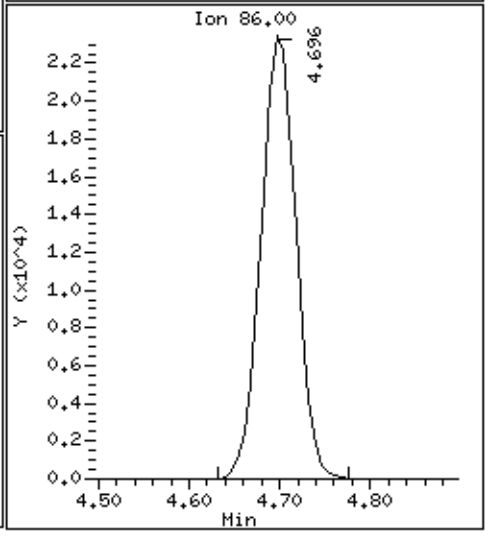


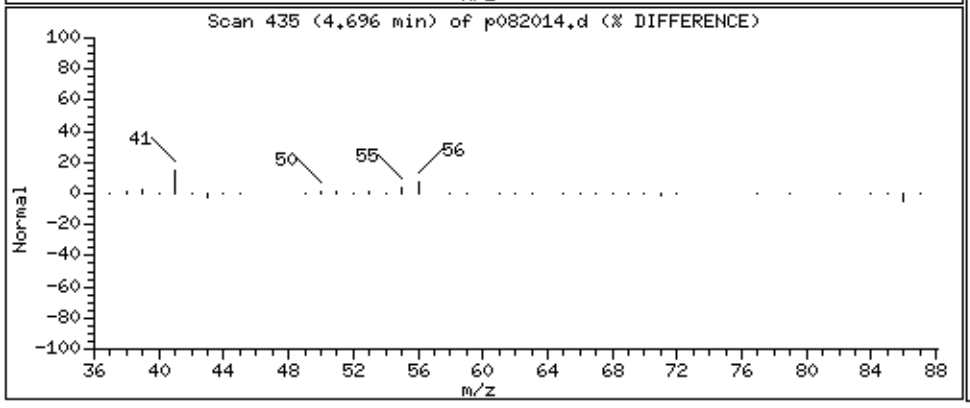












Data File: /chem/msdp.i/20AUG21.b/p082014.d

Date : 20-AUG-2021 18:53

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1L1569

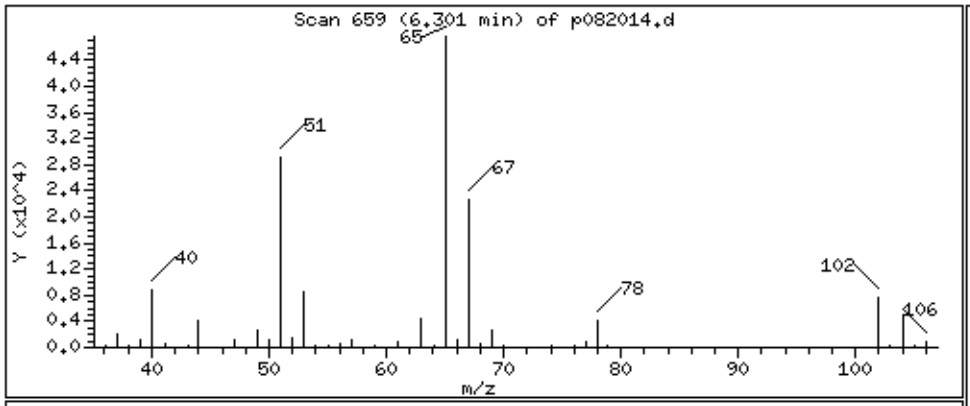
Operator: mjb

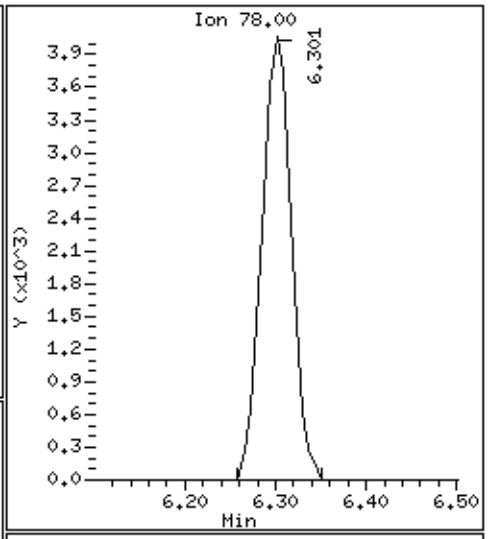
Column phase: RTX-624

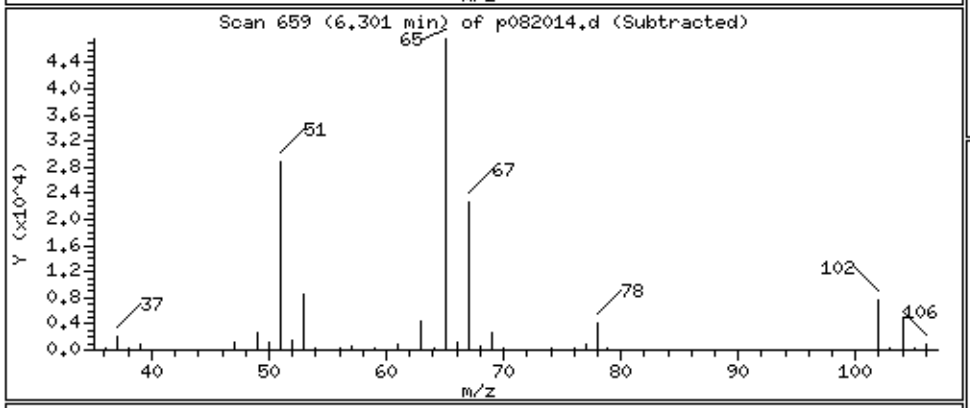
Column diameter: 0.25

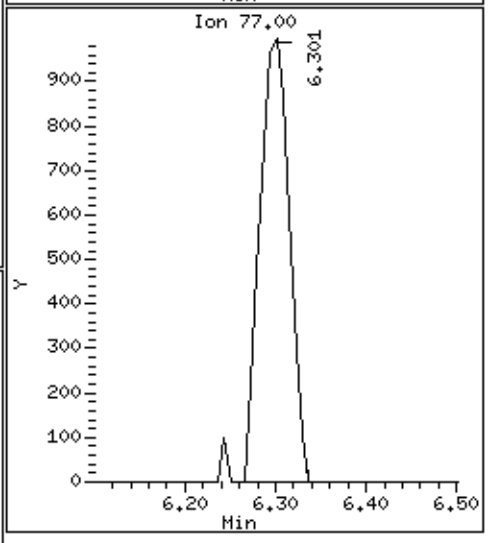
102 Benzene

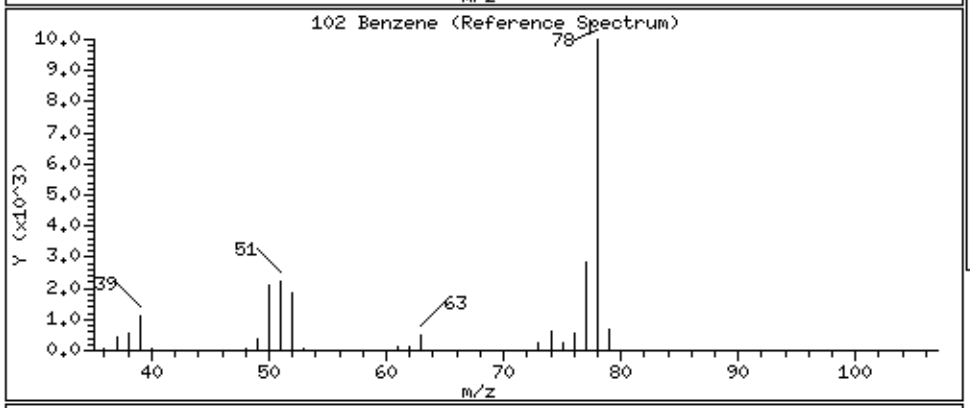
Concentration: 1.464 PPBV

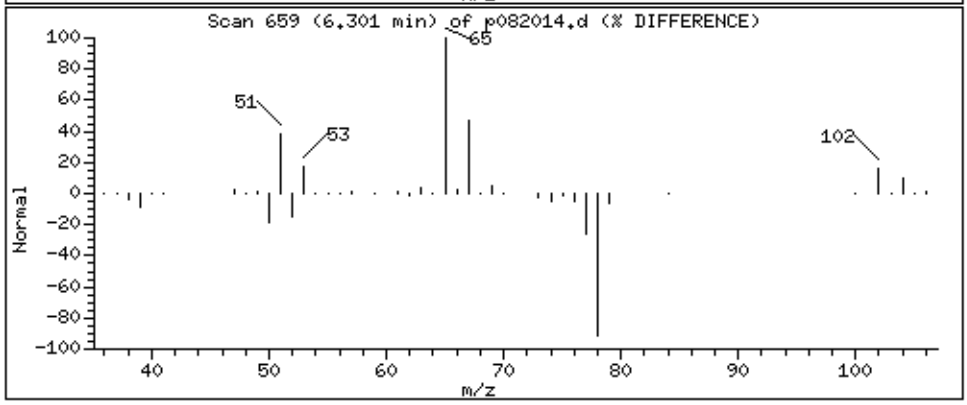












Data File: /chem/msdp.i/20AUG21.b/p082014.d

Date : 20-AUG-2021 18:53

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1L1569

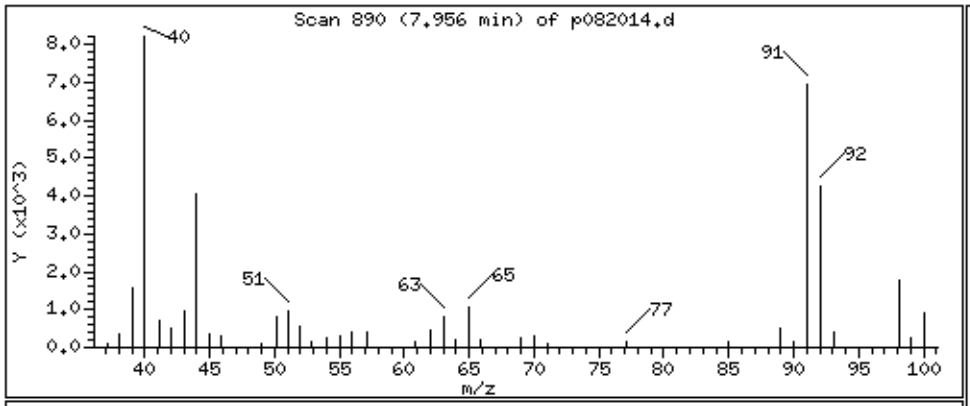
Operator: mjb

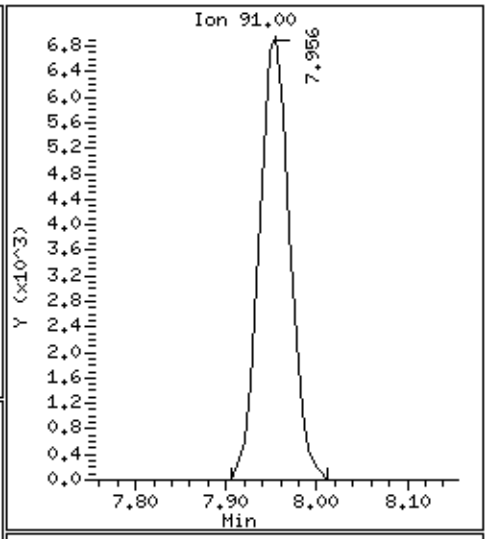
Column phase: RTX-624

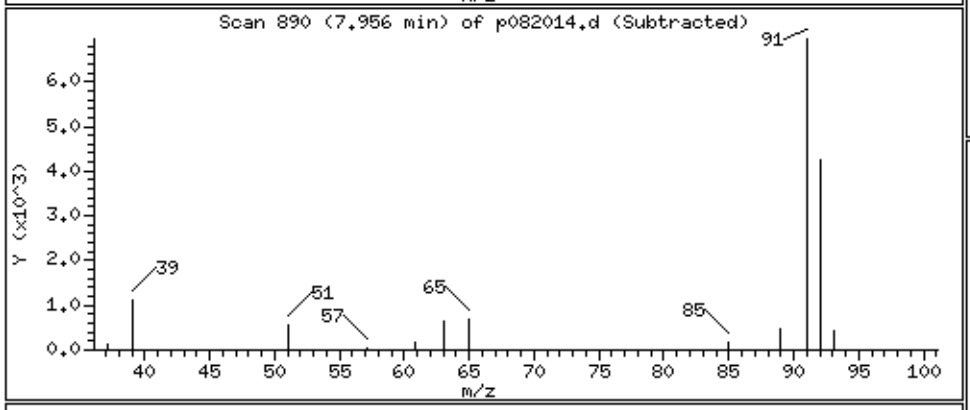
Column diameter: 0.25

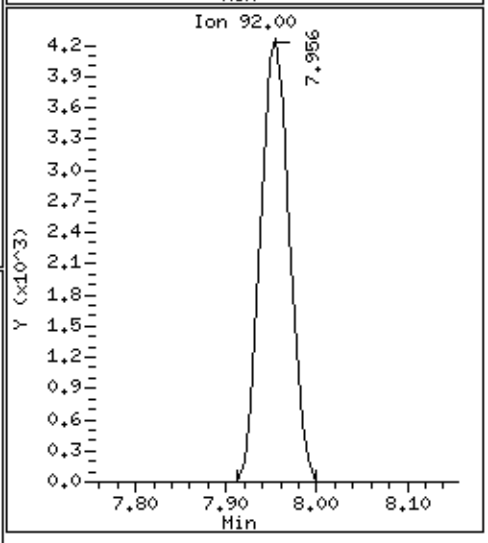
137 Toluene

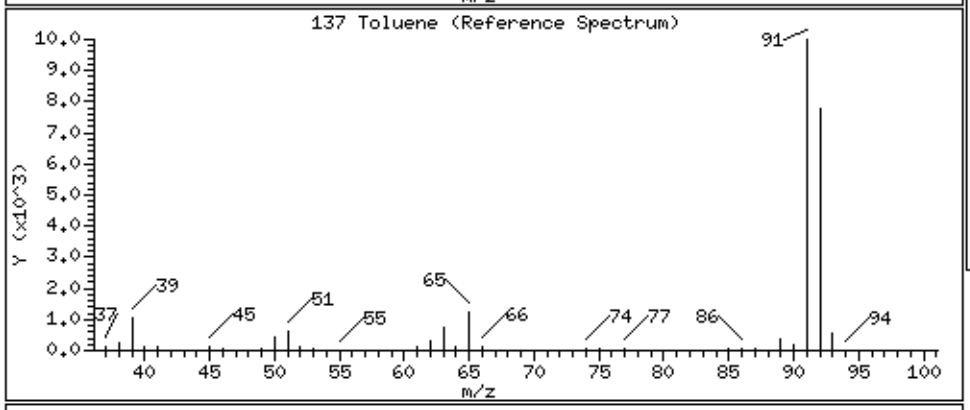
Concentration: 1.869 PPBV

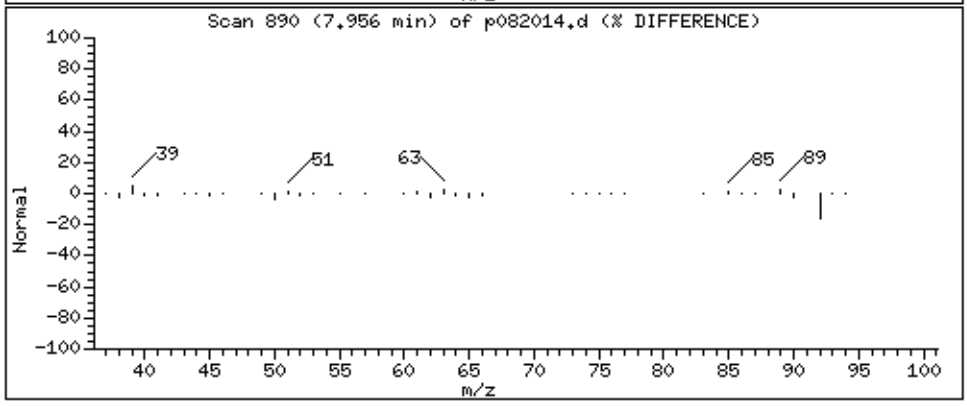












Data File: /chem/msdp.i/20AUG21.b/p082014.d

Page 6

Date : 20-AUG-2021 18:53

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1L1569

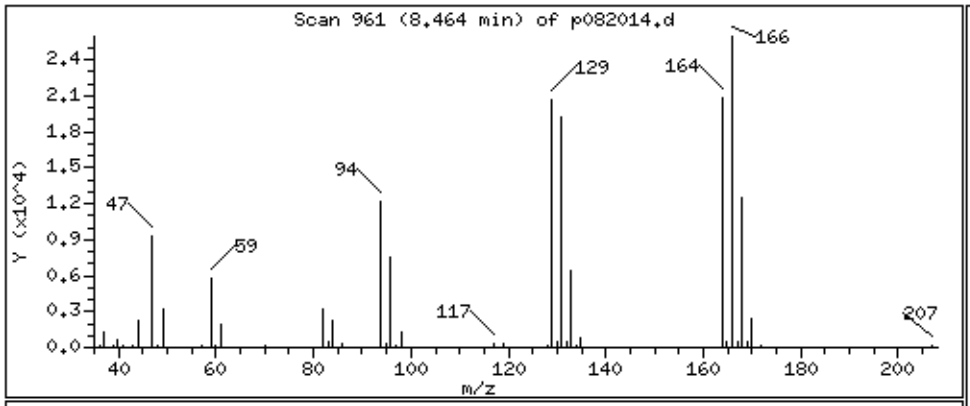
Operator: mjb

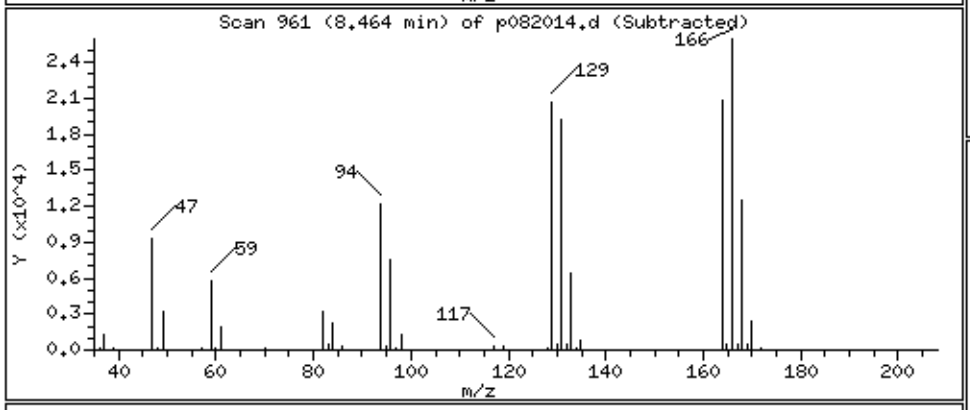
Column phase: RTX-624

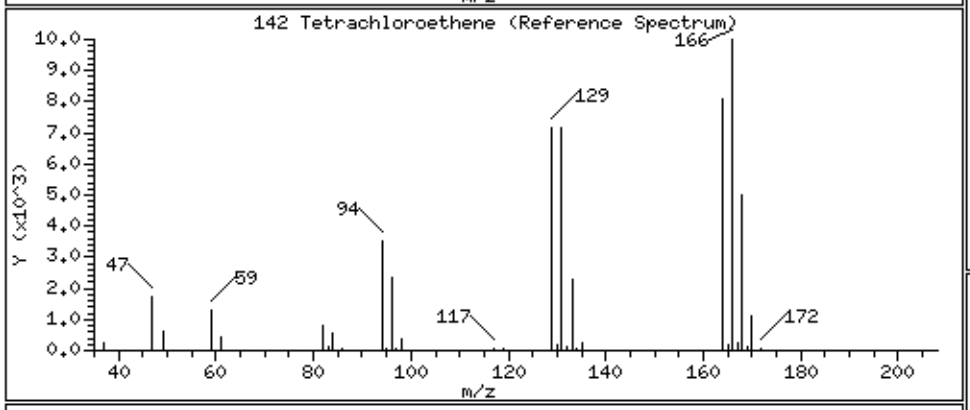
Column diameter: 0.25

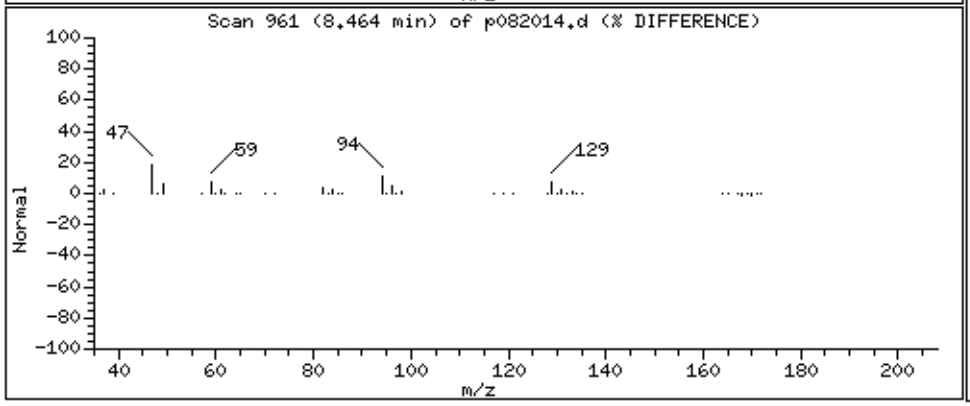
142 Tetrachloroethene

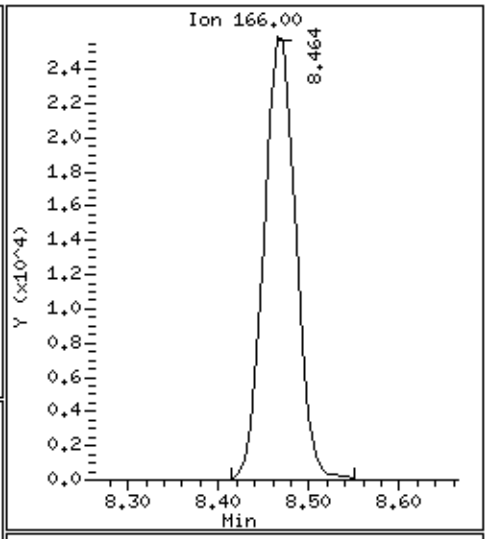
Concentration: 14.225 PPBV

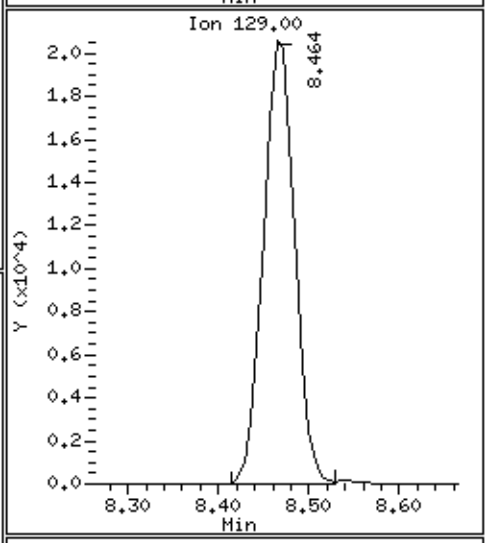


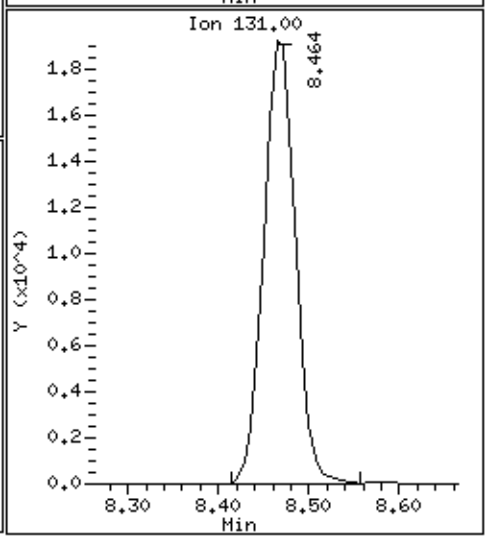












Data File: /chem/msdp.i/20AUG21.b/p082014.d

Date : 20-AUG-2021 18:53

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1L1569

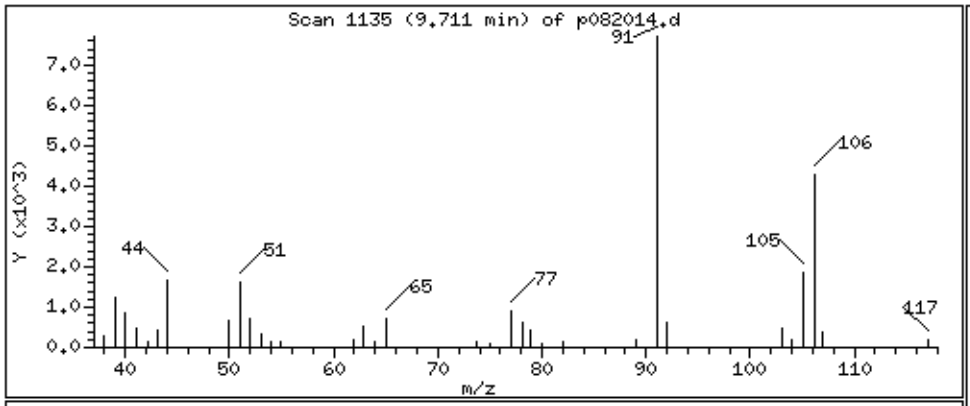
Operator: mjb

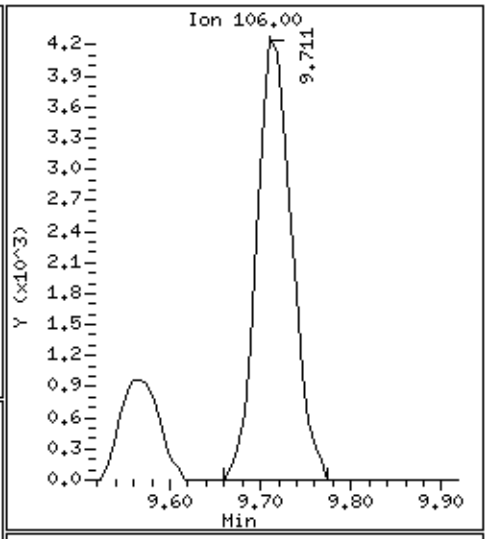
Column phase: RTX-624

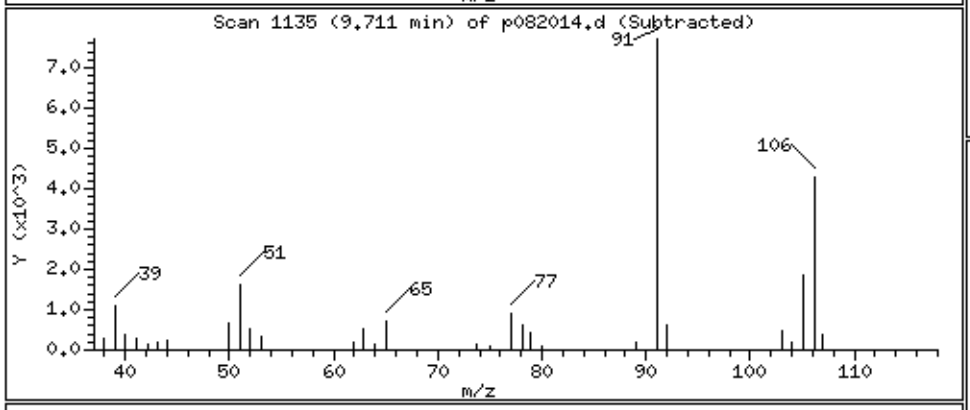
Column diameter: 0.25

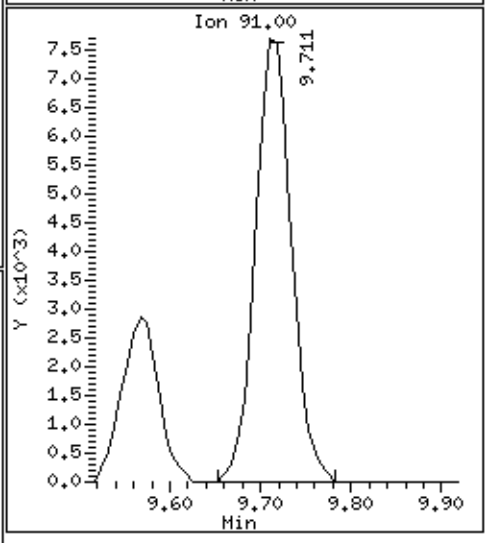
158 m,p-Xylene

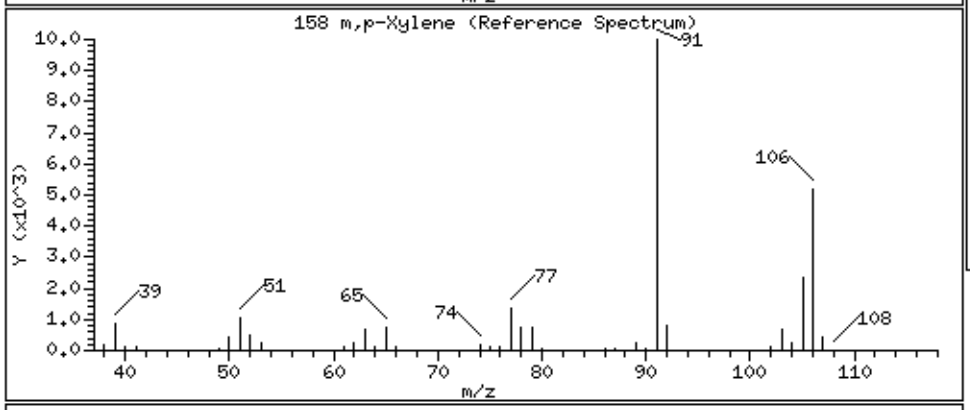
Concentration: 2.248 PPBV

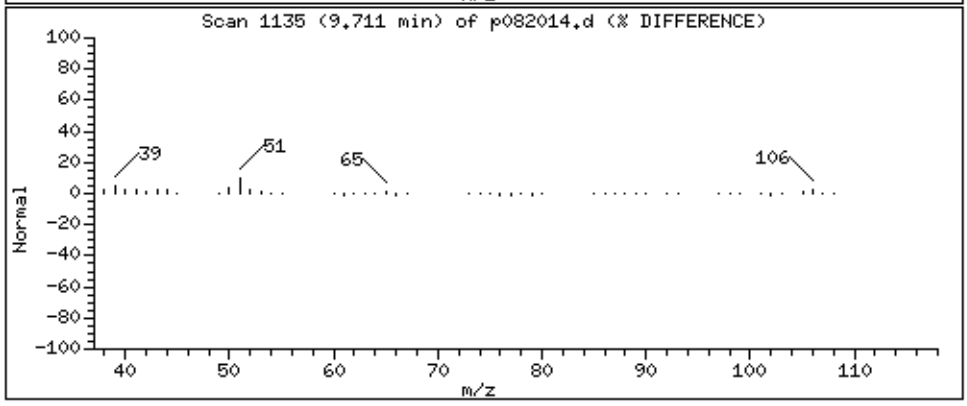












Data File: /chem/msdp.i/20AUG21.b/p082014.d

Date : 20-AUG-2021 18:53

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1L1569

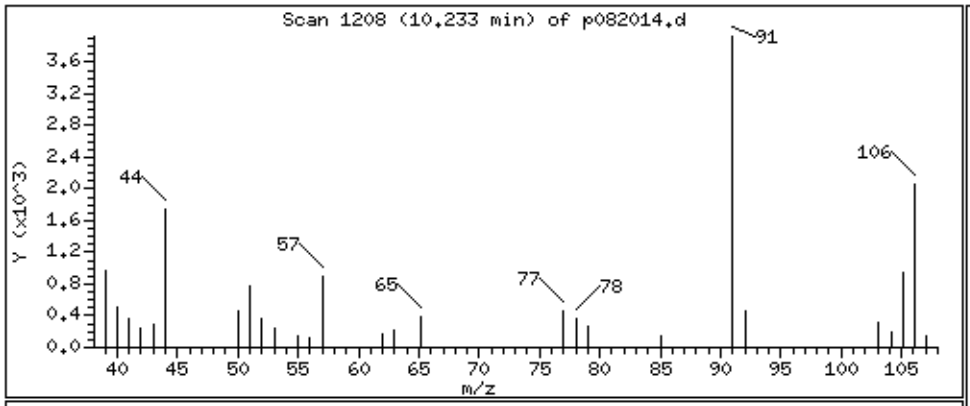
Operator: mjb

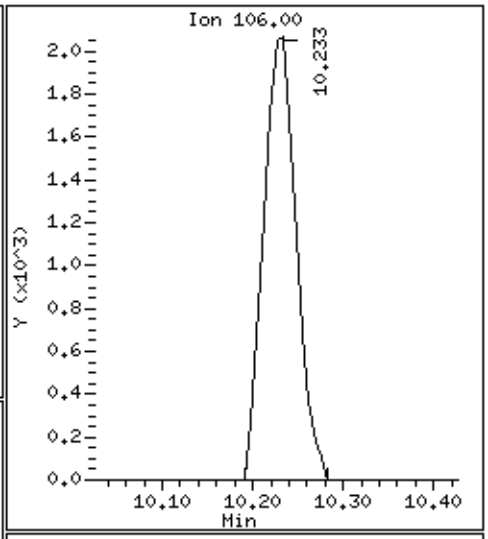
Column phase: RTX-624

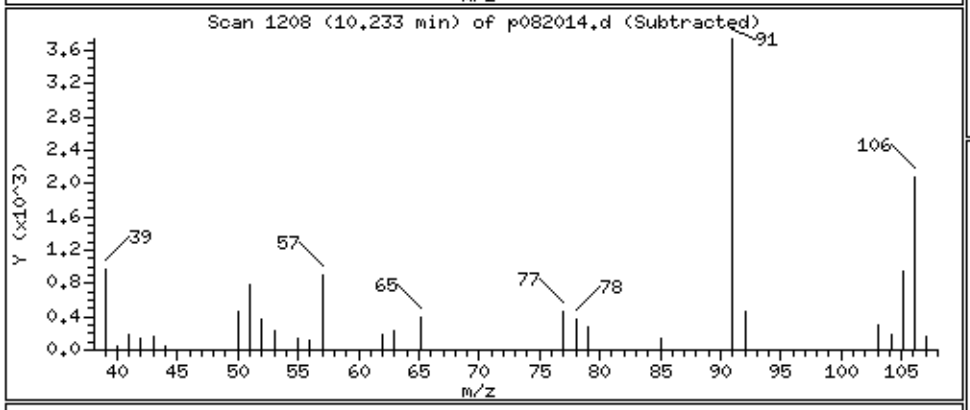
Column diameter: 0.25

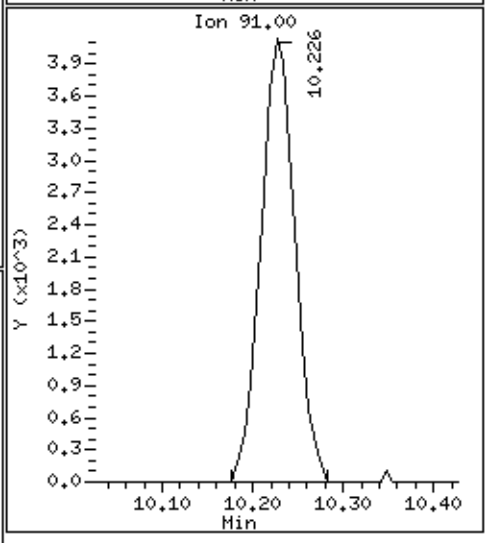
164 o-Xylene

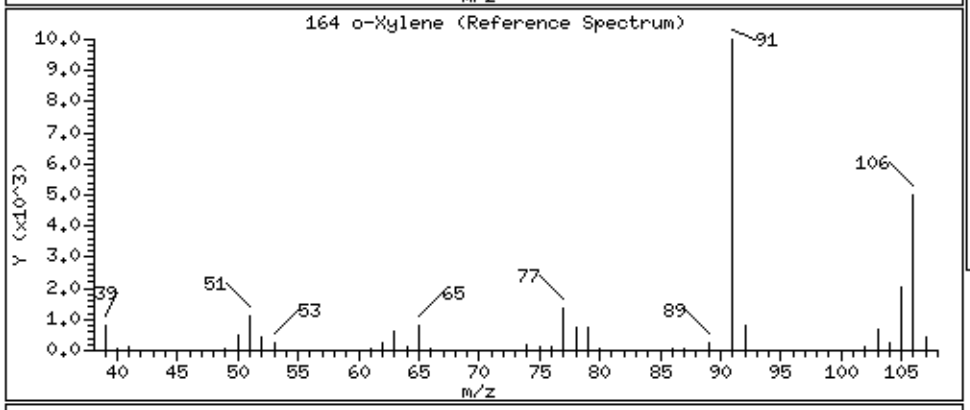
Concentration: 1.065 PPBV

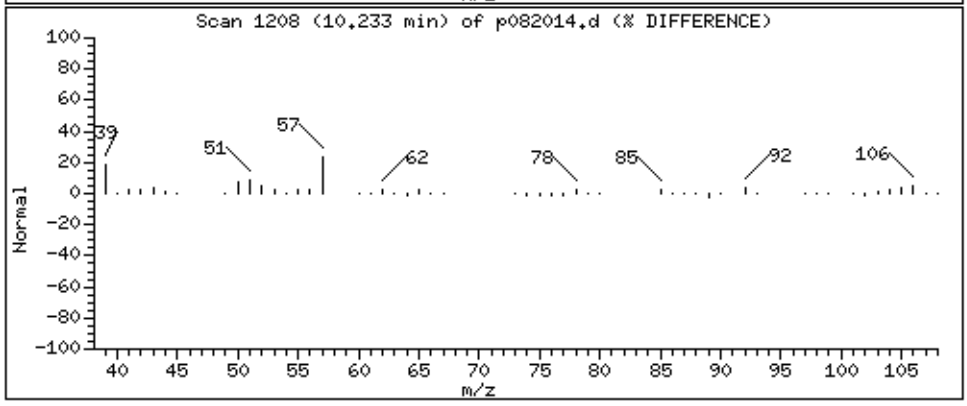












eurofins | Air Toxics

Client Sample ID: SG-VW61A-02

Lab ID#: 2108390-08A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p082026**	**Date of Collection:**	**8/16/21 1:26:00 PM**
Dil. Factor:	**2.19**	**Date of Analysis:**	**8/21/21 02:43 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1,2-Tetrachloroethane	4.4	Not Detected	30	Not Detected
1,1,1-Trichloroethane	1.1	Not Detected	6.0	Not Detected
1,1,2,2-Tetrachloroethane	1.1	Not Detected	7.5	Not Detected
1,1,2-Trichloroethane	1.1	Not Detected	6.0	Not Detected
1,1-Dichloroethane	1.1	Not Detected	4.4	Not Detected
1,1-Dichloroethene	1.1	Not Detected	4.3	Not Detected
1,1-Difluoroethane	4.4	5.2	12	14
1,2,3-Trichloropropane	4.4	Not Detected	26	Not Detected
1,2,4-Trichlorobenzene	4.4	Not Detected	32	Not Detected
1,2,4-Trimethylbenzene	1.1	Not Detected	5.4	Not Detected
1,2-Dibromo-3-chloropropane	4.4	Not Detected	42	Not Detected
1,2-Dibromoethane (EDB)	1.1	Not Detected	8.4	Not Detected
1,2-Dichlorobenzene	1.1	Not Detected	6.6	Not Detected
1,2-Dichloroethane	1.1	Not Detected	4.4	Not Detected
1,2-Dichloropropane	1.1	Not Detected	5.1	Not Detected
1,3,5-Trimethylbenzene	1.1	Not Detected	5.4	Not Detected
1,3-Butadiene	1.1	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	1.1	Not Detected	6.6	Not Detected
1,4-Dichlorobenzene	1.1	Not Detected	6.6	Not Detected
1,4-Dioxane	4.4	Not Detected	16	Not Detected
2,2,4-Trimethylpentane	1.1	Not Detected	5.1	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.4	Not Detected	13	Not Detected
2-Hexanone	4.4	Not Detected	18	Not Detected
2-Propanol	4.4	Not Detected	11	Not Detected
3-Chloropropene	4.4	Not Detected	14	Not Detected
4-Ethyltoluene	1.1	Not Detected	5.4	Not Detected
4-Methyl-2-pentanone	1.1	Not Detected	4.5	Not Detected
Acetone	11	17	26	40
Acrolein	4.4	Not Detected	10	Not Detected
Acrylonitrile	4.4	Not Detected	9.5	Not Detected
alpha-Chlorotoluene	1.1	Not Detected	5.7	Not Detected
Benzene	1.1	Not Detected	3.5	Not Detected
Bromodichloromethane	1.1	2.2	7.3	15
Bromoform	1.1	Not Detected	11	Not Detected
Bromomethane	11	Not Detected	42	Not Detected
Carbon Disulfide	4.4	Not Detected	14	Not Detected
Carbon Tetrachloride	1.1	Not Detected	6.9	Not Detected
Chlorobenzene	1.1	Not Detected	5.0	Not Detected
Chloroethane	4.4	Not Detected	12	Not Detected
Chloroform	1.1	49	5.3	240
Chloromethane	11	Not Detected	23	Not Detected
cis-1,2-Dichloroethene	1.1	Not Detected	4.3	Not Detected

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Client Sample ID: SG-VW61A-02

Lab ID#: 2108390-08A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p082026**	**Date of Collection:**	**8/16/21 1:26:00 PM**
Dil. Factor:	**2.19**	**Date of Analysis:**	**8/21/21 02:43 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,3-Dichloropropene	1.1	Not Detected	5.0	Not Detected
Cumene	1.1	Not Detected	5.4	Not Detected
Cyclohexane	1.1	Not Detected	3.8	Not Detected
Dibromochloromethane	1.1	Not Detected	9.3	Not Detected
Dibromomethane	4.4	Not Detected	31	Not Detected
Ethanol	11	Not Detected	21	Not Detected
Ethyl Acetate	4.4	Not Detected	16	Not Detected
Ethyl Benzene	1.1	1.8	4.8	7.7
Ethyl-tert-butyl ether	4.4	Not Detected	18	Not Detected
Freon 11	1.1	Not Detected	6.2	Not Detected
Freon 12	1.1	1.3	5.4	6.3
Freon 113	1.1	Not Detected	8.4	Not Detected
Freon 114	1.1	Not Detected	7.6	Not Detected
Freon 134a	4.4	Not Detected	18	Not Detected
Heptane	1.1	Not Detected	4.5	Not Detected
Hexachlorobutadiene	4.4	Not Detected	47	Not Detected
Hexachloroethane	4.4	Not Detected	42	Not Detected
Hexane	1.1	86	3.8	300
Iodomethane	11	Not Detected	64	Not Detected
Isopropyl ether	4.4	Not Detected	18	Not Detected
m,p-Xylene	1.1	4.5	4.8	19
Methyl tert-butyl ether	4.4	Not Detected	16	Not Detected
Methylene Chloride	11	Not Detected	38	Not Detected
Naphthalene	2.2	Not Detected	11	Not Detected
o-Xylene	1.1	2.2	4.8	9.4
Propylbenzene	1.1	Not Detected	5.4	Not Detected
Propylene	4.4	Not Detected	7.5	Not Detected
Styrene	1.1	Not Detected	4.7	Not Detected
tert-Amyl methyl ether	4.4	Not Detected	18	Not Detected
tert-Butyl alcohol	4.4	Not Detected	13	Not Detected
Tetrachloroethene	1.1	17	7.4	120
Tetrahydrofuran	1.1	Not Detected	3.2	Not Detected
Toluene	1.1	2.9	4.1	11
TPH ref. to Gasoline (MW=100)	110	210	450	860
trans-1,2-Dichloroethene	1.1	Not Detected	4.3	Not Detected
trans-1,3-Dichloropropene	1.1	Not Detected	5.0	Not Detected
Trichloroethene	1.1	Not Detected	5.9	Not Detected
Vinyl Acetate	4.4	Not Detected	15	Not Detected
Vinyl Bromide	4.4	Not Detected	19	Not Detected
Vinyl Chloride	1.1	Not Detected	2.8	Not Detected

Container Type: 1 Liter Summa Canister

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Client Sample ID: SG-VW61A-02

Lab ID#: 2108390-08A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p082026**	**Date of Collection:**	**8/16/21 1:26:00 PM**
Dil. Factor:	**2.19**	**Date of Analysis:**	**8/21/21 02:43 AM**

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	106	70-130
4-Bromofluorobenzene	104	70-130

US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/20AUG21.b/p082026.d
Lab Smp Id: 2108390-08A
Inj Date : 21-AUG-2021 02:43
Operator : kk Inst ID: msdp.i
Smp Info : 200ml O0818
Misc Info : 7.0 Hg->10 psi
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/20AUG21.b/p21q0519a.m
Meth Date : 20-Aug-2021 12:59 p5fl Quant Type: ISTD
Cal Date : 19-MAY-2021 19:45 Cal File: p051915.d
Als bottle: 8
Dil Factor: 2.19000
Integrator: HP RTE Compound Sublist: AEC25677.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE		(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 90 Bromochloromethane						CAS #: 74-97-5		
5.785	5.785 (1.000)	130	106226	25.0000			80.00- 120.00	100.00
5.785	5.785 (1.000)	128	81714				48.23- 108.23	76.93
5.785	5.778 (1.000)	49	269857				150.57- 210.57	254.04
* 108 1,4-Difluorobenzene						CAS #: 540-36-3		
6.666	6.659 (1.000)	114	378182	25.0000			80.00- 120.00	100.00
6.666	6.659 (1.000)	88	54759				0.00- 45.71	14.48
* 153 Chlorobenzene-d5						CAS #: 3114-55-4		
9.460	9.460 (1.000)	117	387252	25.0000			80.00- 120.00	100.00
9.460	9.460 (1.000)	82	201078				23.78- 83.78	51.92
$ 104 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
6.315	6.315 (1.092)	65	154995	26.4392	26.439		80.00- 120.00	100.00
6.315	6.315 (1.092)	67	77339				27.21- 87.21	49.90
$ 134 Toluene-d8						CAS #: 2037-26-5		
7.891	7.891 (1.184)	98	411838	25.0782	25.078		80.00- 120.00	100.00
7.891	7.891 (1.184)	70	42867				0.00- 40.44	10.41

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 134 Toluene-d8 (continued)							
7.891	7.891 (1.184)	100	262971			34.95- 94.95	63.85
$ 170 4-Bromofluorobenzene					CAS #: 460-00-4		
10.921	10.921 (1.154)	174	259931	26.1390	26.139	80.00- 120.00	100.00
10.921	10.914 (1.154)	95	306287			95.92- 155.92	117.83
10.921	10.921 (1.154)	176	251762			66.89- 126.89	96.86
7 1,1-Difluoroethane					CAS #: 75-37-6		
1.717	1.703 (0.297)	65	5694	2.36480	5.179	80.00- 120.00	100.00
1.758	1.759 (0.304)	51	43561			597.63- 657.63	765.00
1.717	1.717 (0.297)	47	4519			33.72- 93.72	79.36
8 Freon 12					CAS #: 75-71-8		
1.731	1.717 (0.299)	85	5581	0.58579	1.283	80.00- 120.00	100.00
1.731	1.717 (0.299)	87	1627			2.37- 62.37	29.17
47 Acetone					CAS #: 67-64-1		
3.729	3.722 (0.645)	58	21367	7.67264	16.803	80.00- 120.00	100.00
3.729	3.722 (0.645)	43	83231			302.95- 362.95	389.53
67 Hexane					CAS #: 110-54-3		
4.697	4.697 (0.812)	57	410613	39.2387	85.933	80.00- 120.00	100.00
4.697	4.697 (0.812)	43	324220			37.52- 97.52	78.96
4.697	4.697 (0.812)	86	41643			0.00- 41.48	10.14
92 Chloroform					CAS #: 67-66-3		
5.843	5.843 (1.010)	83	208271	22.5341	49.350	80.00- 120.00	100.00
5.843	5.843 (1.010)	85	136909			34.70- 94.70	65.74
122 Bromodichloromethane					CAS #: 75-27-4		
7.318	7.318 (1.098)	83	9417	1.00293	2.196	80.00- 120.00	100.00
7.318	7.318 (1.098)	85	5922			35.24- 95.24	62.88
137 Toluene					CAS #: 108-88-3		
7.956	7.956 (1.193)	91	23009	1.33633	2.926	80.00- 120.00	100.00
7.956	7.956 (1.193)	92	13254			28.38- 88.38	57.61
142 Tetrachloroethene					CAS #: 127-18-4		
8.471	8.464 (0.895)	166	68529	7.76463	17.004	80.00- 120.00	100.00
8.471	8.464 (0.895)	129	52157			47.84- 107.84	76.11
8.464	8.464 (0.895)	131	50757			45.29- 105.29	74.07
155 Ethyl Benzene					CAS #: 100-41-4		
9.567	9.567 (1.011)	106	6544	0.81386	1.782	80.00- 120.00	100.00
9.567	9.567 (1.011)	91	19587			273.74- 333.74	299.32

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
158 m,p-Xylene					CAS #: 108-38-3		
9.718	9.718 (1.027)	106	20585	2.04408	4.476	80.00- 120.00	100.00
9.718	9.718 (1.027)	91	41598			163.73- 223.73	202.08
164 o-Xylene					CAS #: 95-47-6		
10.234	10.226 (1.082)	106	9492	0.98376	2.154	80.00- 120.00	100.00
10.226	10.226 (1.081)	91	19592			177.45- 237.45	206.41

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p082026.d
Lab Smp Id: 2108390-08A
Analysis Type: VOA
Quant Type: ISTD
Operator: kk
Method File: /chem/msdp.i/20AUG21.b/p21q0519a.m
Misc Info: 7.0 Hg->10 psi

Calibration Date: 20-AUG-2021
Calibration Time: 11:13
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	109375	65625	153125	106226	-2.88
108 1,4-Difluorobenze	406799	244079	569519	378182	-7.03
153 Chlorobenzene-d5	400841	240505	561177	387252	-3.39

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.79	5.46	6.12	5.79	-0.00
108 1,4-Difluorobenze	6.66	6.33	6.99	6.67	0.11
153 Chlorobenzene-d5	9.46	9.13	9.79	9.46	-0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 24-Aug-2021 11:07

US32TAR1

RECOVERY REPORT

Client Name: Client SDG: 20AUG21
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 2108390-08A
Level: LOW Operator: kk
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT20_new.spk Quant Type: ISTD
Sublist File: AEC25677.sub
Method File: /chem/msdp.i/20AUG21.b/p21q0519a.m
Misc Info: 7.0 Hg->10 psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 104 1,2-Dichloroethan	25.000	26.439	105.76	70-130
$ 134 Toluene-d8	25.000	25.078	100.31	70-130
$ 170 4-Bromofluorobenz	25.000	26.139	104.56	70-130

Data File: /chem/msdp.i/20AUG21.b/p082026.d

Date : 21-AUG-2021 02:43

Client ID:

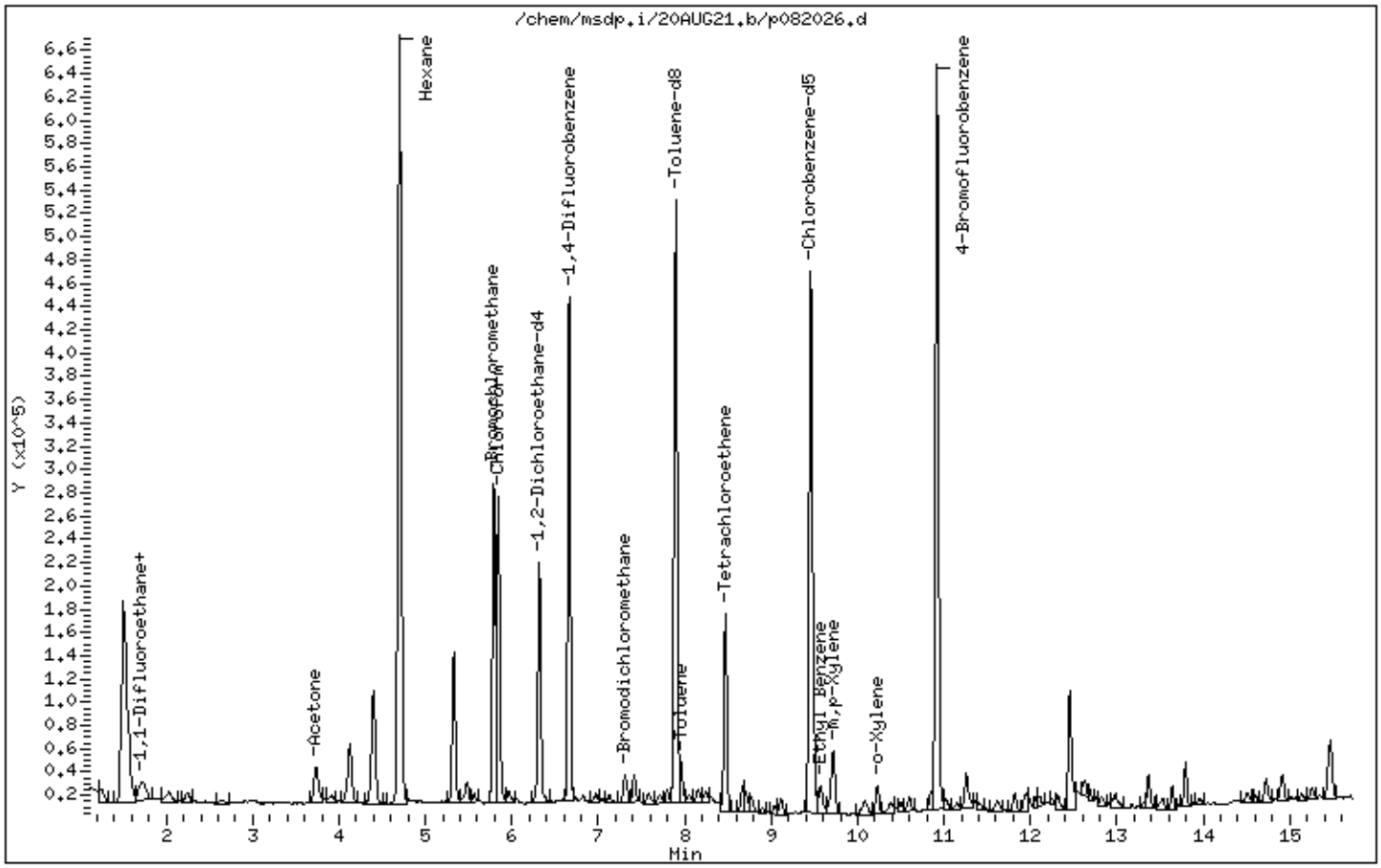
Instrument: msdp.i

Sample Info: 200ml 00818

Operator: kk

Column phase: RTX-624

Column diameter: 0.25



Data File: /chem/msdp.i/20AUG21.b/p082026.d

Date : 21-AUG-2021 02:43

Client ID:

Instrument: msdp.i

Sample Info: 200ml 00818

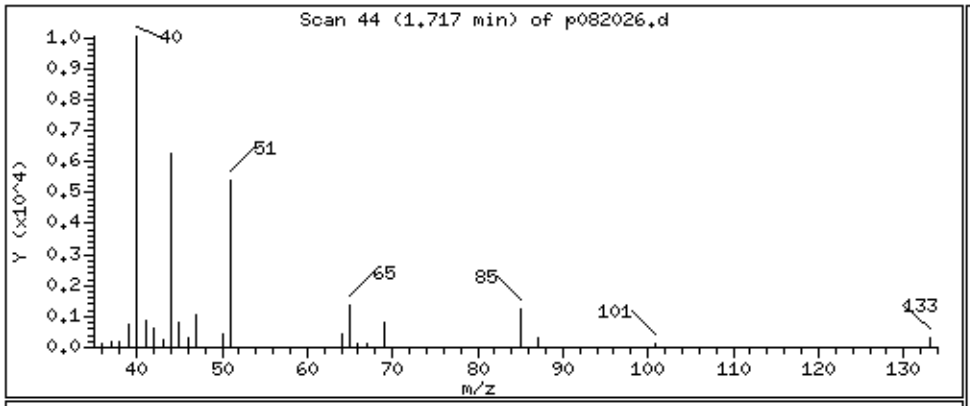
Operator: kk

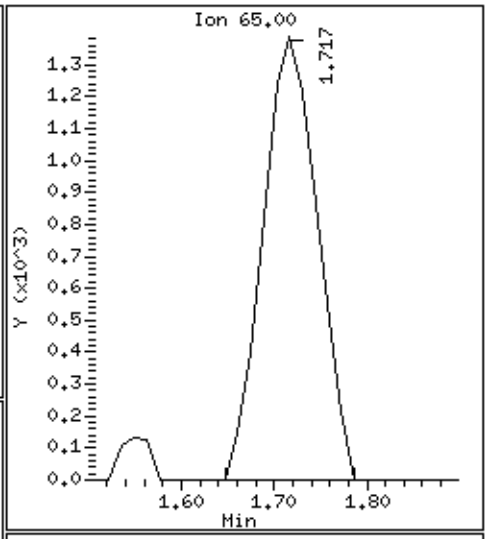
Column phase: RTX-624

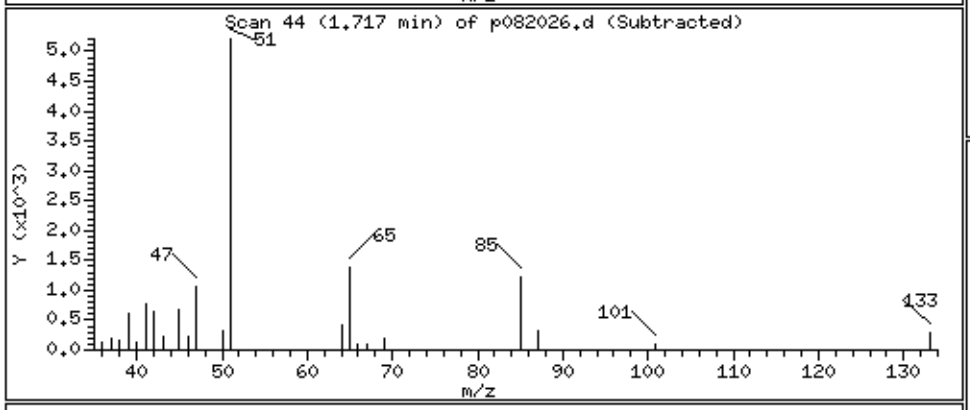
Column diameter: 0.25

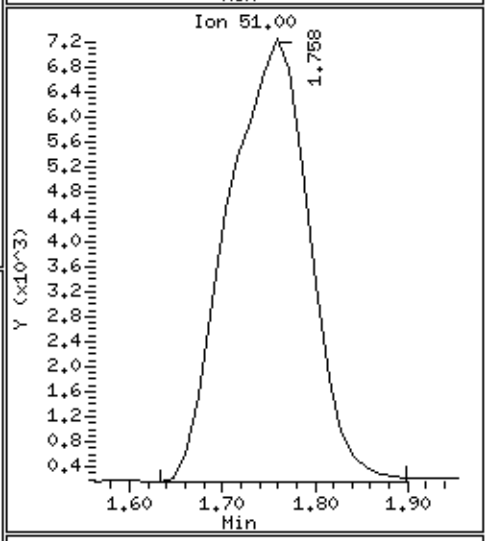
7 1,1-Difluoroethane

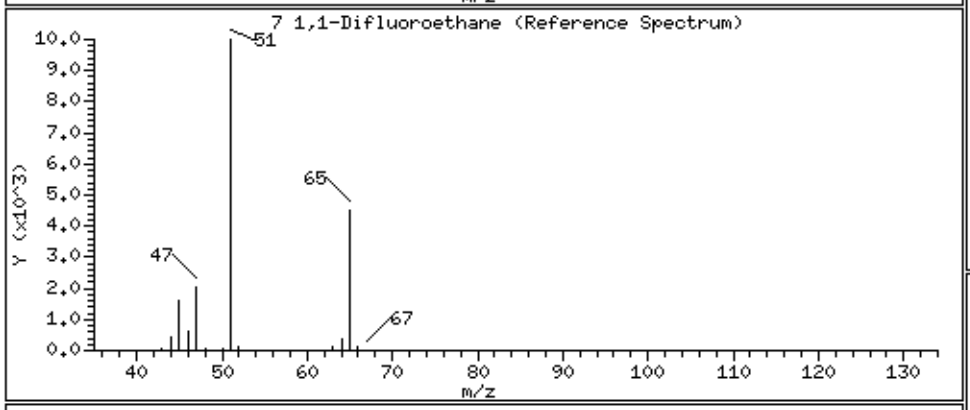
Concentration: 5.179 PPBV

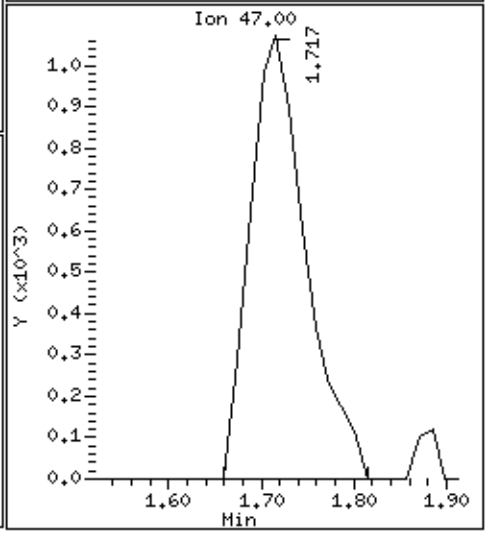


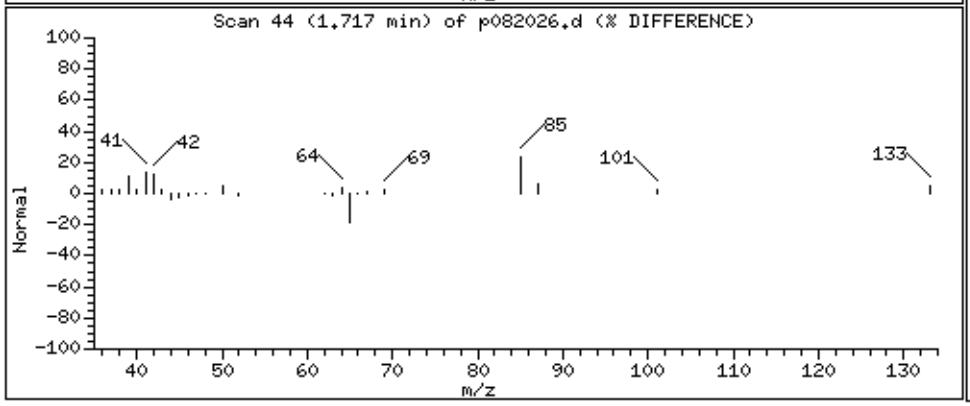












Data File: /chem/msdp.i/20AUG21.b/p082026.d

Date : 21-AUG-2021 02:43

Client ID:

Instrument: msdp.i

Sample Info: 200ml 00818

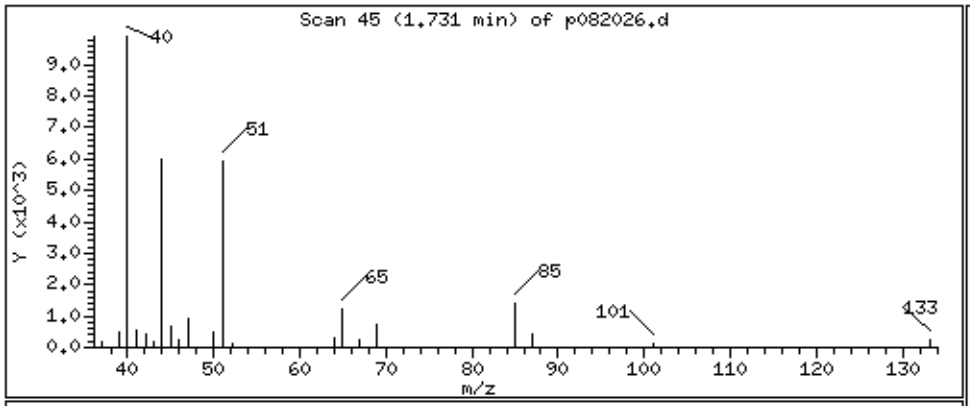
Operator: kk

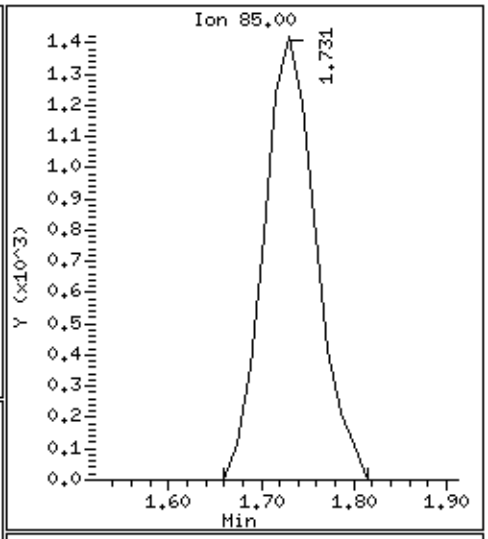
Column phase: RTX-624

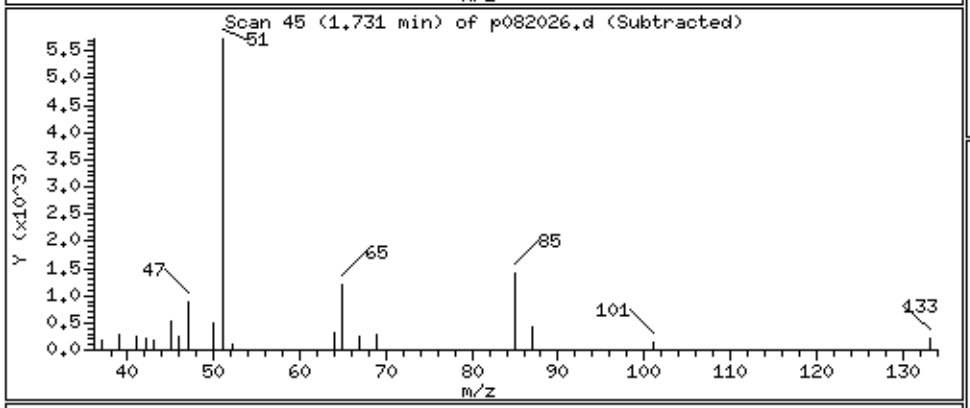
Column diameter: 0.25

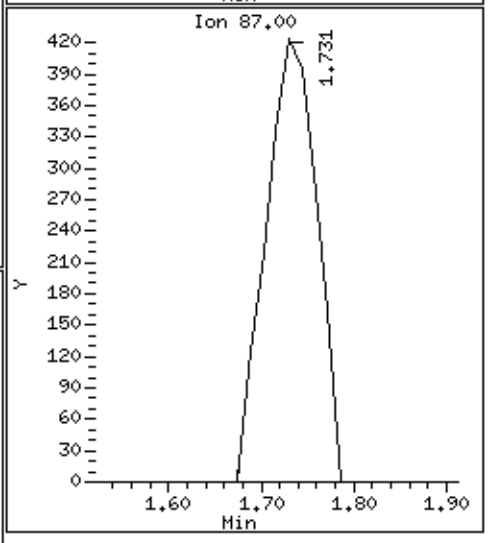
8 Freon 12

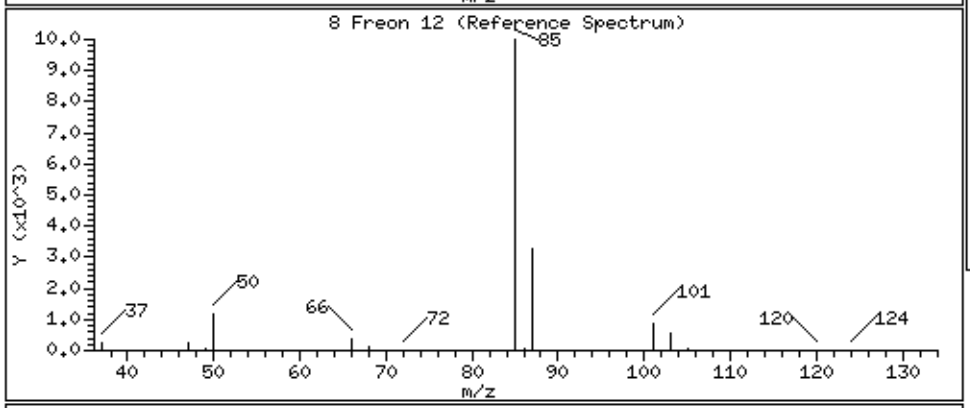
Concentration: 1.283 PPBV

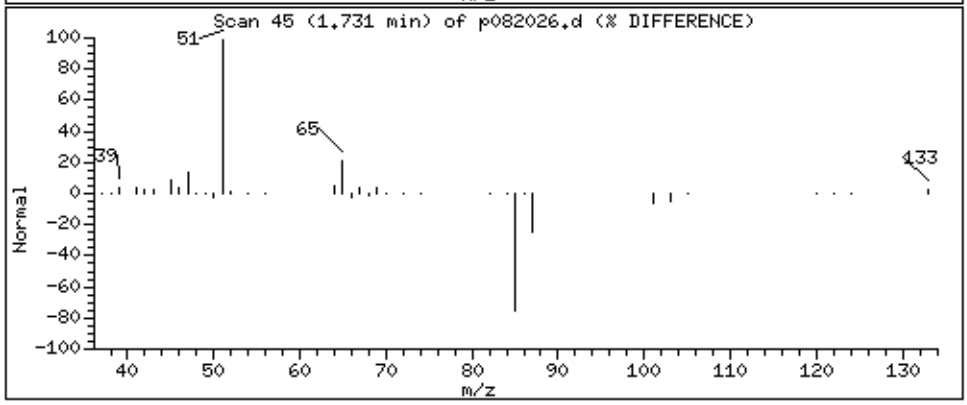












Data File: /chem/msdp.i/20AUG21.b/p082026.d

Date : 21-AUG-2021 02:43

Client ID:

Instrument: msdp.i

Sample Info: 200ml 00818

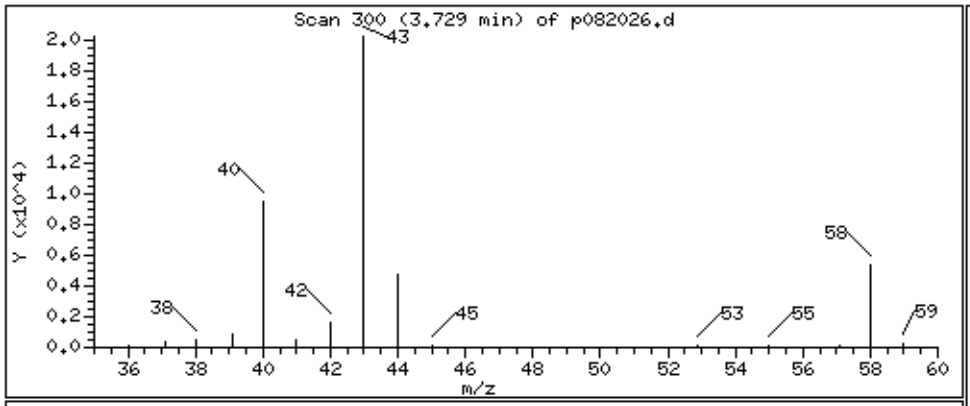
Operator: kk

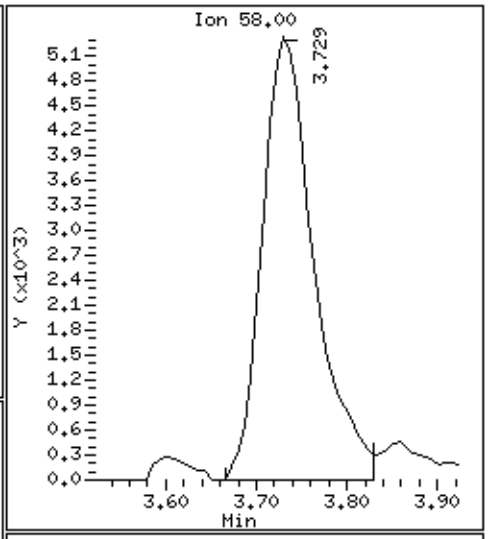
Column phase: RTX-624

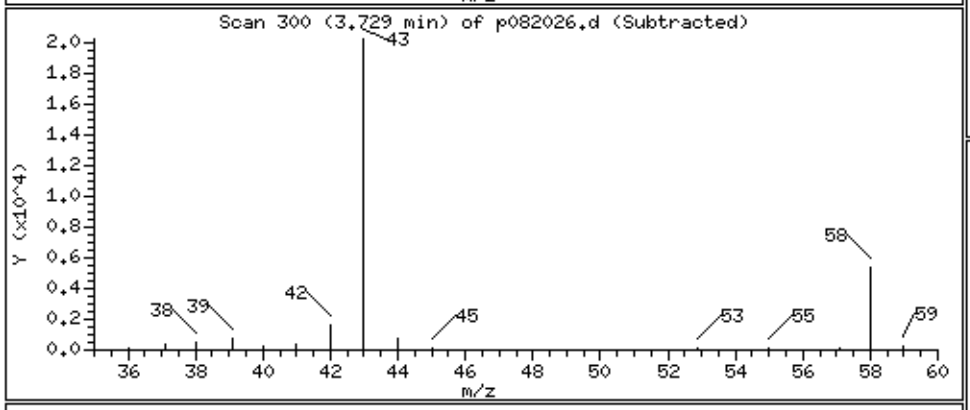
Column diameter: 0.25

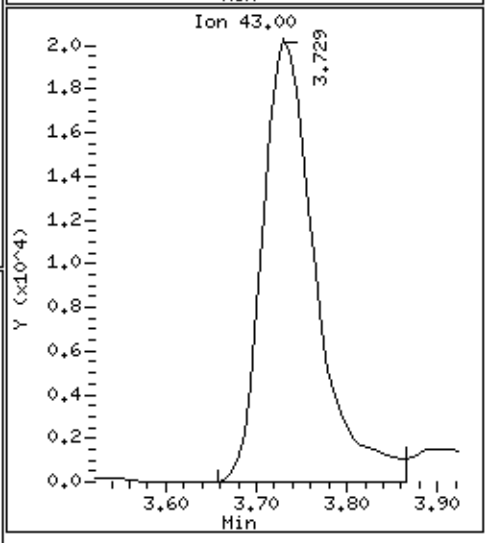
47 Acetone

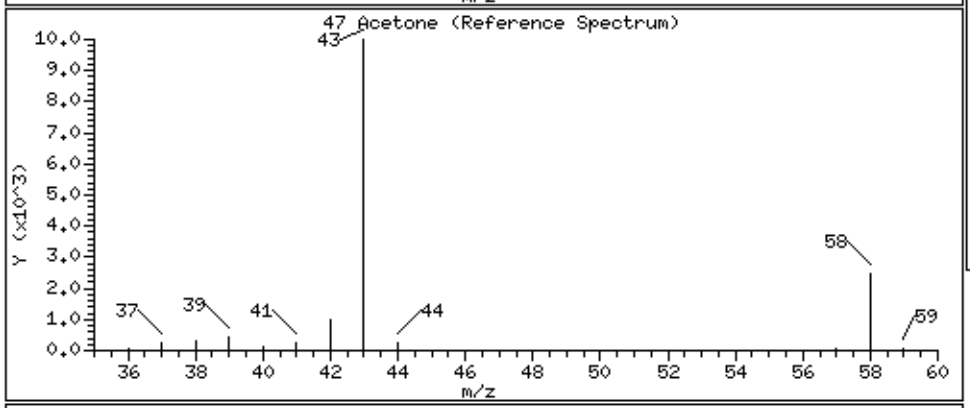
Concentration: 16.803 PPBV

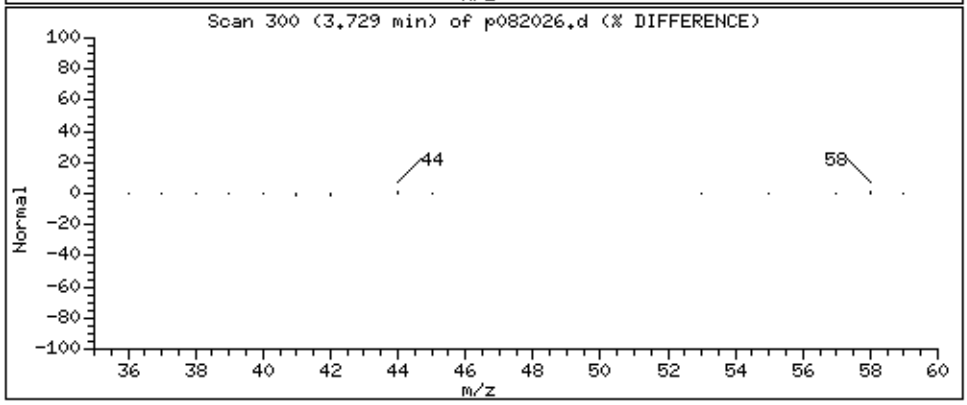












Data File: /chem/msdp.i/20AUG21.b/p082026.d

Date : 21-AUG-2021 02:43

Client ID:

Instrument: msdp.i

Sample Info: 200ml 00818

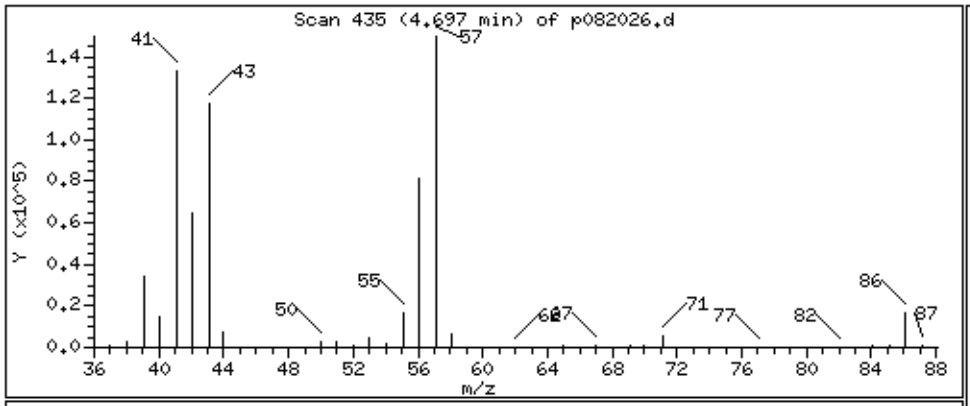
Operator: kk

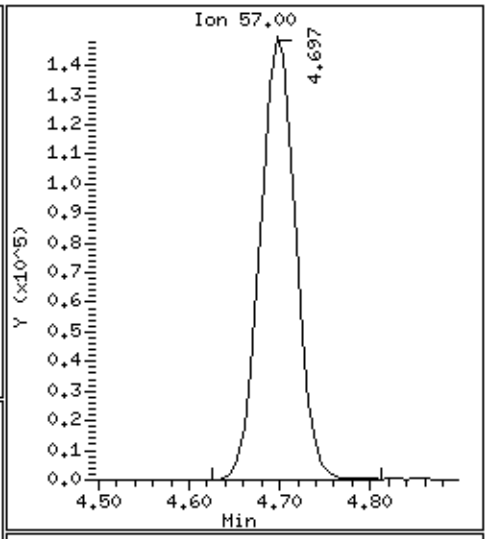
Column phase: RTX-624

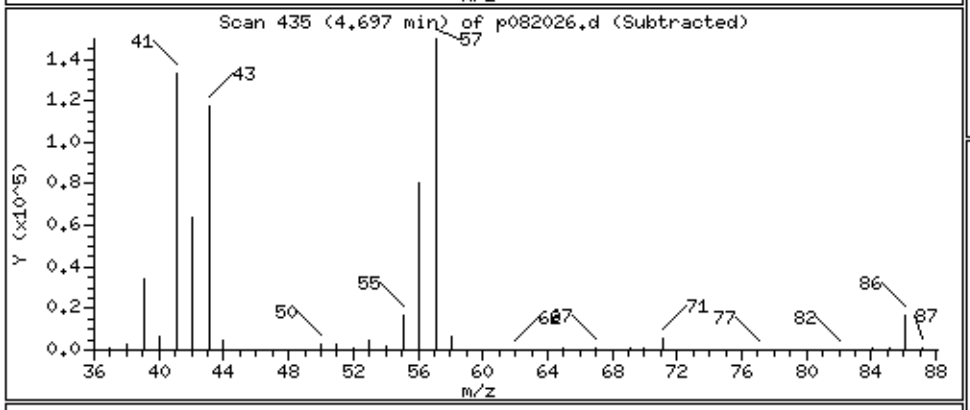
Column diameter: 0.25

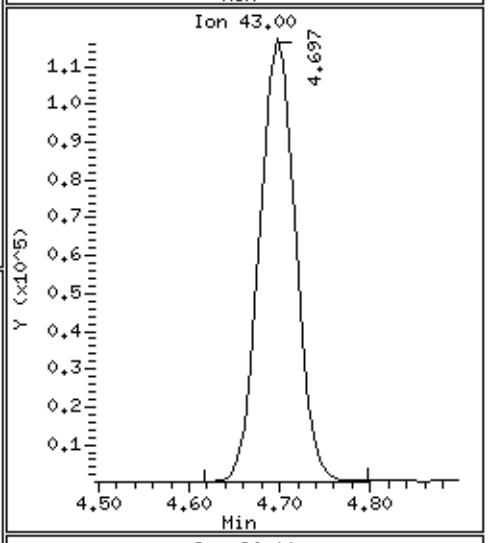
67 Hexane

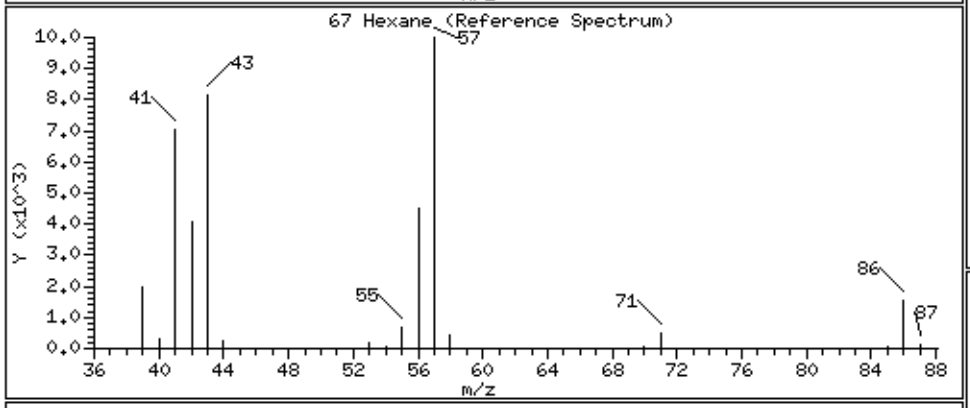
Concentration: 85.933 PPBV

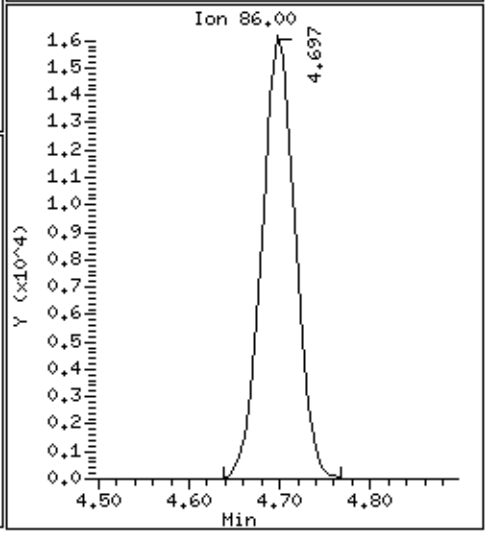


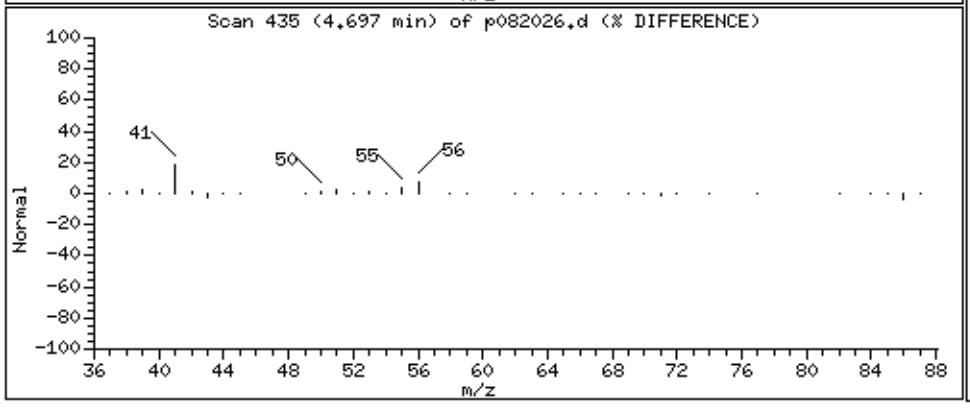












Data File: /chem/msdp.i/20AUG21.b/p082026.d

Date : 21-AUG-2021 02:43

Client ID:

Instrument: msdp.i

Sample Info: 200ml 00818

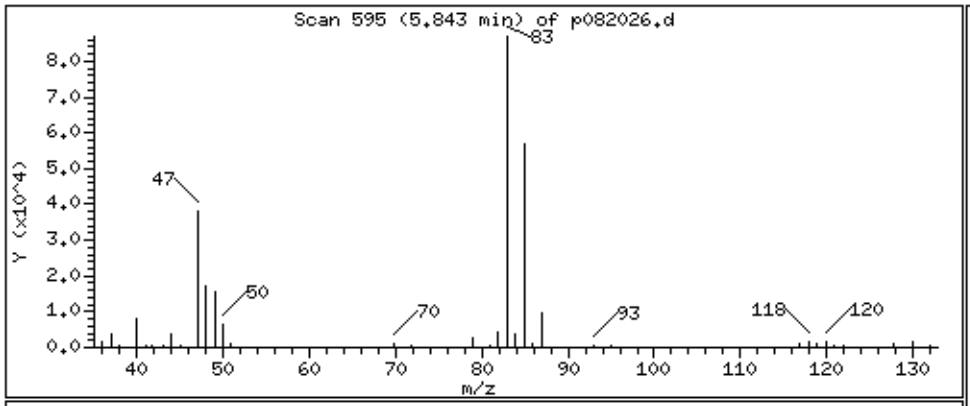
Operator: kk

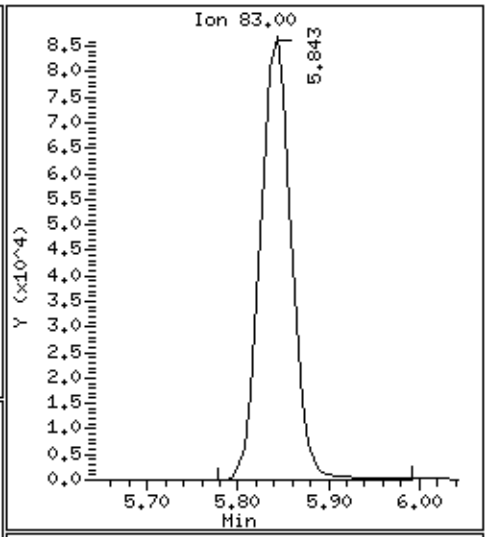
Column phase: RTX-624

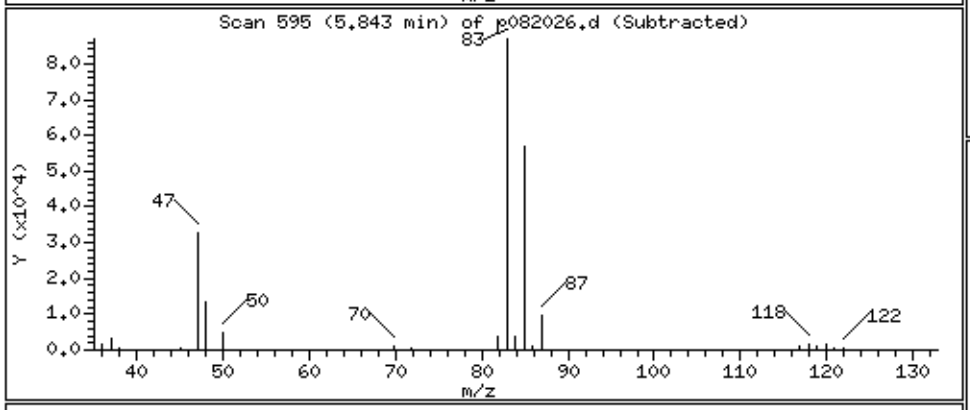
Column diameter: 0.25

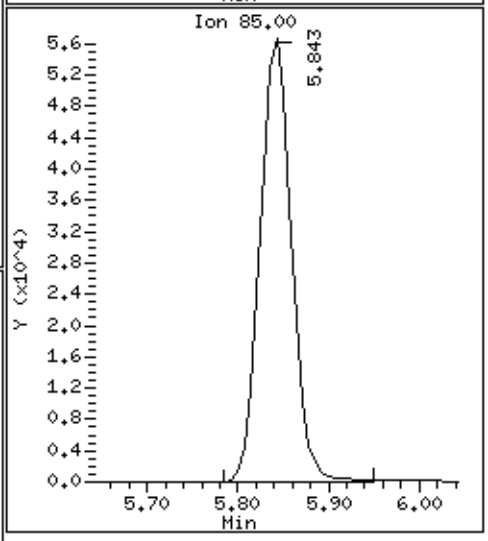
92 Chloroform

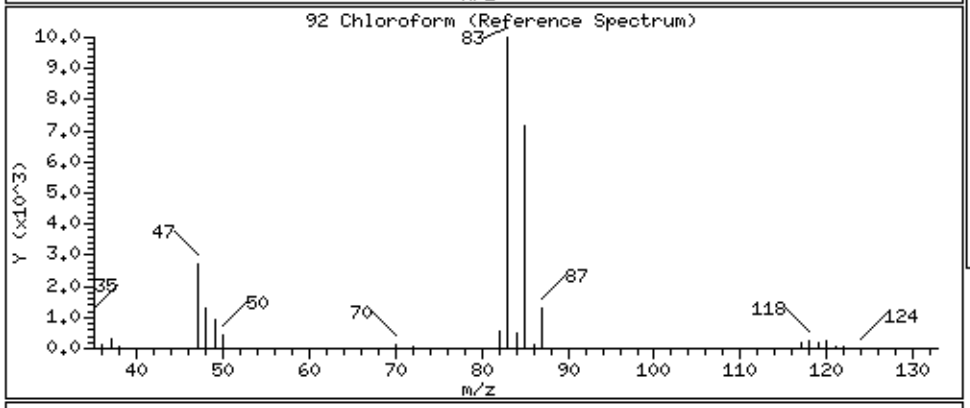
Concentration: 49.350 PPBV

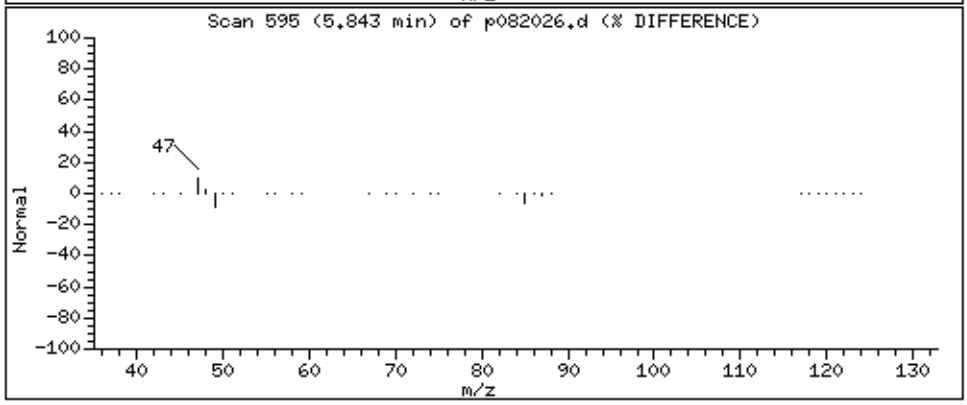












Data File: /chem/msdp.i/20AUG21.b/p082026.d

Date : 21-AUG-2021 02:43

Client ID:

Instrument: msdp.i

Sample Info: 200ml 00818

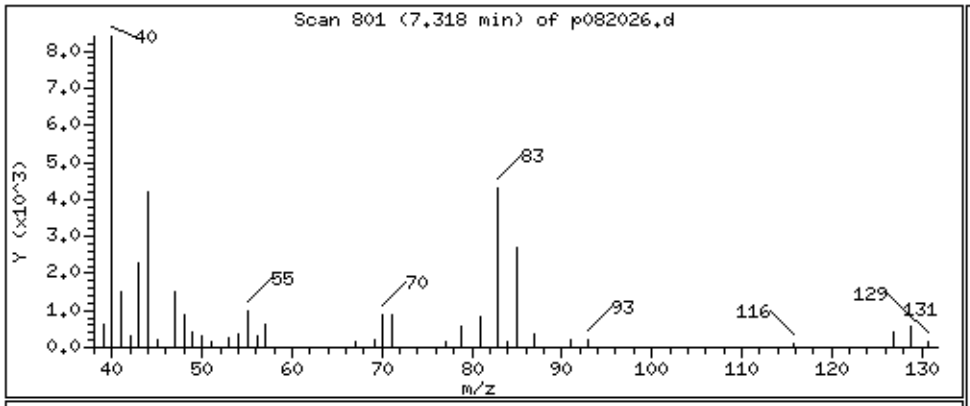
Operator: kk

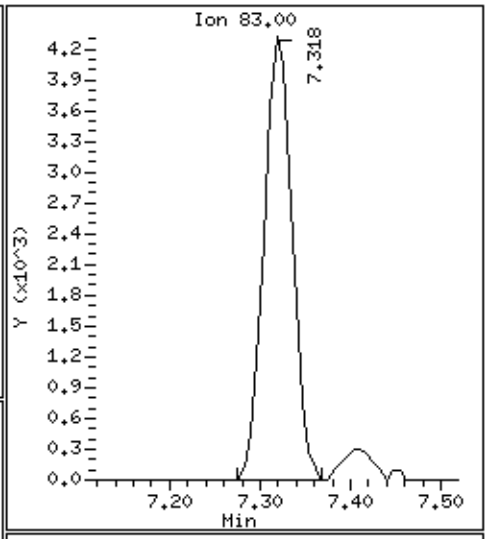
Column phase: RTX-624

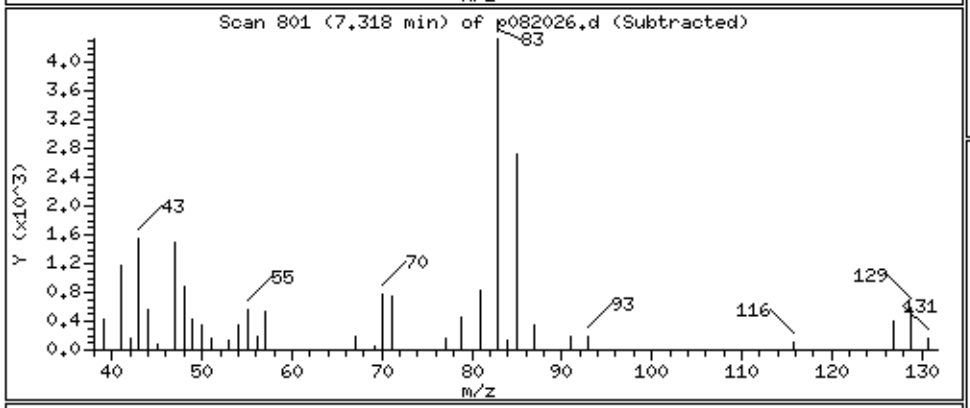
Column diameter: 0.25

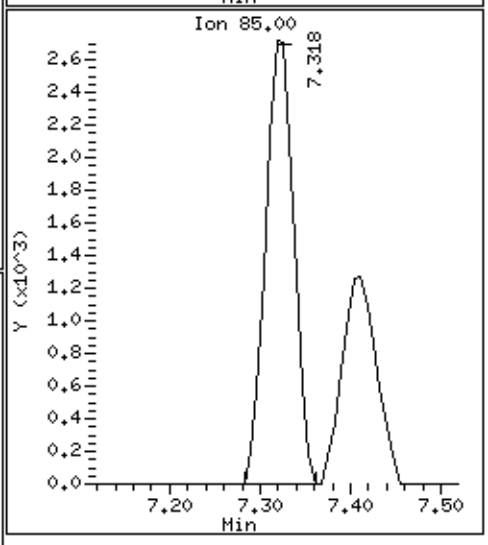
122 Bromodichloromethane

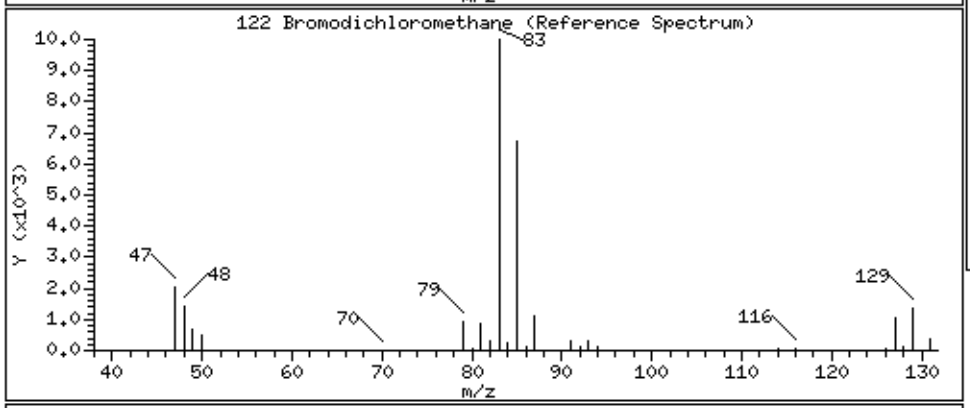
Concentration: 2.196 PPBV

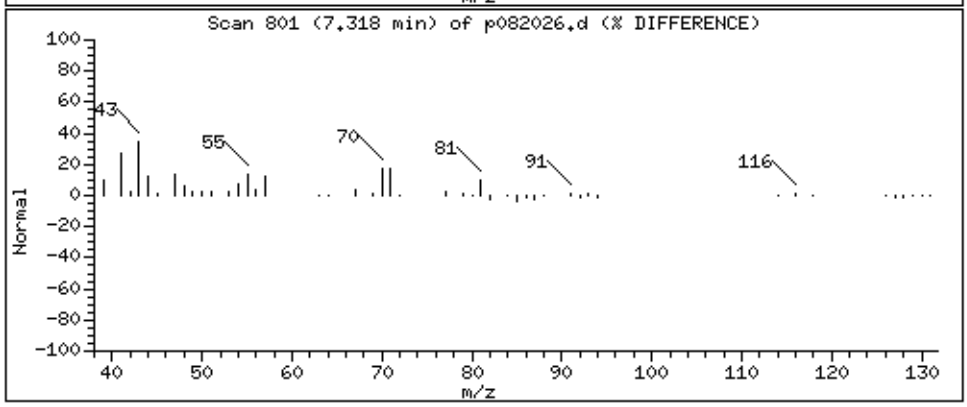












Data File: /chem/msdp.i/20AUG21.b/p082026.d

Date : 21-AUG-2021 02:43

Client ID:

Instrument: msdp.i

Sample Info: 200ml 00818

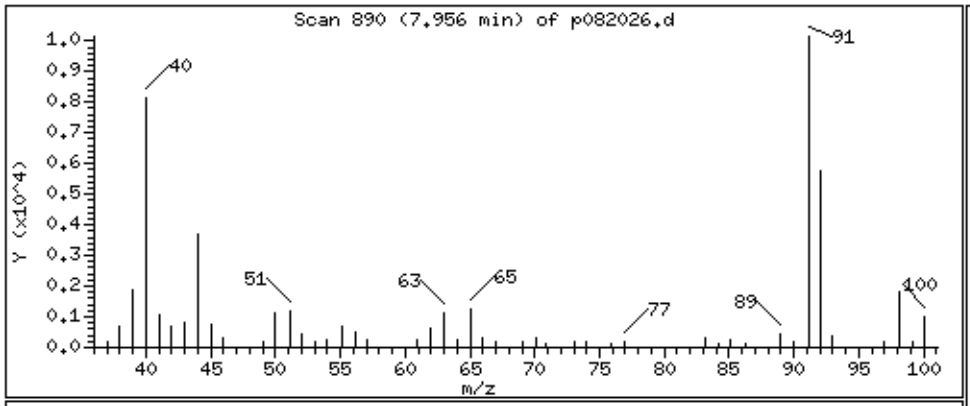
Operator: kk

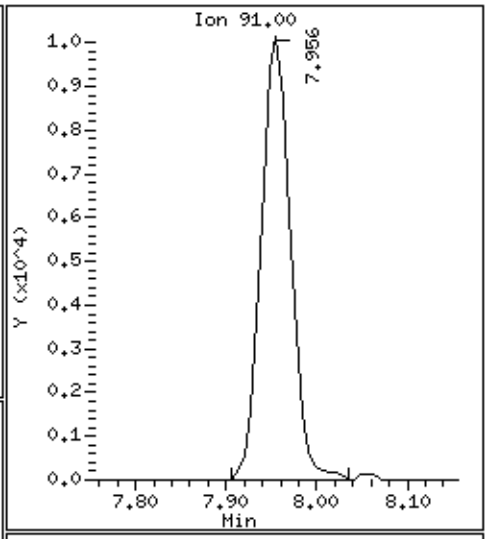
Column phase: RTX-624

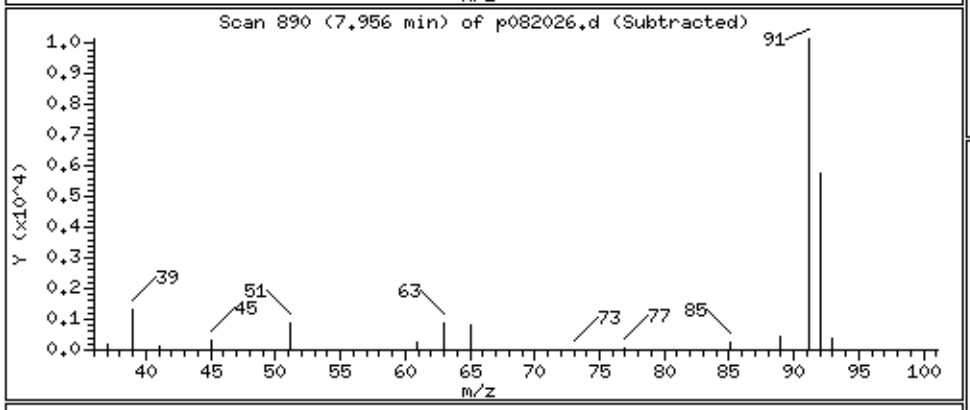
Column diameter: 0.25

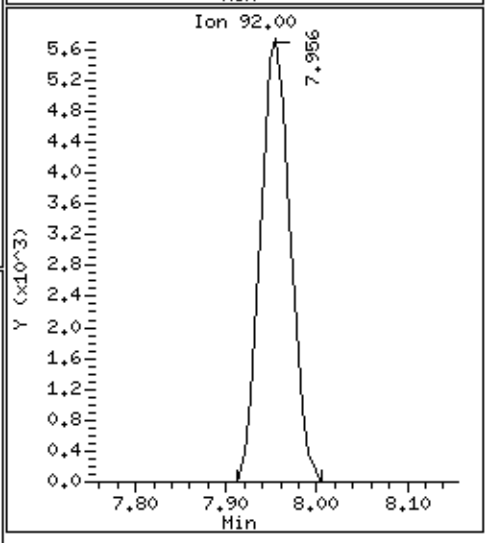
137 Toluene

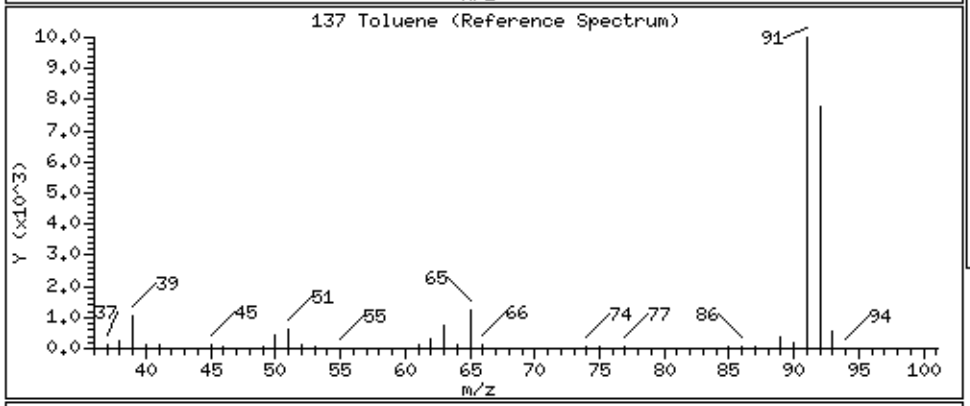
Concentration: 2.926 PPBV

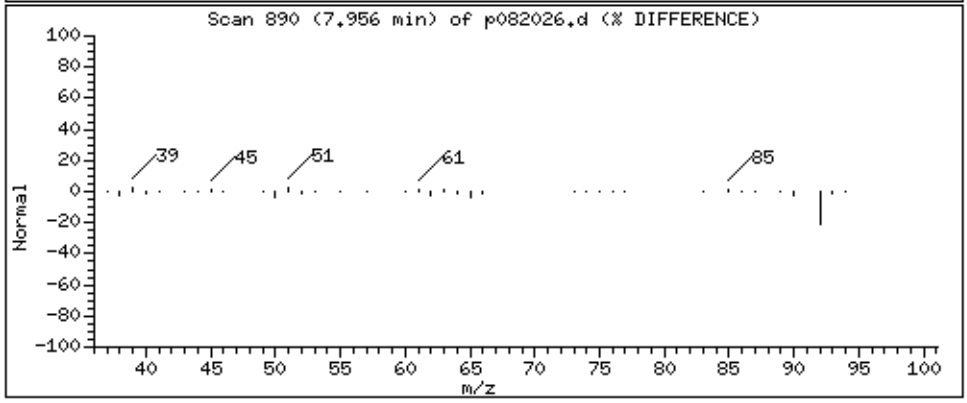












Data File: /chem/msdp.i/20AUG21.b/p082026.d

Date : 21-AUG-2021 02:43

Client ID:

Instrument: msdp.i

Sample Info: 200ml 00818

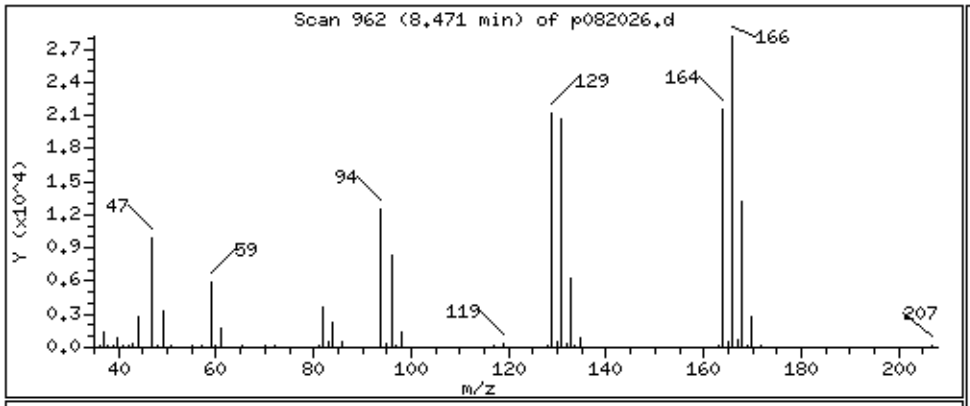
Operator: kk

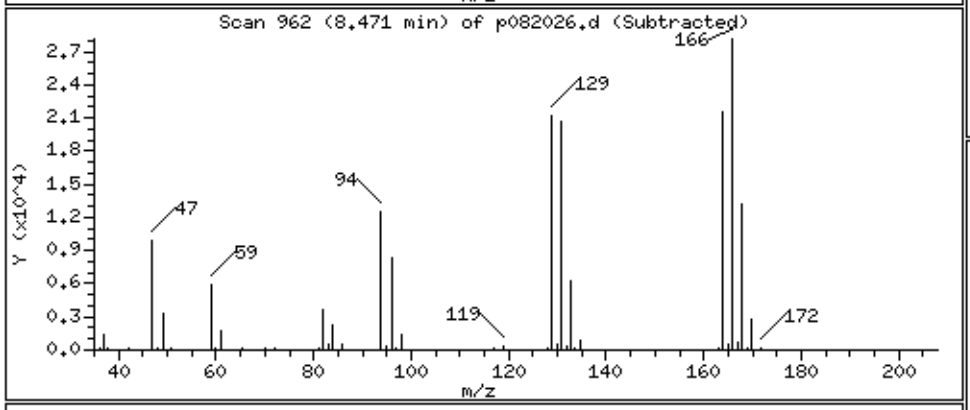
Column phase: RTX-624

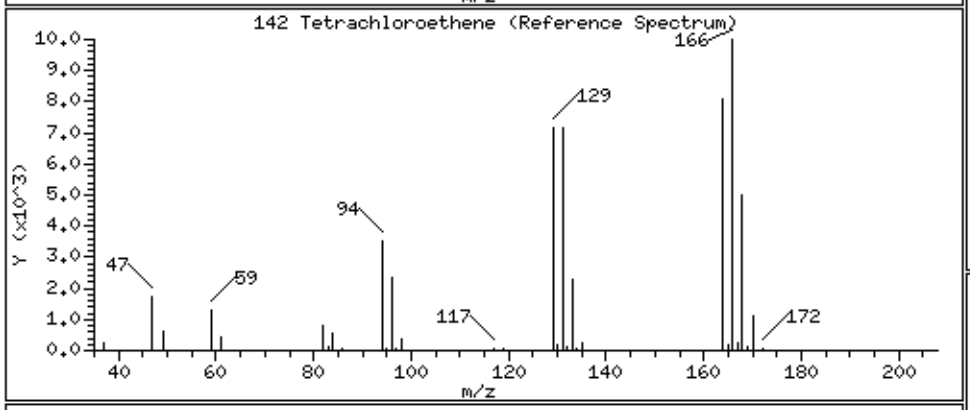
Column diameter: 0.25

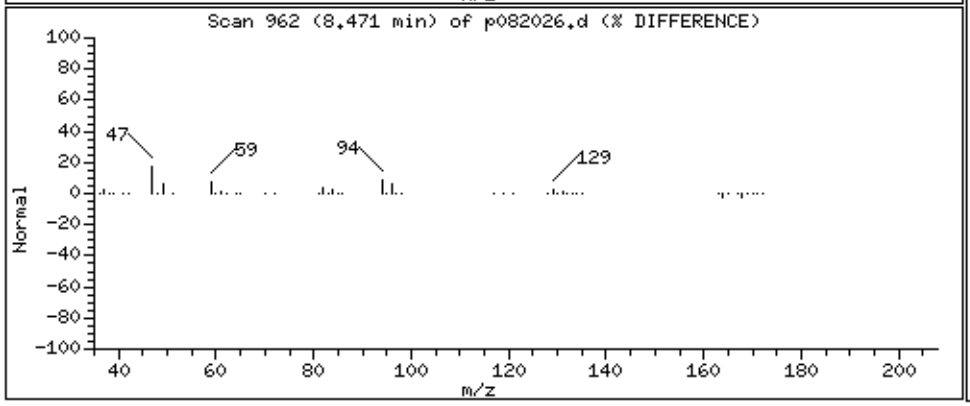
142 Tetrachloroethene

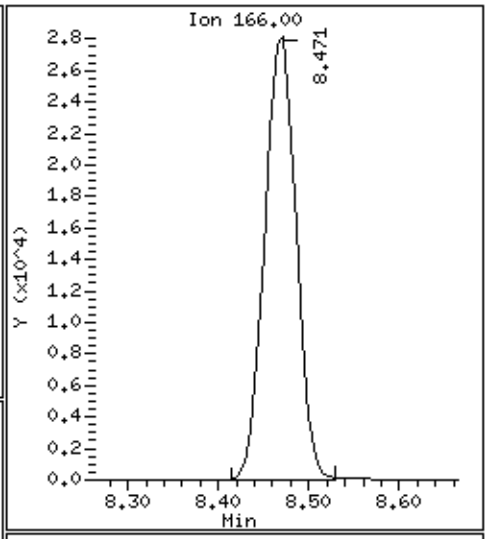
Concentration: 17.004 PPBV

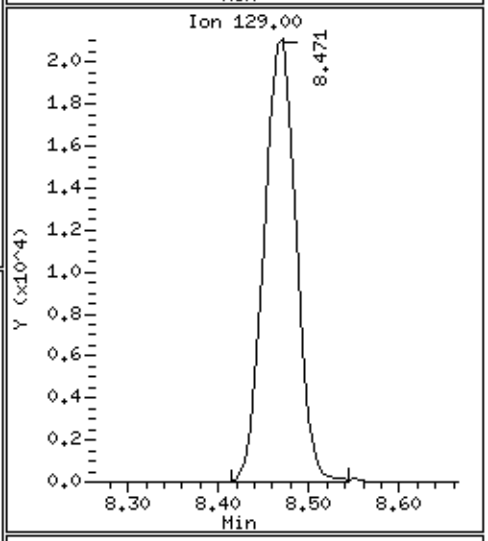


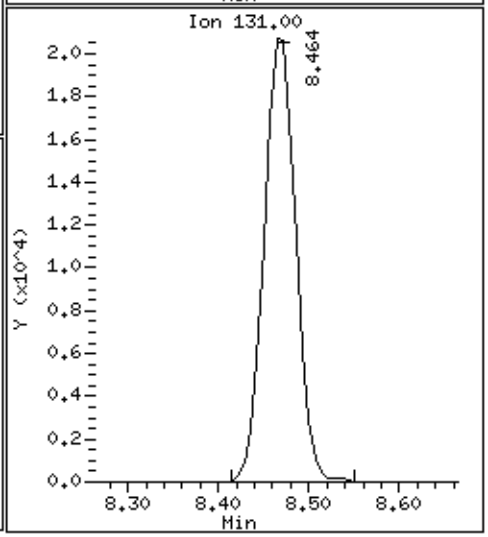












Data File: /chem/msdp.i/20AUG21.b/p082026.d

Date : 21-AUG-2021 02:43

Client ID:

Instrument: msdp.i

Sample Info: 200ml 00818

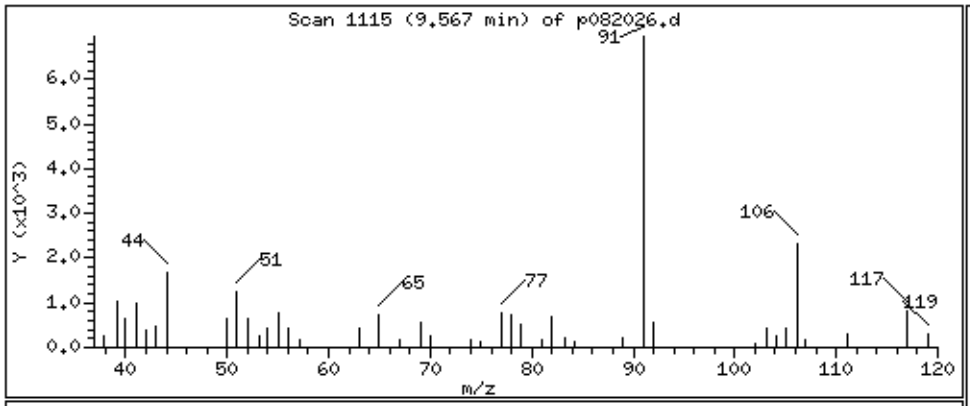
Operator: kk

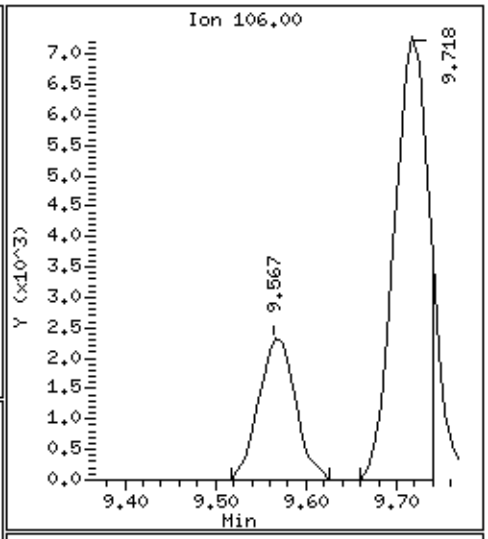
Column phase: RTX-624

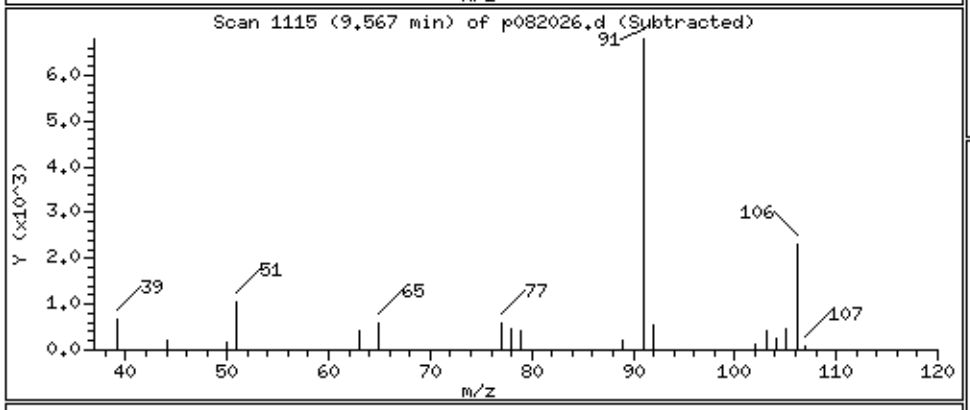
Column diameter: 0.25

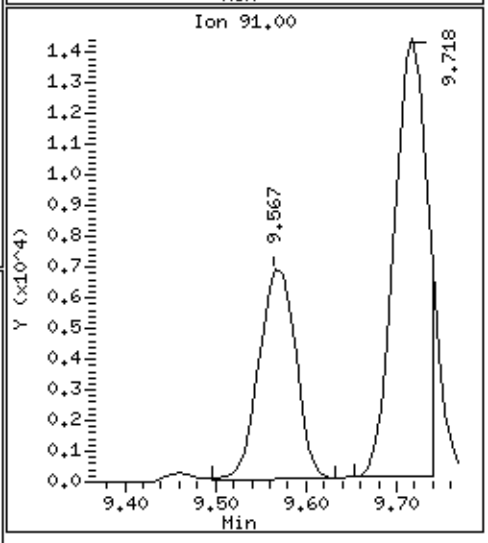
155 Ethyl Benzene

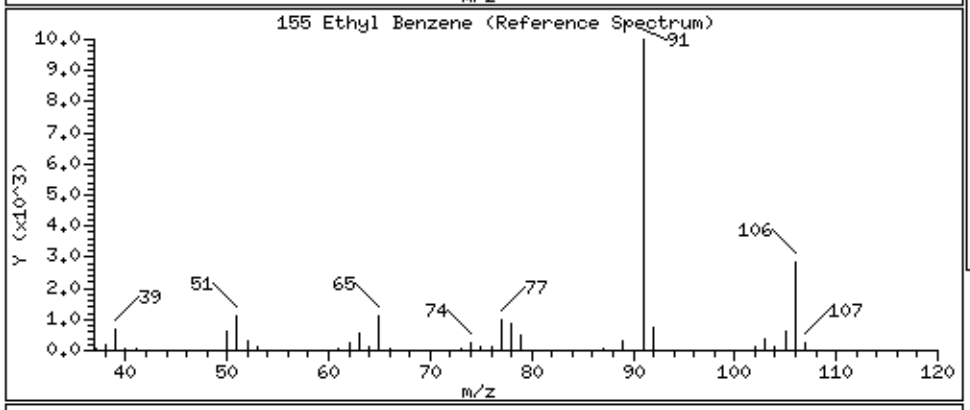
Concentration: 1.782 PPBV

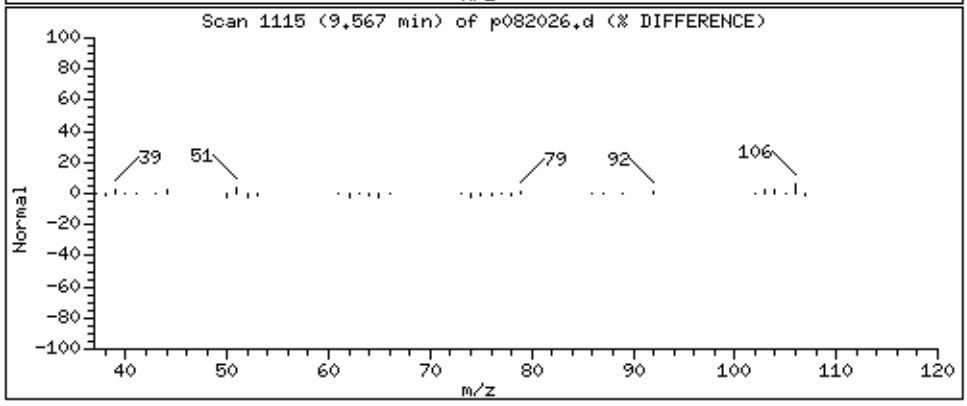












Data File: /chem/msdp.i/20AUG21.b/p082026.d

Date : 21-AUG-2021 02:43

Client ID:

Instrument: msdp.i

Sample Info: 200ml 00818

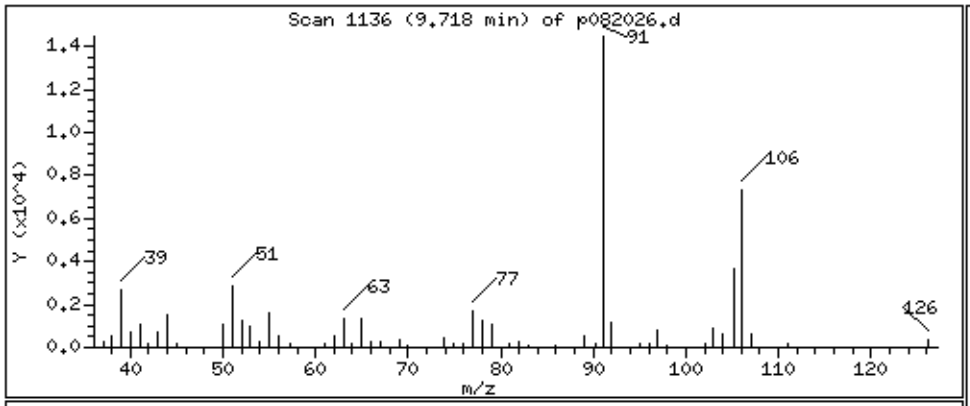
Operator: kk

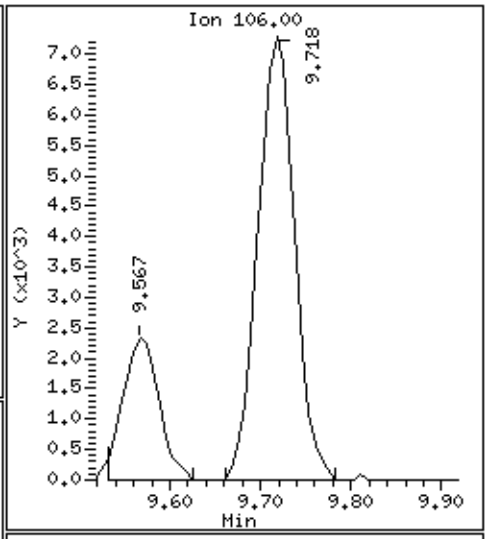
Column phase: RTX-624

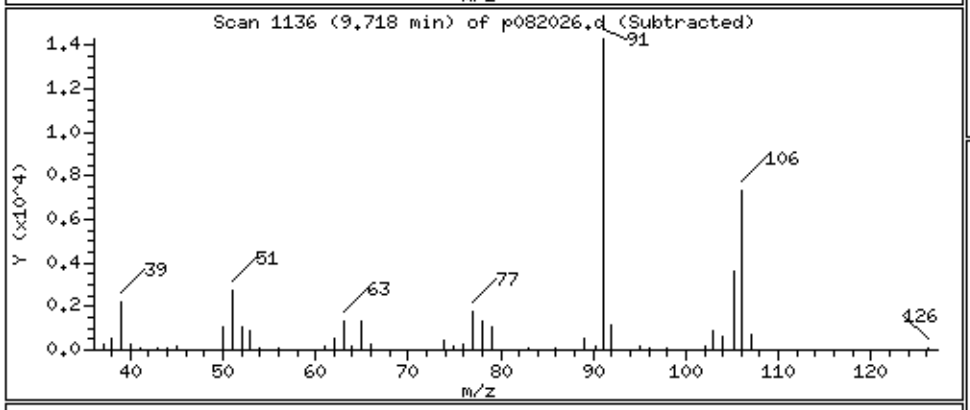
Column diameter: 0.25

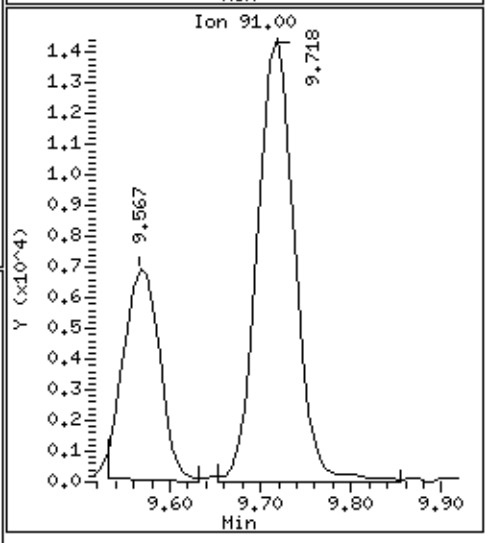
158 m,p-Xylene

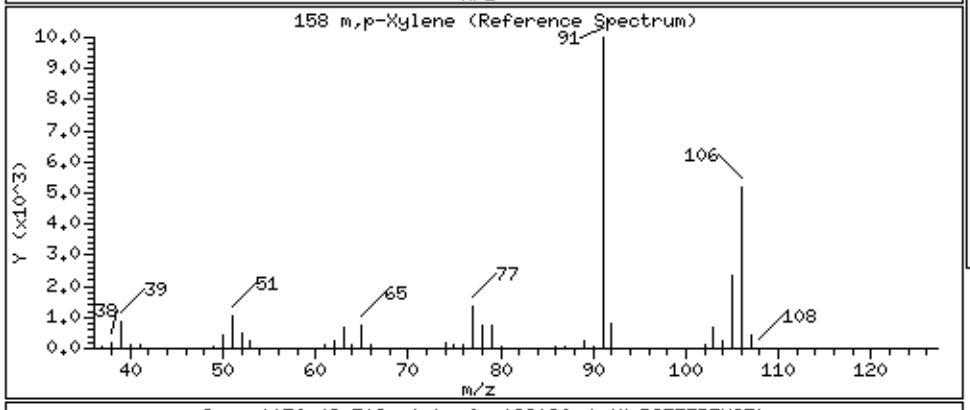
Concentration: 4.476 PPBV

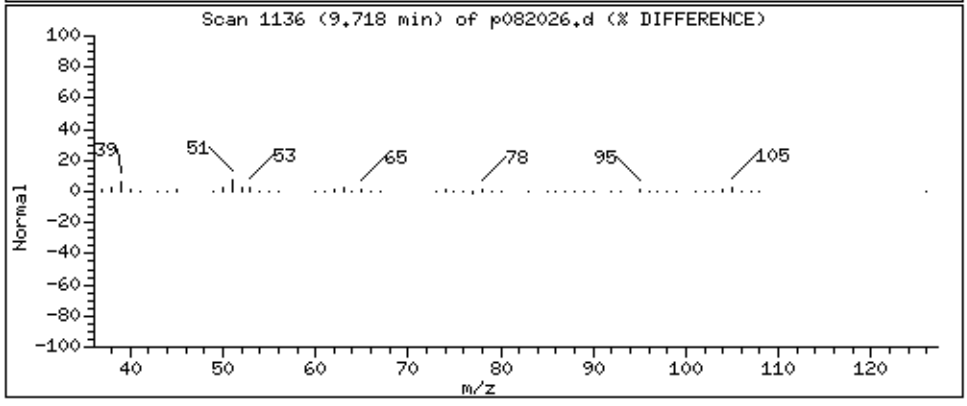












Data File: /chem/msdp.i/20AUG21.b/p082026.d

Date : 21-AUG-2021 02:43

Client ID:

Instrument: msdp.i

Sample Info: 200ml 00818

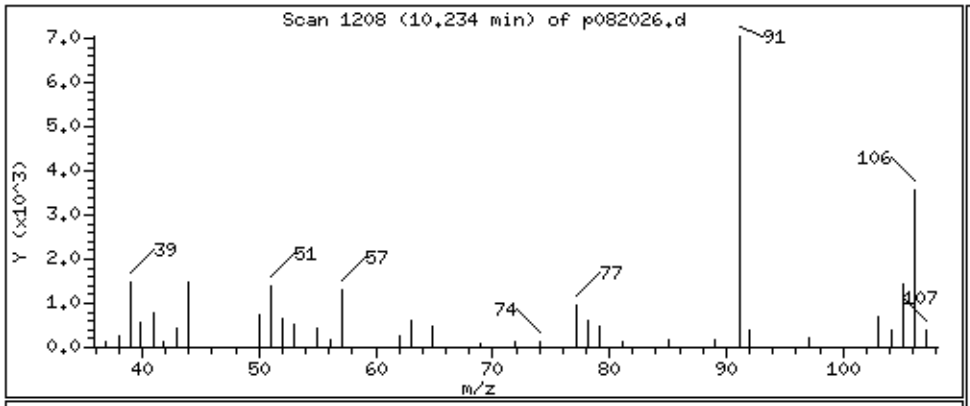
Operator: kk

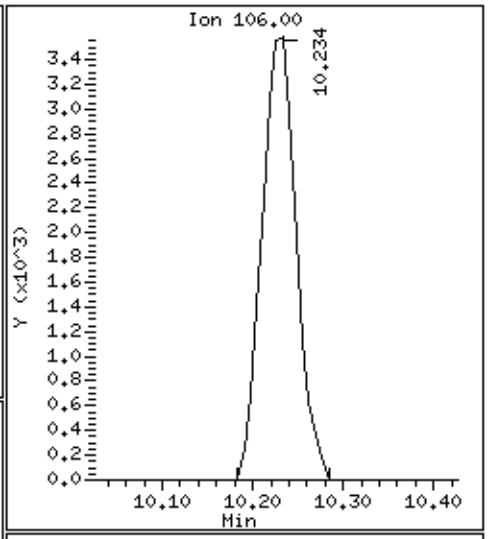
Column phase: RTX-624

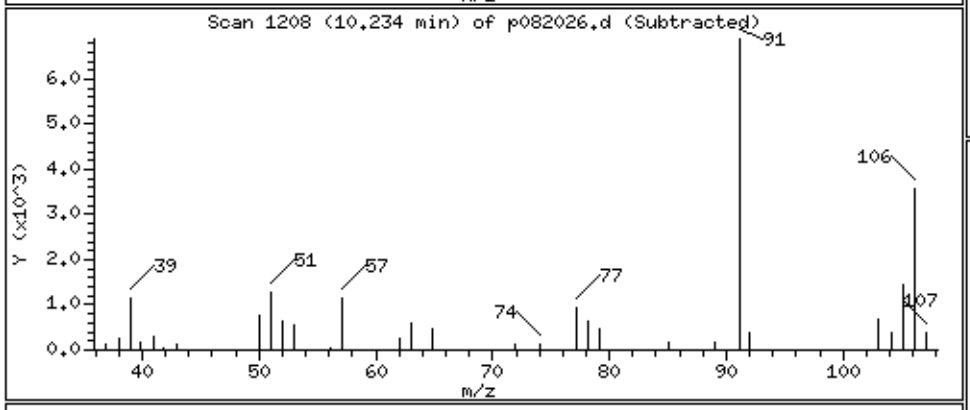
Column diameter: 0.25

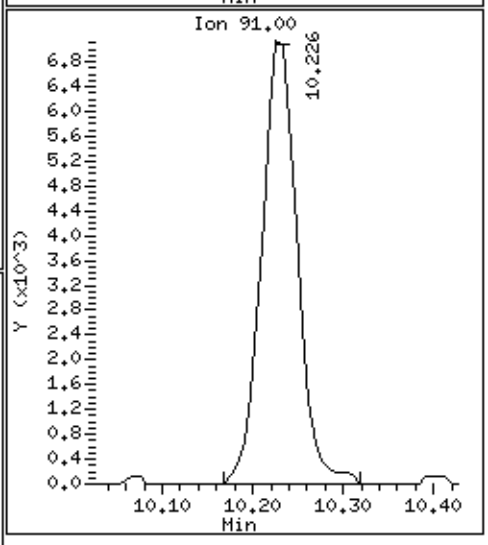
164 o-Xylene

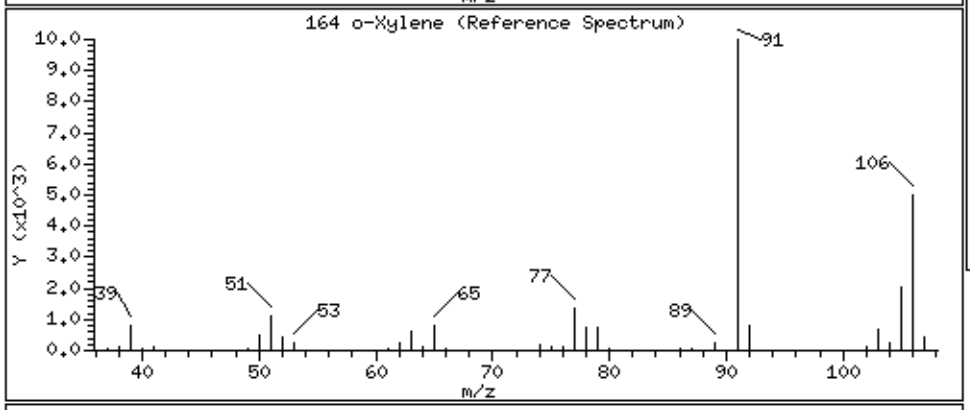
Concentration: 2.154 PPBV

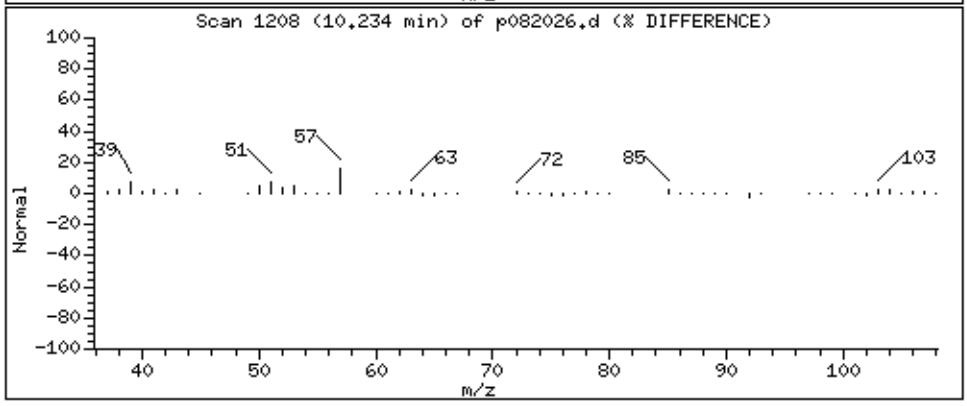












eurofins | Air Toxics

Client Sample ID: SG-VW63A-02

Lab ID#: 2108390-09A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p082016**	**Date of Collection:**	**8/16/21 2:42:00 PM**
Dil. Factor:	**2.10**	**Date of Analysis:**	**8/20/21 07:51 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1,2-Tetrachloroethane	4.2	Not Detected	29	Not Detected
1,1,1-Trichloroethane	1.0	Not Detected	5.7	Not Detected
1,1,2,2-Tetrachloroethane	1.0	Not Detected	7.2	Not Detected
1,1,2-Trichloroethane	1.0	Not Detected	5.7	Not Detected
1,1-Dichloroethane	1.0	Not Detected	4.2	Not Detected
1,1-Dichloroethene	1.0	Not Detected	4.2	Not Detected
1,1-Difluoroethane	4.2	Not Detected	11	Not Detected
1,2,3-Trichloropropane	4.2	Not Detected	25	Not Detected
1,2,4-Trichlorobenzene	4.2	Not Detected	31	Not Detected
1,2,4-Trimethylbenzene	1.0	Not Detected	5.2	Not Detected
1,2-Dibromo-3-chloropropane	4.2	Not Detected	40	Not Detected
1,2-Dibromoethane (EDB)	1.0	Not Detected	8.1	Not Detected
1,2-Dichlorobenzene	1.0	Not Detected	6.3	Not Detected
1,2-Dichloroethane	1.0	Not Detected	4.2	Not Detected
1,2-Dichloropropane	1.0	Not Detected	4.8	Not Detected
1,3,5-Trimethylbenzene	1.0	Not Detected	5.2	Not Detected
1,3-Butadiene	1.0	Not Detected	2.3	Not Detected
1,3-Dichlorobenzene	1.0	Not Detected	6.3	Not Detected
1,4-Dichlorobenzene	1.0	Not Detected	6.3	Not Detected
1,4-Dioxane	4.2	Not Detected	15	Not Detected
2,2,4-Trimethylpentane	1.0	Not Detected	4.9	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.2	Not Detected	12	Not Detected
2-Hexanone	4.2	Not Detected	17	Not Detected
2-Propanol	4.2	8.9	10	22
3-Chloropropene	4.2	Not Detected	13	Not Detected
4-Ethyltoluene	1.0	Not Detected	5.2	Not Detected
4-Methyl-2-pentanone	1.0	Not Detected	4.3	Not Detected
Acetone	10	14	25	34
Acrolein	4.2	Not Detected	9.6	Not Detected
Acrylonitrile	4.2	Not Detected	9.1	Not Detected
alpha-Chlorotoluene	1.0	Not Detected	5.4	Not Detected
Benzene	1.0	Not Detected	3.4	Not Detected
Bromodichloromethane	1.0	Not Detected	7.0	Not Detected
Bromoform	1.0	Not Detected	11	Not Detected
Bromomethane	10	Not Detected	41	Not Detected
Carbon Disulfide	4.2	Not Detected	13	Not Detected
Carbon Tetrachloride	1.0	Not Detected	6.6	Not Detected
Chlorobenzene	1.0	Not Detected	4.8	Not Detected
Chloroethane	4.2	Not Detected	11	Not Detected
Chloroform	1.0	2.6	5.1	13
Chloromethane	10	Not Detected	22	Not Detected
cis-1,2-Dichloroethene	1.0	Not Detected	4.2	Not Detected

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Client Sample ID: SG-VW63A-02

Lab ID#: 2108390-09A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p082016**	**Date of Collection:**	**8/16/21 2:42:00 PM**
Dil. Factor:	**2.10**	**Date of Analysis:**	**8/20/21 07:51 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,3-Dichloropropene	1.0	Not Detected	4.8	Not Detected
Cumene	1.0	Not Detected	5.2	Not Detected
Cyclohexane	1.0	Not Detected	3.6	Not Detected
Dibromochloromethane	1.0	Not Detected	8.9	Not Detected
Dibromomethane	4.2	Not Detected	30	Not Detected
Ethanol	10	Not Detected	20	Not Detected
Ethyl Acetate	4.2	Not Detected	15	Not Detected
Ethyl Benzene	1.0	Not Detected	4.6	Not Detected
Ethyl-tert-butyl ether	4.2	Not Detected	18	Not Detected
Freon 11	1.0	Not Detected	5.9	Not Detected
Freon 12	1.0	2.3	5.2	11
Freon 113	1.0	Not Detected	8.0	Not Detected
Freon 114	1.0	Not Detected	7.3	Not Detected
Freon 134a	4.2	Not Detected	18	Not Detected
Heptane	1.0	Not Detected	4.3	Not Detected
Hexachlorobutadiene	4.2	Not Detected	45	Not Detected
Hexachloroethane	4.2	Not Detected	41	Not Detected
Hexane	1.0	53	3.7	190
Iodomethane	10	Not Detected	61	Not Detected
Isopropyl ether	4.2	Not Detected	18	Not Detected
m,p-Xylene	1.0	1.2	4.6	5.5
Methyl tert-butyl ether	4.2	Not Detected	15	Not Detected
Methylene Chloride	10	Not Detected	36	Not Detected
Naphthalene	2.1	Not Detected	11	Not Detected
o-Xylene	1.0	Not Detected	4.6	Not Detected
Propylbenzene	1.0	Not Detected	5.2	Not Detected
Propylene	4.2	Not Detected	7.2	Not Detected
Styrene	1.0	Not Detected	4.5	Not Detected
tert-Amyl methyl ether	4.2	Not Detected	18	Not Detected
tert-Butyl alcohol	4.2	Not Detected	13	Not Detected
Tetrachloroethene	1.0	2.1	7.1	14
Tetrahydrofuran	1.0	Not Detected	3.1	Not Detected
Toluene	1.0	Not Detected	4.0	Not Detected
TPH ref. to Gasoline (MW=100)	100	140	430	570
trans-1,2-Dichloroethene	1.0	Not Detected	4.2	Not Detected
trans-1,3-Dichloropropene	1.0	Not Detected	4.8	Not Detected
Trichloroethene	1.0	Not Detected	5.6	Not Detected
Vinyl Acetate	4.2	Not Detected	15	Not Detected
Vinyl Bromide	4.2	Not Detected	18	Not Detected
Vinyl Chloride	1.0	Not Detected	2.7	Not Detected

Container Type: 1 Liter Summa Canister

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Client Sample ID: SG-VW63A-02

Lab ID#: 2108390-09A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p082016**	**Date of Collection:**	**8/16/21 2:42:00 PM**
Dil. Factor:	**2.10**	**Date of Analysis:**	**8/20/21 07:51 PM**

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	111	70-130
4-Bromofluorobenzene	106	70-130

US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/20AUG21.b/p082016.d
Lab Smp Id: 2108390-09A
Inj Date : 20-AUG-2021 19:51
Operator : mjb Inst ID: msdp.i
Smp Info : 200ml 1L2710
Misc Info : 6.0 Hg->10 psi
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/20AUG21.b/p21q0519a.m
Meth Date : 20-Aug-2021 12:59 p5fl Quant Type: ISTD
Cal Date : 19-MAY-2021 19:45 Cal File: p051915.d
Als bottle: 9
Dil Factor: 2.10000
Integrator: HP RTE Compound Sublist: AEC25677.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE		(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 90 Bromochloromethane						CAS #: 74-97-5		
5.785	5.785 (1.000)	130	105799	25.0000			80.00- 120.00	100.00
5.785	5.785 (1.000)	128	81552				48.23- 108.23	77.08
5.785	5.778 (1.000)	49	243747				150.57- 210.57	230.39
* 108 1,4-Difluorobenzene						CAS #: 540-36-3		
6.666	6.659 (1.000)	114	377980	25.0000			80.00- 120.00	100.00
6.666	6.659 (1.000)	88	54321				0.00- 45.71	14.37
* 153 Chlorobenzene-d5						CAS #: 3114-55-4		
9.460	9.460 (1.000)	117	388347	25.0000			80.00- 120.00	100.00
9.460	9.460 (1.000)	82	201212				23.78- 83.78	51.81
$ 104 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
6.315	6.315 (1.092)	65	162152	27.7716	27.772		80.00- 120.00	100.00
6.315	6.315 (1.092)	67	75274				27.21- 87.21	46.42
$ 134 Toluene-d8						CAS #: 2037-26-5		
7.891	7.891 (1.184)	98	423368	25.7941	25.794		80.00- 120.00	100.00
7.891	7.891 (1.184)	70	44718				0.00- 40.44	10.56

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 134 Toluene-d8 (continued)							
7.891	7.891 (1.184)	100	272708			34.95- 94.95	64.41
$ 170 4-Bromofluorobenzene					CAS #: 460-00-4		
10.921	10.921 (1.154)	174	263256	26.3987	26.399	80.00- 120.00	100.00
10.914	10.914 (1.154)	95	305759			95.92- 155.92	116.15
10.921	10.921 (1.154)	176	250821			66.89- 126.89	95.28
8 Freon 12					CAS #: 75-71-8		
1.731	1.717 (0.299)	85	10213	1.07630	2.260	80.00- 120.00	100.00
1.717	1.717 (0.297)	87	2786			2.37- 62.37	27.28
47 Acetone					CAS #: 67-64-1		
3.730	3.722 (0.645)	58	18828	6.78820	14.255	80.00- 120.00	100.00
3.730	3.722 (0.645)	43	74276			302.95- 362.95	394.49
52 2-Propanol					CAS #: 67-63-0		
3.909	3.894 (0.676)	45	47378	4.23827	8.900	80.00- 120.00	100.00
3.901	3.894 (0.674)	43	10656			0.00- 47.19	22.49
67 Hexane					CAS #: 110-54-3		
4.697	4.697 (0.812)	57	265211	25.4462	53.437	80.00- 120.00	100.00
4.697	4.697 (0.812)	43	210149			37.52- 97.52	79.24
4.697	4.697 (0.812)	86	26733			0.00- 41.48	10.08
92 Chloroform					CAS #: 67-66-3		
5.843	5.843 (1.010)	83	11315	1.22918	2.581	80.00- 120.00	100.00
5.843	5.843 (1.010)	85	6855			34.70- 94.70	60.58
142 Tetrachloroethene					CAS #: 127-18-4		
8.464	8.464 (0.895)	166	8855	1.00048	2.101	80.00- 120.00	100.00
8.464	8.464 (0.895)	129	7435			47.84- 107.84	83.96
8.464	8.464 (0.895)	131	7592			45.29- 105.29	85.74
158 m,p-Xylene					CAS #: 108-38-3		
9.711	9.718 (1.026)	106	6054	0.59946	1.259	80.00- 120.00	100.00
9.711	9.718 (1.026)	91	12935			163.73- 223.73	213.66

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p082016.d
Lab Smp Id: 2108390-09A
Analysis Type: VOA
Quant Type: ISTD
Operator: mjb
Method File: /chem/msdp.i/20AUG21.b/p21q0519a.m
Misc Info: 6.0 Hg->10 psi

Calibration Date: 20-AUG-2021
Calibration Time: 11:13
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	109375	65625	153125	105799	-3.27
108 1,4-Difluorobenze	406799	244079	569519	377980	-7.08
153 Chlorobenzene-d5	400841	240505	561177	388347	-3.12

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.79	5.46	6.12	5.79	0.00
108 1,4-Difluorobenze	6.66	6.33	6.99	6.67	0.11
153 Chlorobenzene-d5	9.46	9.13	9.79	9.46	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 24-Aug-2021 11:11

US32TAR1

RECOVERY REPORT

Client Name: Client SDG: 20AUG21
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 2108390-09A
Level: LOW Operator: mjb
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT20_new.spk Quant Type: ISTD
Sublist File: AEC25677.sub
Method File: /chem/msdp.i/20AUG21.b/p21q0519a.m
Misc Info: 6.0 Hg->10 psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 104 1,2-Dichloroethan	25.000	27.772	111.09	70-130
$ 134 Toluene-d8	25.000	25.794	103.18	70-130
$ 170 4-Bromofluorobenz	25.000	26.399	105.59	70-130

Data File: /chem/msdp.i/20AUG21.b/p082016.d

Date : 20-AUG-2021 19:51

Client ID:

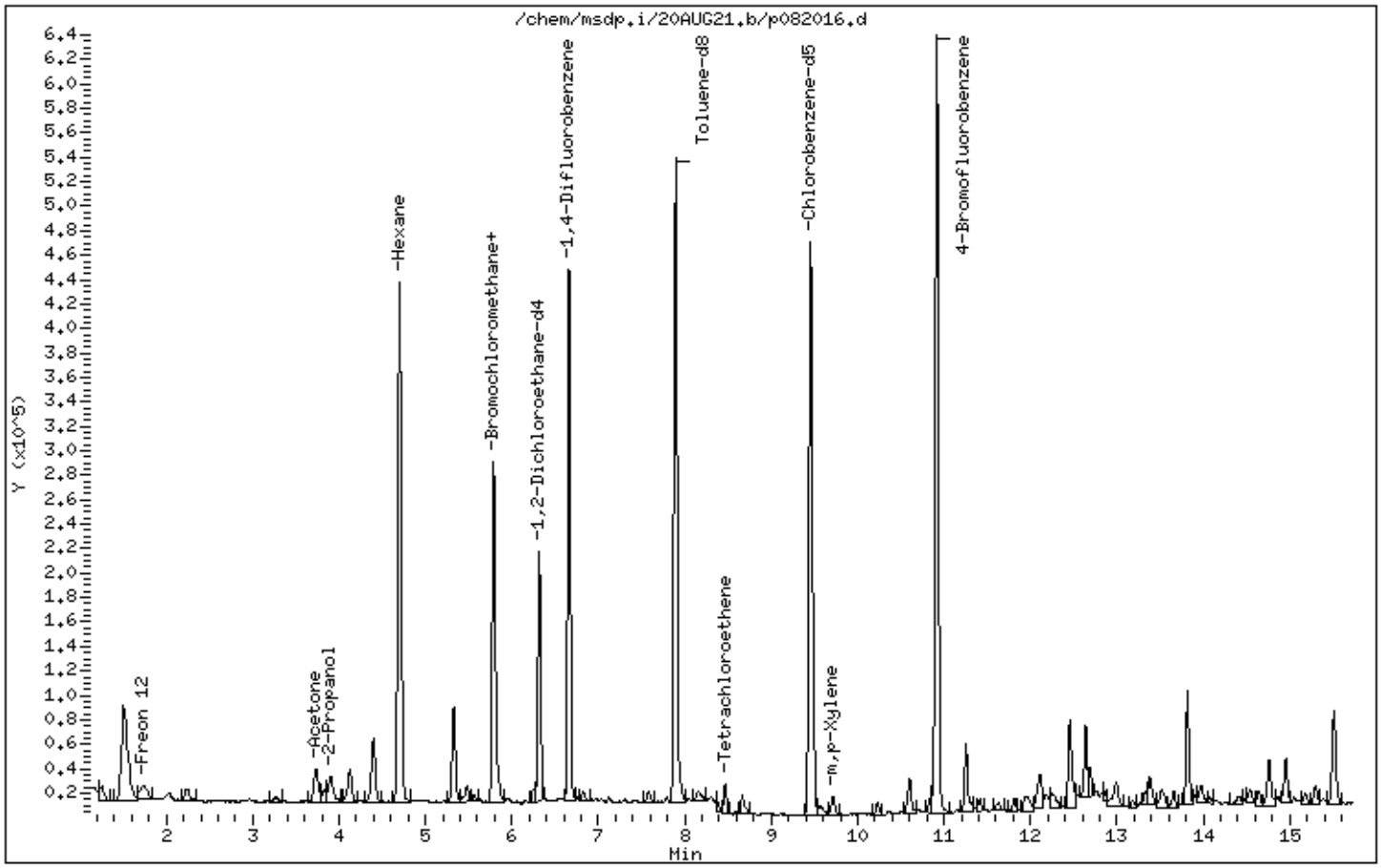
Instrument: msdp.i

Sample Info: 200ml 1L2710

Operator: mjb

Column phase: RTX-624

Column diameter: 0.25



Data File: /chem/msdp.i/20AUG21.b/p082016.d

Date : 20-AUG-2021 19:51

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1L2710

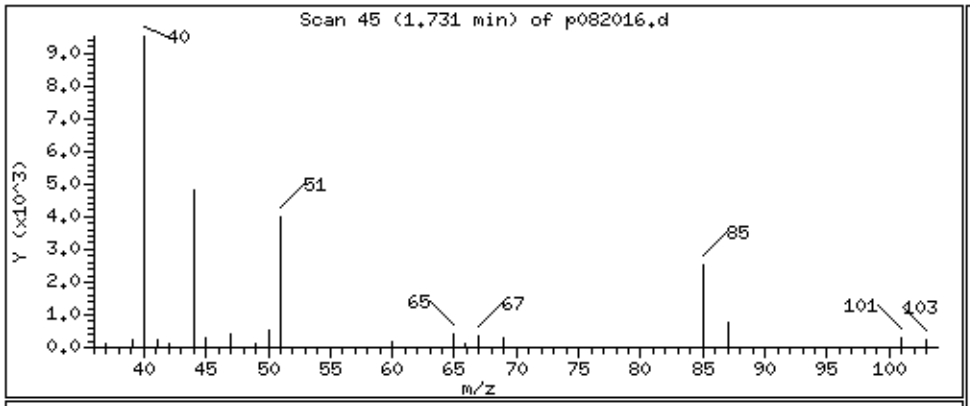
Operator: mjb

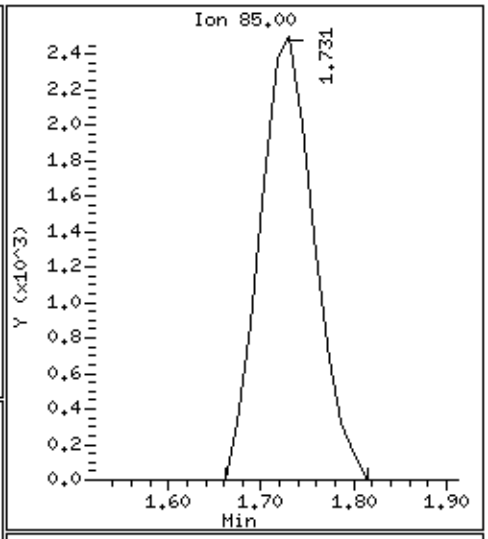
Column phase: RTX-624

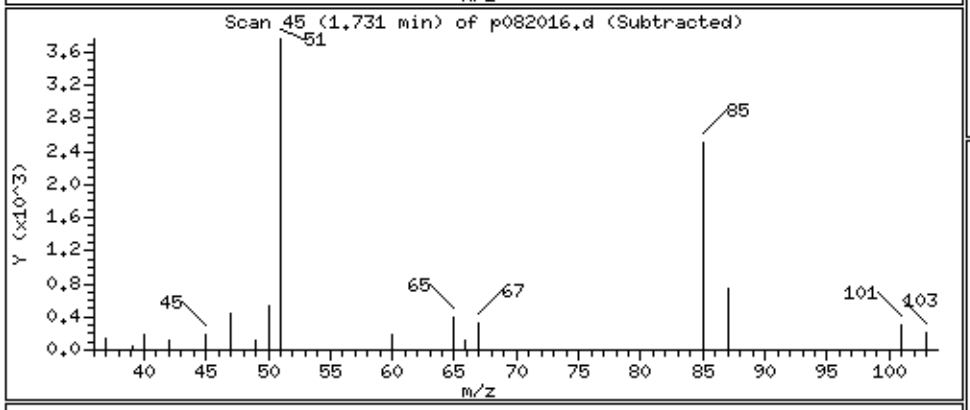
Column diameter: 0.25

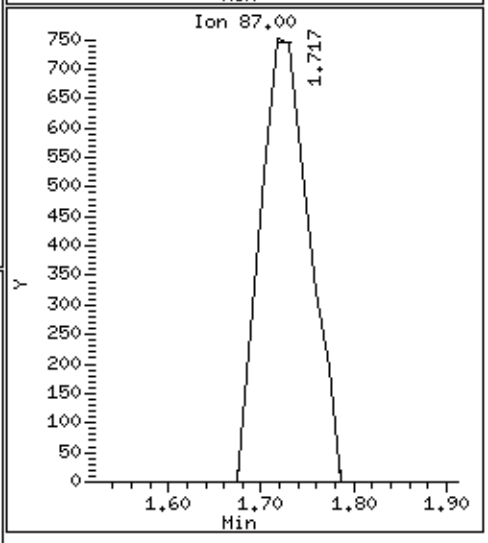
8 Freon 12

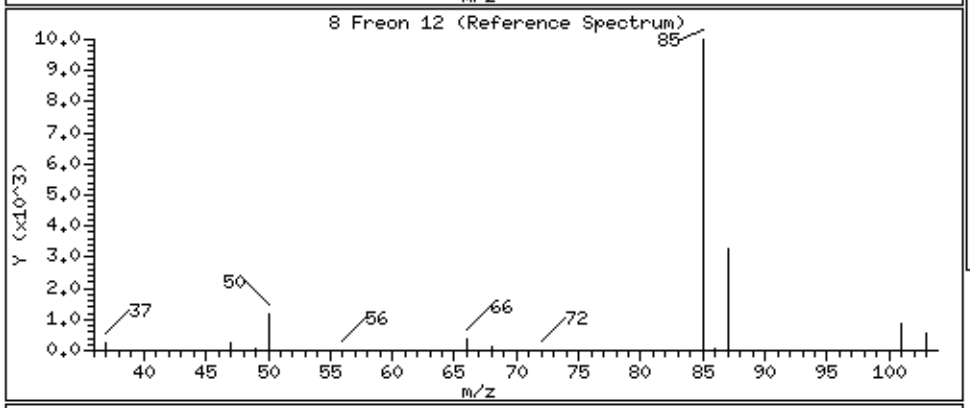
Concentration: 2.260 PPBV

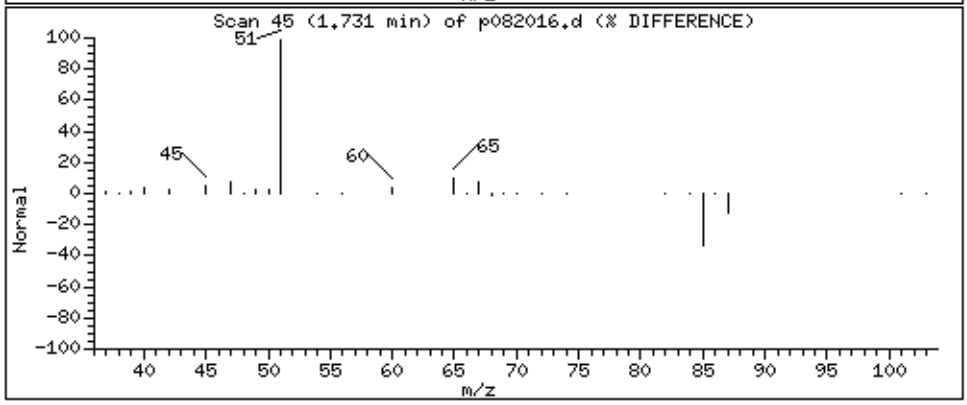












Data File: /chem/msdp.i/20AUG21.b/p082016.d

Date : 20-AUG-2021 19:51

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1L2710

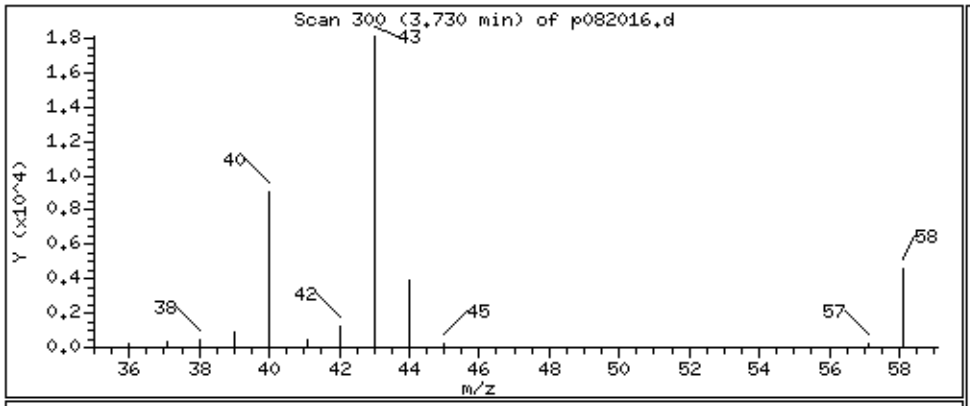
Operator: mjb

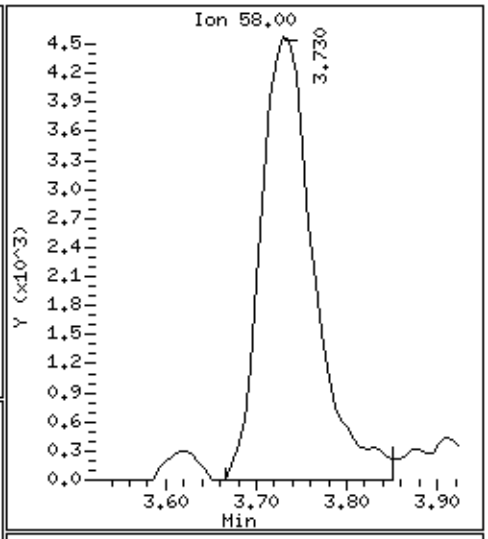
Column phase: RTX-624

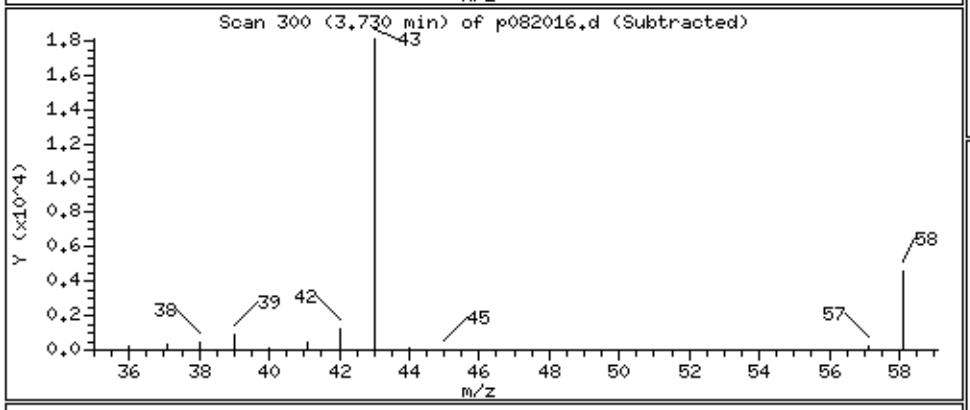
Column diameter: 0.25

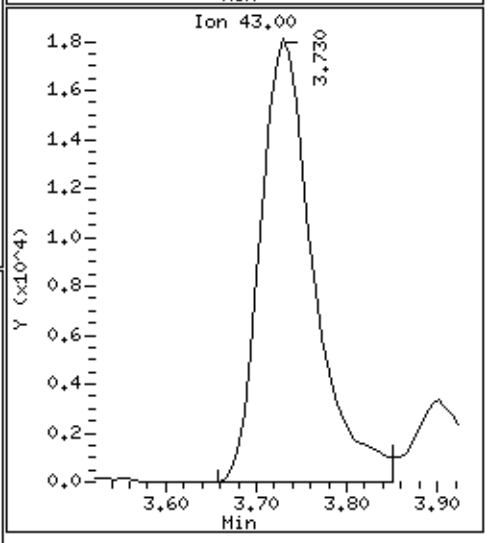
47 Acetone

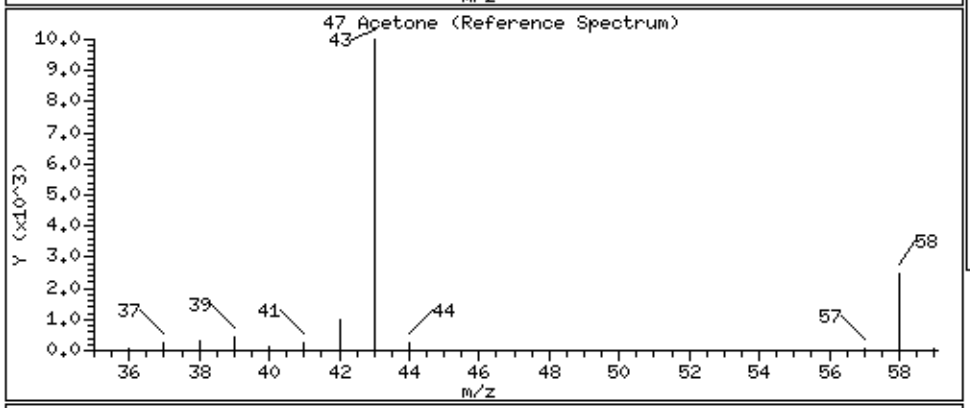
Concentration: 14.255 PPBV

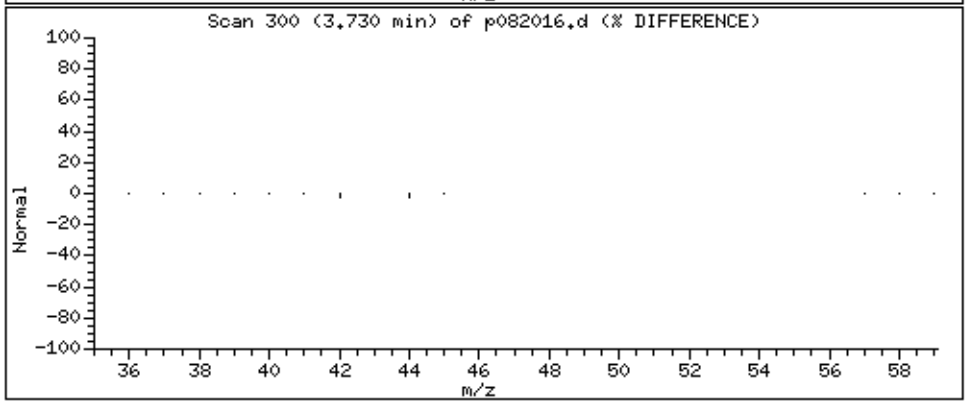












Data File: /chem/msdp.i/20AUG21.b/p082016.d

Date : 20-AUG-2021 19:51

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1L2710

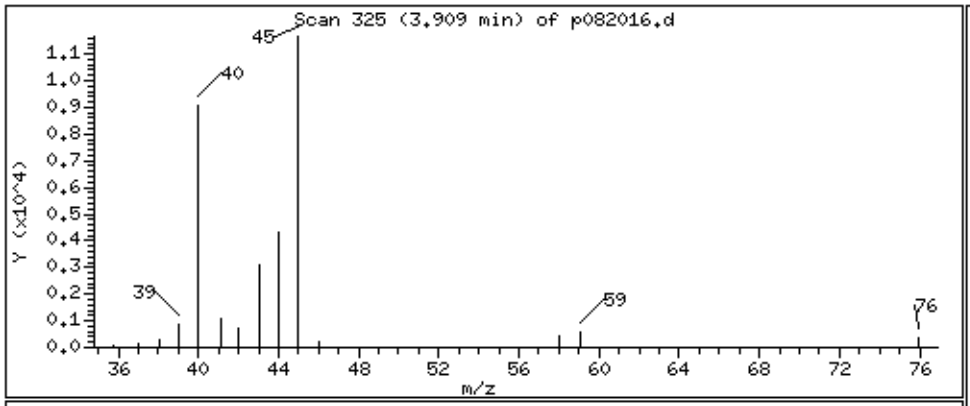
Operator: mjb

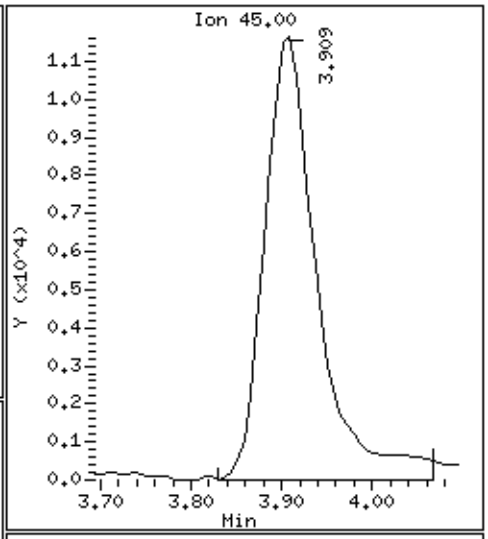
Column phase: RTX-624

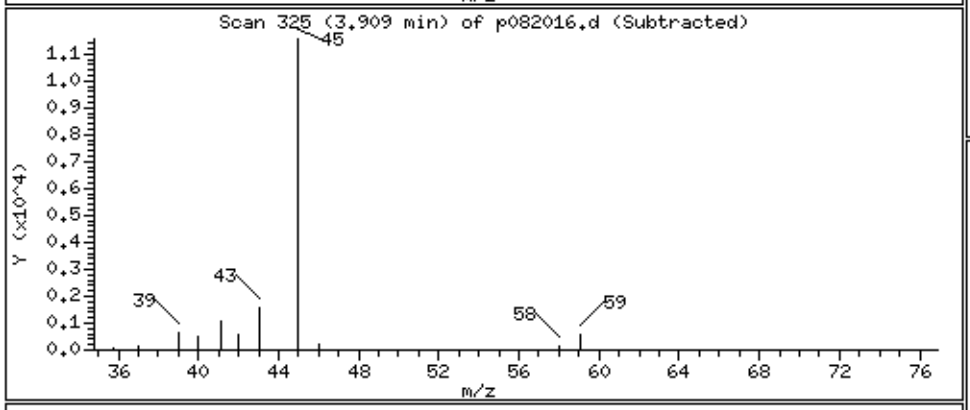
Column diameter: 0.25

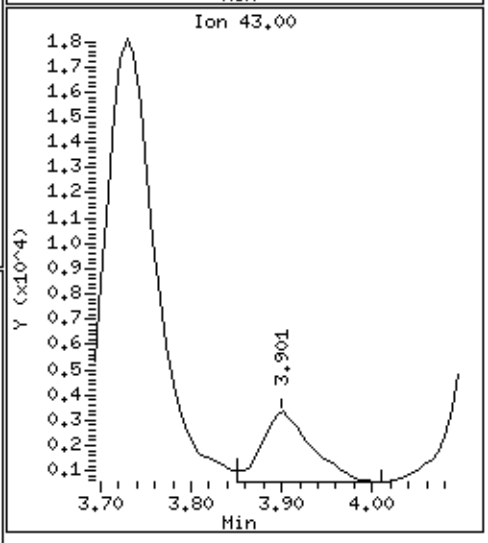
52 2-Propanol

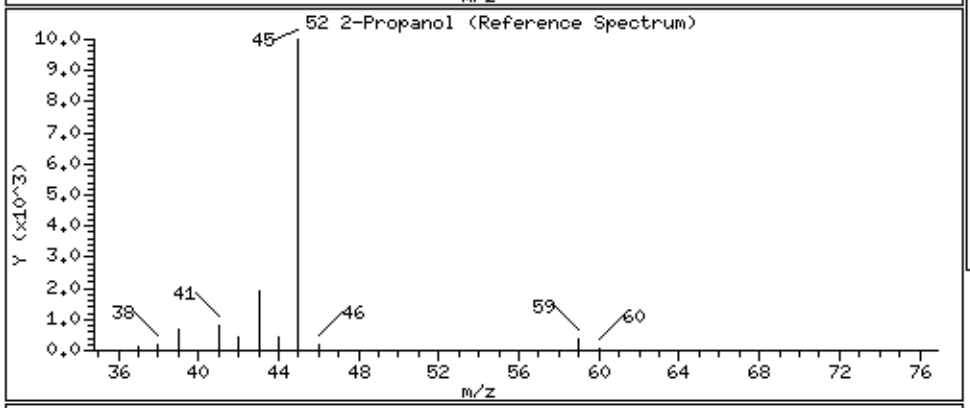
Concentration: 8.900 PPBV

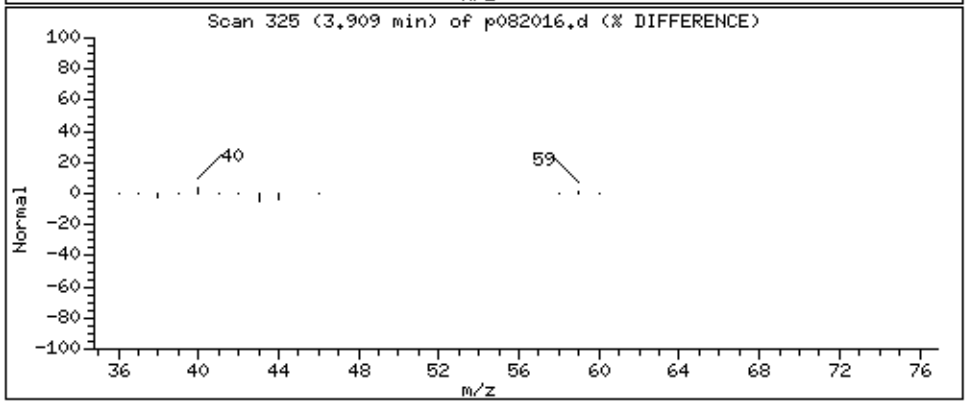












Data File: /chem/msdp.i/20AUG21.b/p082016.d

Date : 20-AUG-2021 19:51

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1L2710

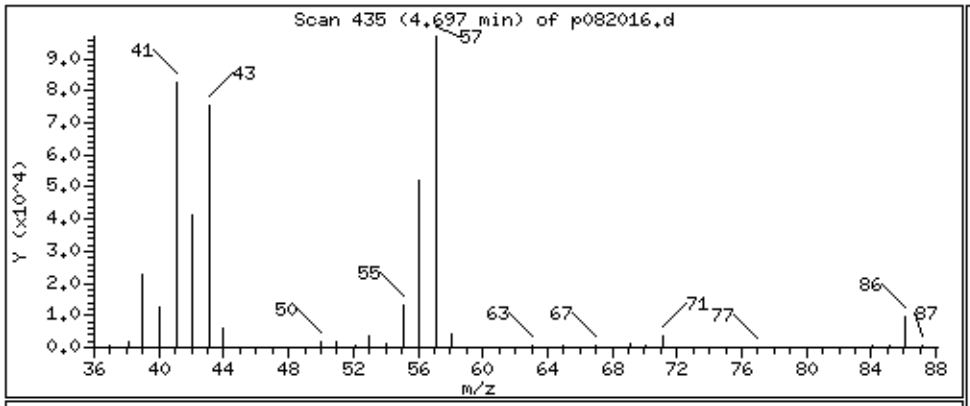
Operator: mjb

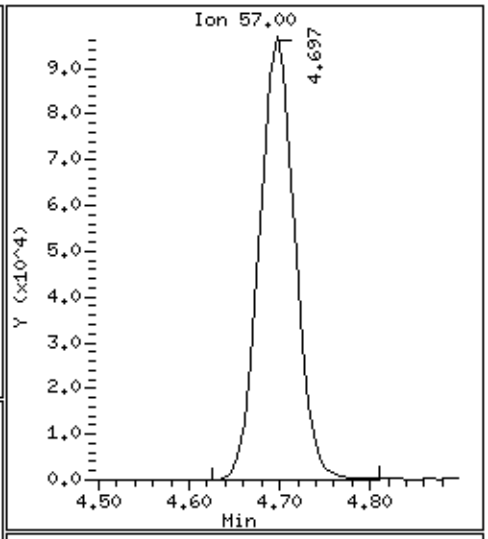
Column phase: RTX-624

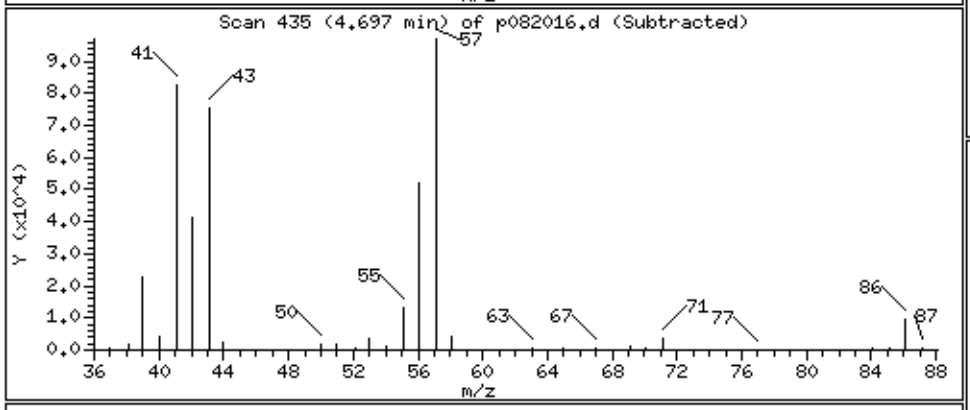
Column diameter: 0.25

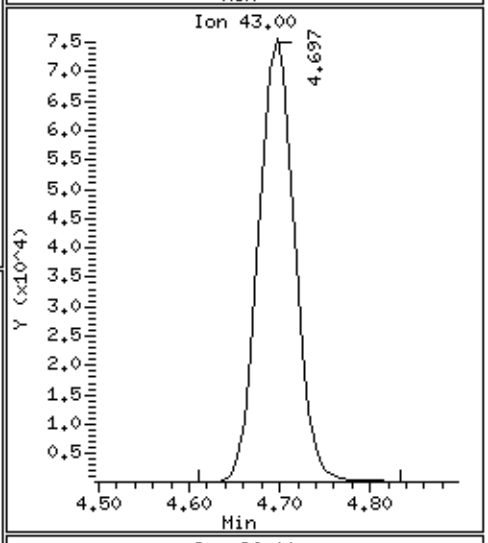
67 Hexane

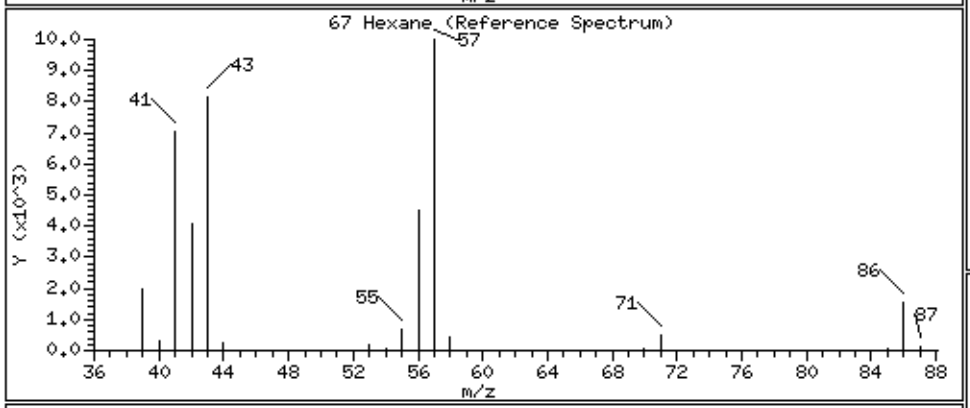
Concentration: 53.437 PPBV

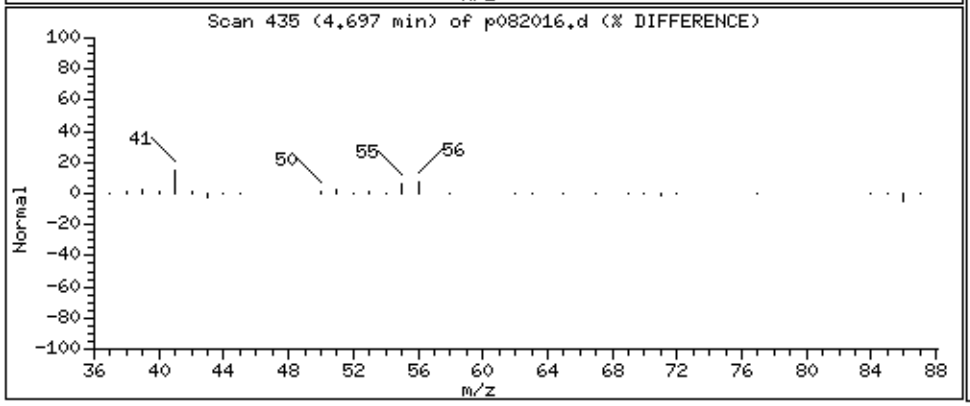


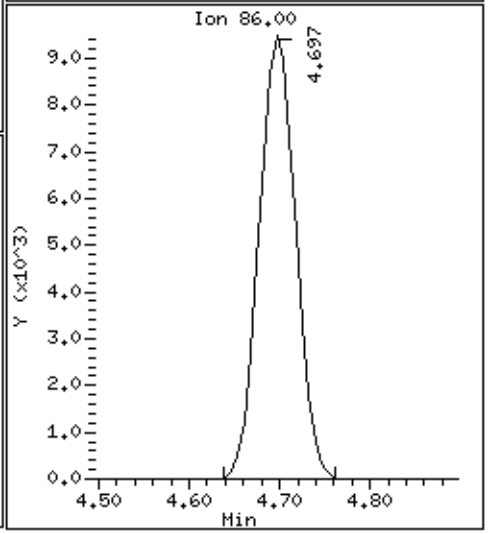












Data File: /chem/msdp.i/20AUG21.b/p082016.d

Date : 20-AUG-2021 19:51

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1L2710

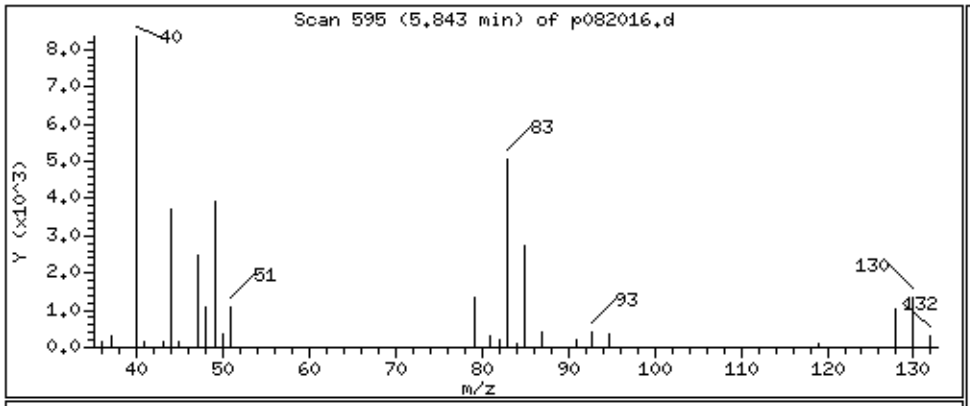
Operator: mjb

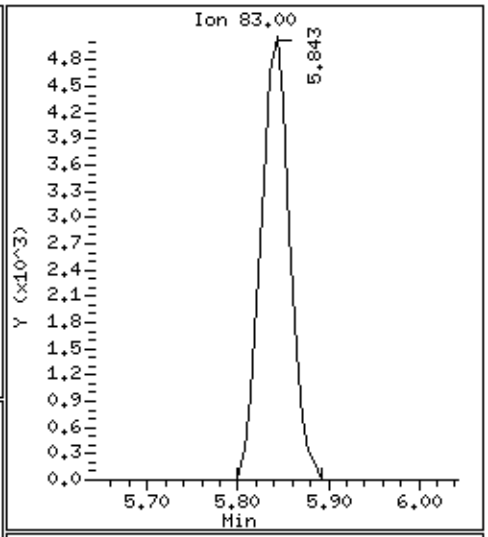
Column phase: RTX-624

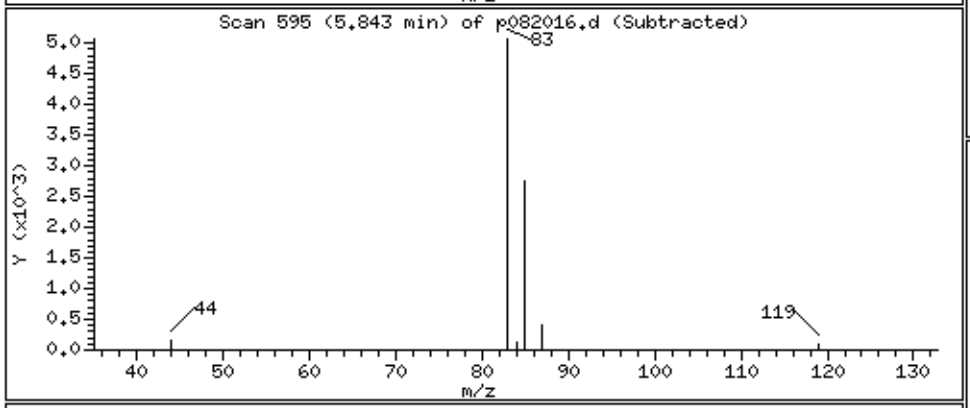
Column diameter: 0.25

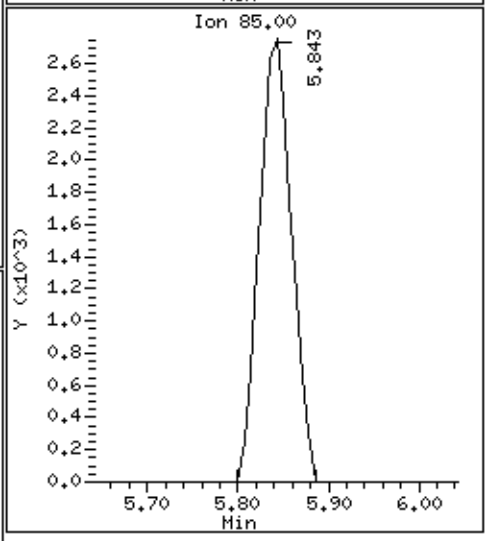
92 Chloroform

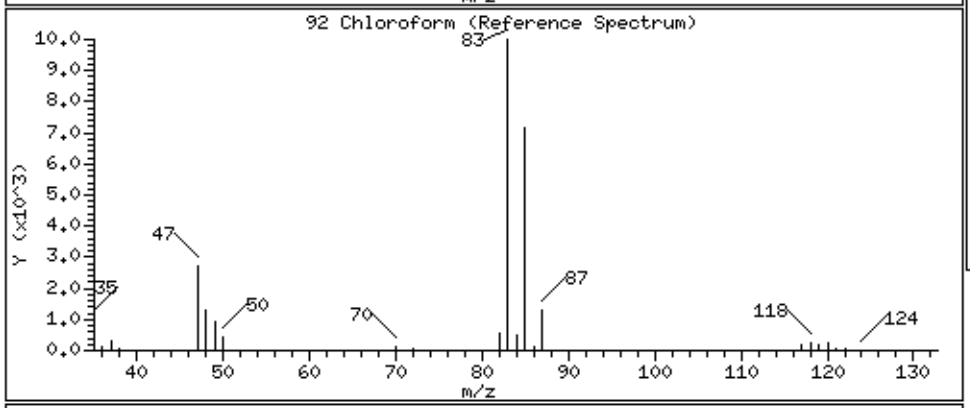
Concentration: 2.581 PPBV

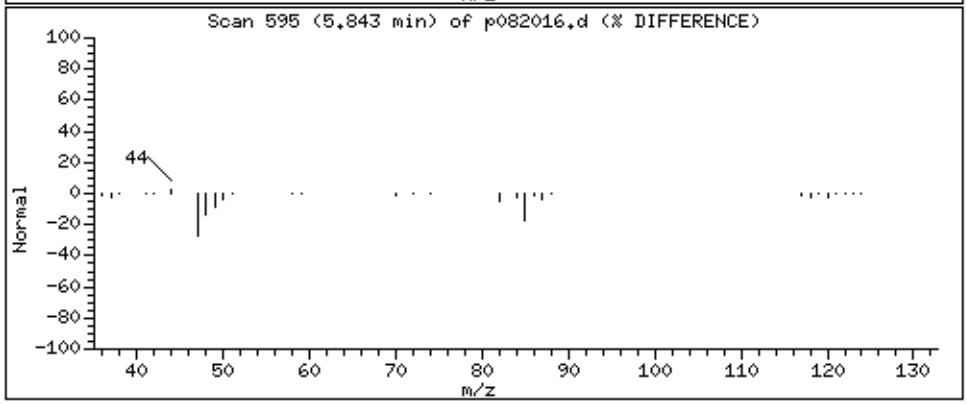












Data File: /chem/msdp.i/20AUG21.b/p082016.d

Page 7

Date : 20-AUG-2021 19:51

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1L2710

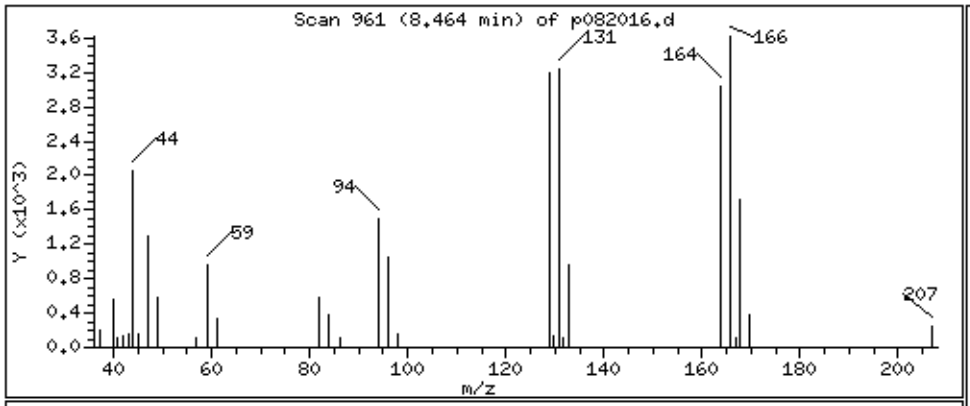
Operator: mjb

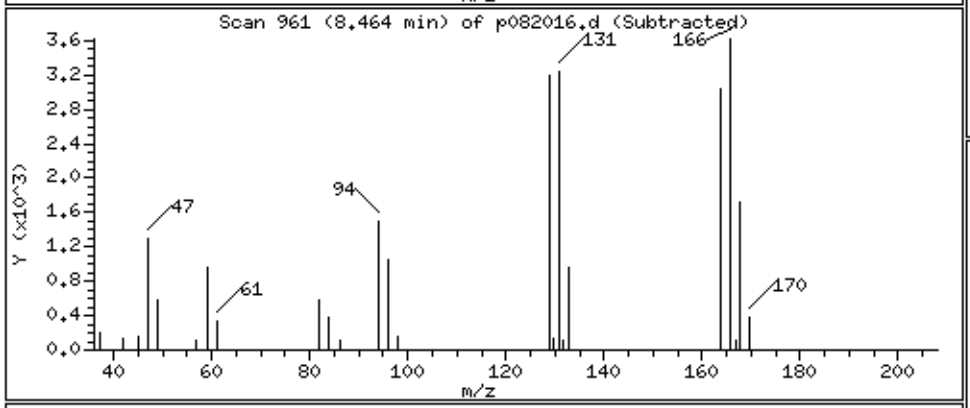
Column phase: RTX-624

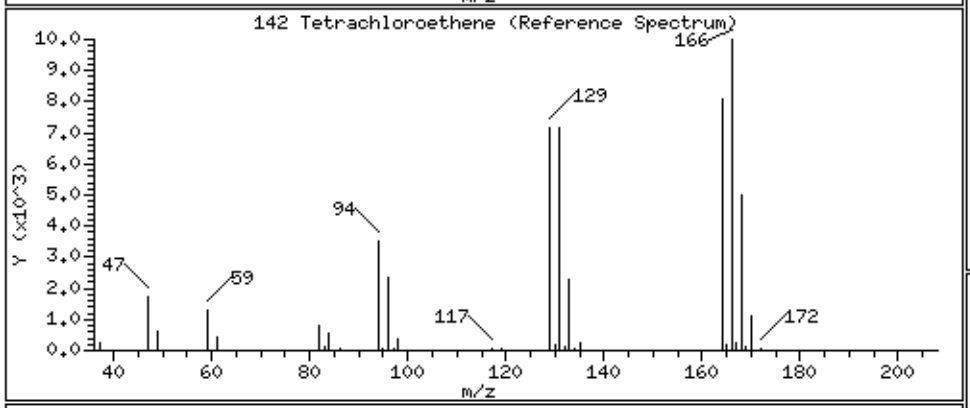
Column diameter: 0.25

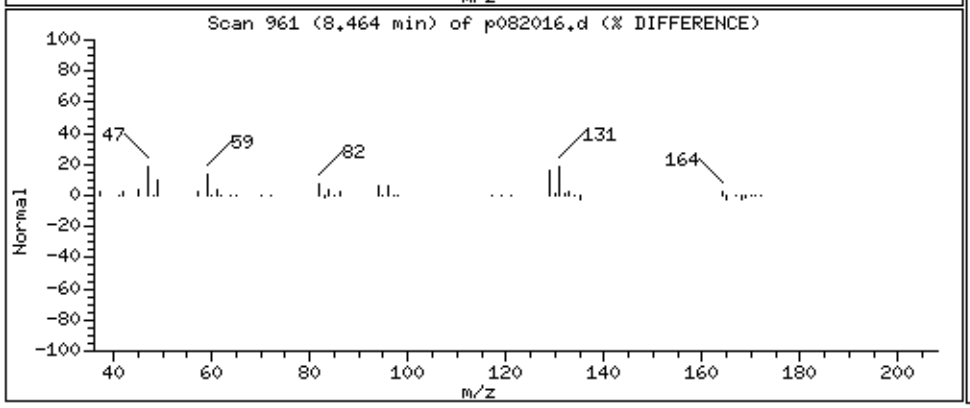
142 Tetrachloroethene

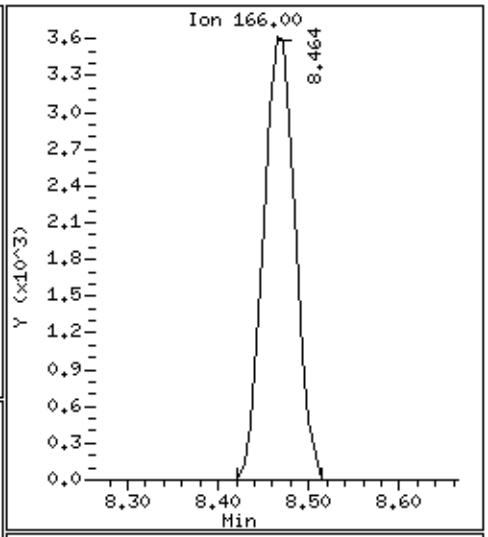
Concentration: 2.101 PPBV

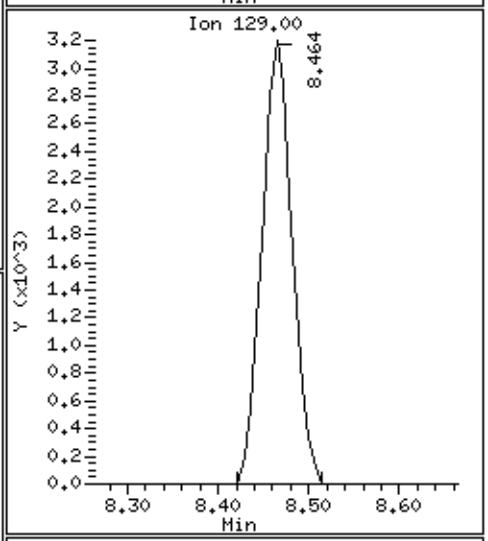


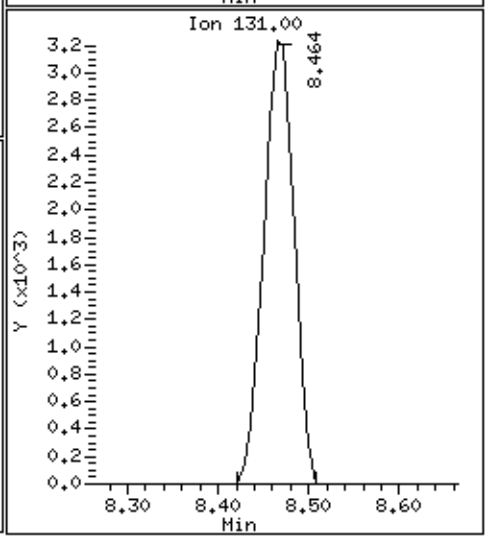












Data File: /chem/msdp.i/20AUG21.b/p082016.d

Date : 20-AUG-2021 19:51

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1L2710

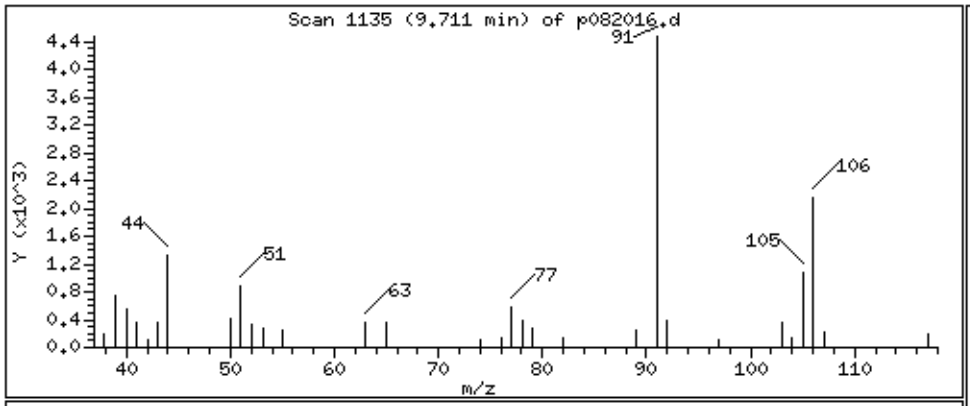
Operator: mjb

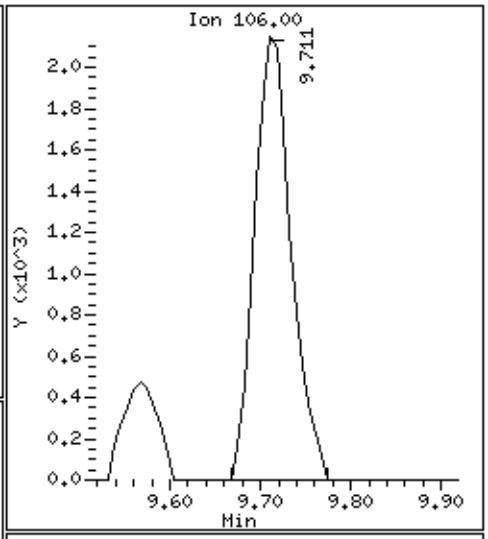
Column phase: RTX-624

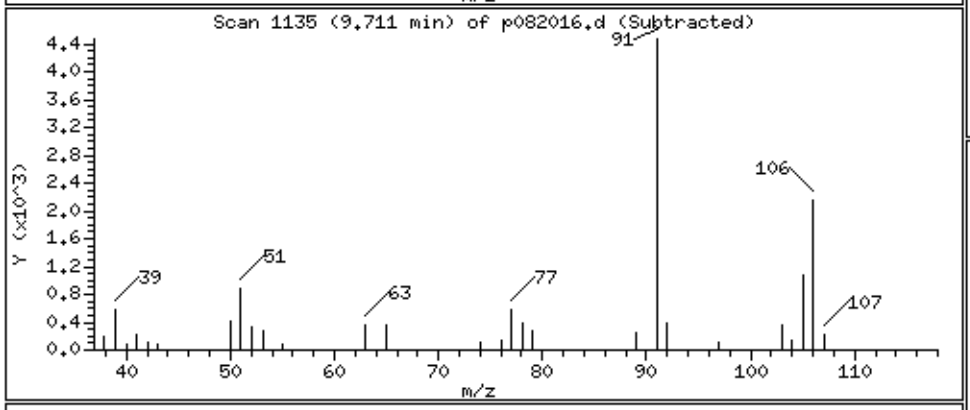
Column diameter: 0.25

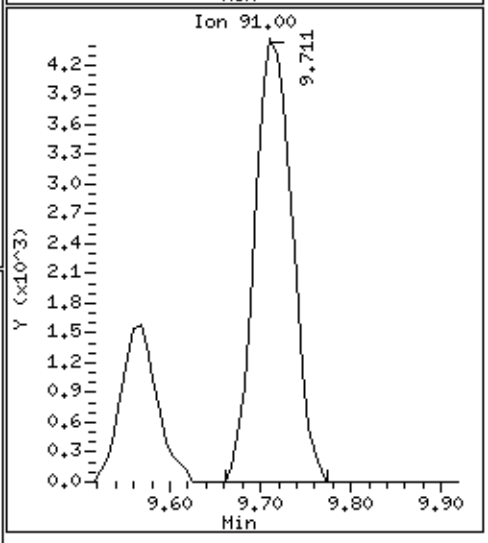
158 m,p-Xylene

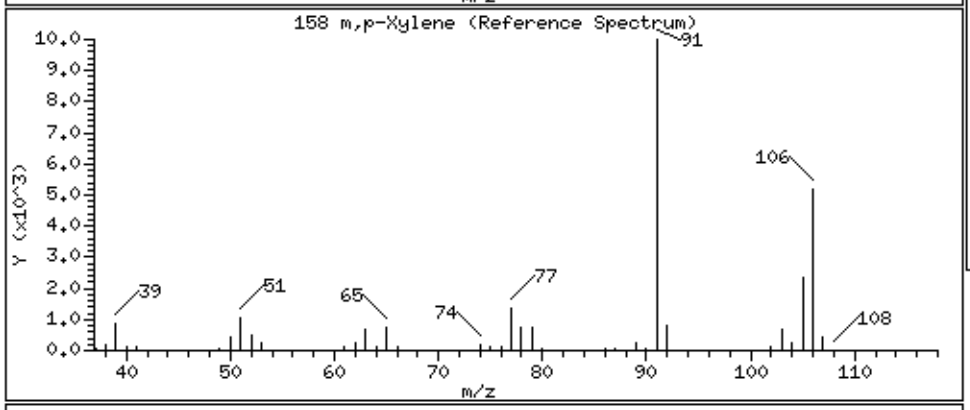
Concentration: 1.259 PPBV

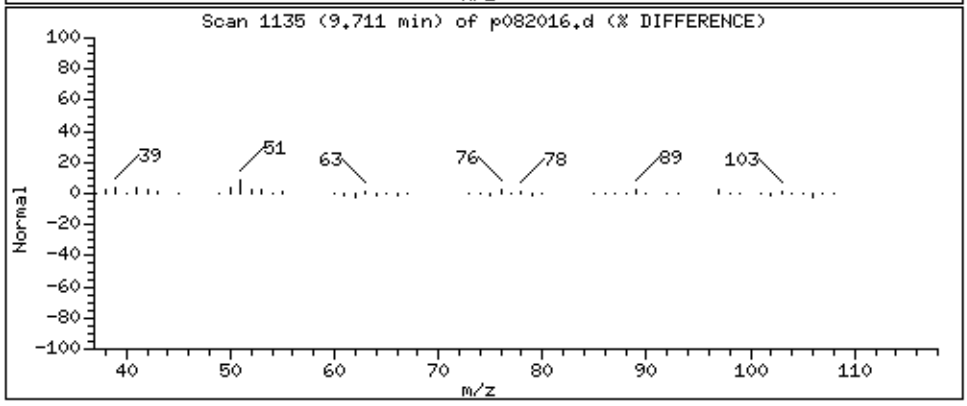












eurofins | Air Toxics

Client Sample ID: SG-VW63B-02

Lab ID#: 2108390-10A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p082017**	**Date of Collection:**	**8/16/21 3:18:00 PM**
Dil. Factor:	**2.10**	**Date of Analysis:**	**8/20/21 08:24 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1,2-Tetrachloroethane	4.2	Not Detected	29	Not Detected
1,1,1-Trichloroethane	1.0	Not Detected	5.7	Not Detected
1,1,2,2-Tetrachloroethane	1.0	Not Detected	7.2	Not Detected
1,1,2-Trichloroethane	1.0	Not Detected	5.7	Not Detected
1,1-Dichloroethane	1.0	Not Detected	4.2	Not Detected
1,1-Dichloroethene	1.0	Not Detected	4.2	Not Detected
1,1-Difluoroethane	4.2	Not Detected	11	Not Detected
1,2,3-Trichloropropane	4.2	Not Detected	25	Not Detected
1,2,4-Trichlorobenzene	4.2	Not Detected	31	Not Detected
1,2,4-Trimethylbenzene	1.0	Not Detected	5.2	Not Detected
1,2-Dibromo-3-chloropropane	4.2	Not Detected	40	Not Detected
1,2-Dibromoethane (EDB)	1.0	Not Detected	8.1	Not Detected
1,2-Dichlorobenzene	1.0	Not Detected	6.3	Not Detected
1,2-Dichloroethane	1.0	Not Detected	4.2	Not Detected
1,2-Dichloropropane	1.0	Not Detected	4.8	Not Detected
1,3,5-Trimethylbenzene	1.0	Not Detected	5.2	Not Detected
1,3-Butadiene	1.0	Not Detected	2.3	Not Detected
1,3-Dichlorobenzene	1.0	Not Detected	6.3	Not Detected
1,4-Dichlorobenzene	1.0	Not Detected	6.3	Not Detected
1,4-Dioxane	4.2	Not Detected	15	Not Detected
2,2,4-Trimethylpentane	1.0	Not Detected	4.9	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.2	Not Detected	12	Not Detected
2-Hexanone	4.2	Not Detected	17	Not Detected
2-Propanol	4.2	Not Detected	10	Not Detected
3-Chloropropene	4.2	Not Detected	13	Not Detected
4-Ethyltoluene	1.0	Not Detected	5.2	Not Detected
4-Methyl-2-pentanone	1.0	Not Detected	4.3	Not Detected
Acetone	10	Not Detected	25	Not Detected
Acrolein	4.2	Not Detected	9.6	Not Detected
Acrylonitrile	4.2	Not Detected	9.1	Not Detected
alpha-Chlorotoluene	1.0	Not Detected	5.4	Not Detected
Benzene	1.0	Not Detected	3.4	Not Detected
Bromodichloromethane	1.0	1.7	7.0	11
Bromoform	1.0	Not Detected	11	Not Detected
Bromomethane	10	Not Detected	41	Not Detected
Carbon Disulfide	4.2	Not Detected	13	Not Detected
Carbon Tetrachloride	1.0	Not Detected	6.6	Not Detected
Chlorobenzene	1.0	Not Detected	4.8	Not Detected
Chloroethane	4.2	Not Detected	11	Not Detected
Chloroform	1.0	32	5.1	150
Chloromethane	10	Not Detected	22	Not Detected
cis-1,2-Dichloroethene	1.0	Not Detected	4.2	Not Detected

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Client Sample ID: SG-VW63B-02

Lab ID#: 2108390-10A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p082017**	**Date of Collection:**	**8/16/21 3:18:00 PM**
Dil. Factor:	**2.10**	**Date of Analysis:**	**8/20/21 08:24 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,3-Dichloropropene	1.0	Not Detected	4.8	Not Detected
Cumene	1.0	Not Detected	5.2	Not Detected
Cyclohexane	1.0	Not Detected	3.6	Not Detected
Dibromochloromethane	1.0	Not Detected	8.9	Not Detected
Dibromomethane	4.2	Not Detected	30	Not Detected
Ethanol	10	Not Detected	20	Not Detected
Ethyl Acetate	4.2	Not Detected	15	Not Detected
Ethyl Benzene	1.0	Not Detected	4.6	Not Detected
Ethyl-tert-butyl ether	4.2	Not Detected	18	Not Detected
Freon 11	1.0	Not Detected	5.9	Not Detected
Freon 12	1.0	4.6	5.2	22
Freon 113	1.0	Not Detected	8.0	Not Detected
Freon 114	1.0	Not Detected	7.3	Not Detected
Freon 134a	4.2	Not Detected	18	Not Detected
Heptane	1.0	Not Detected	4.3	Not Detected
Hexachlorobutadiene	4.2	Not Detected	45	Not Detected
Hexachloroethane	4.2	Not Detected	41	Not Detected
Hexane	1.0	150	3.7	530
Iodomethane	10	Not Detected	61	Not Detected
Isopropyl ether	4.2	Not Detected	18	Not Detected
m,p-Xylene	1.0	Not Detected	4.6	Not Detected
Methyl tert-butyl ether	4.2	Not Detected	15	Not Detected
Methylene Chloride	10	Not Detected	36	Not Detected
Naphthalene	2.1	Not Detected	11	Not Detected
o-Xylene	1.0	Not Detected	4.6	Not Detected
Propylbenzene	1.0	Not Detected	5.2	Not Detected
Propylene	4.2	Not Detected	7.2	Not Detected
Styrene	1.0	Not Detected	4.5	Not Detected
tert-Amyl methyl ether	4.2	Not Detected	18	Not Detected
tert-Butyl alcohol	4.2	Not Detected	13	Not Detected
Tetrachloroethene	1.0	18	7.1	120
Tetrahydrofuran	1.0	Not Detected	3.1	Not Detected
Toluene	1.0	Not Detected	4.0	Not Detected
TPH ref. to Gasoline (MW=100)	100	240	430	980
trans-1,2-Dichloroethene	1.0	Not Detected	4.2	Not Detected
trans-1,3-Dichloropropene	1.0	Not Detected	4.8	Not Detected
Trichloroethene	1.0	Not Detected	5.6	Not Detected
Vinyl Acetate	4.2	Not Detected	15	Not Detected
Vinyl Bromide	4.2	Not Detected	18	Not Detected
Vinyl Chloride	1.0	Not Detected	2.7	Not Detected

Container Type: 1 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: SG-VW63B-02

Lab ID#: 2108390-10A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p082017**	**Date of Collection:**	**8/16/21 3:18:00 PM**
Dil. Factor:	**2.10**	**Date of Analysis:**	**8/20/21 08:24 PM**

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	109	70-130
4-Bromofluorobenzene	106	70-130

US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/20AUG21.b/p082017.d
Lab Smp Id: 2108390-10A
Inj Date : 20-AUG-2021 20:24
Operator : mjb Inst ID: msdp.i
Smp Info : 200ml 1L1646
Misc Info : 6.0 Hg->10 psi
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/20AUG21.b/p21q0519a.m
Meth Date : 20-Aug-2021 12:59 p5fl Quant Type: ISTD
Cal Date : 19-MAY-2021 19:45 Cal File: p051915.d
Als bottle: 10
Dil Factor: 2.10000
Integrator: HP RTE Compound Sublist: AEC25677.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE		(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 90 Bromochloromethane							CAS #: 74-97-5	
5.785	5.785 (1.000)	130	107394	25.0000			80.00- 120.00	100.00
5.785	5.785 (1.000)	128	82665				48.23- 108.23	76.97
5.785	5.778 (1.000)	49	261289				150.57- 210.57	243.30
* 108 1,4-Difluorobenzene							CAS #: 540-36-3	
6.666	6.659 (1.000)	114	384059	25.0000			80.00- 120.00	100.00
6.666	6.659 (1.000)	88	54916				0.00- 45.71	14.30
* 153 Chlorobenzene-d5							CAS #: 3114-55-4	
9.460	9.460 (1.000)	117	393947	25.0000			80.00- 120.00	100.00
9.460	9.460 (1.000)	82	198846				23.78- 83.78	50.48
$ 104 1,2-Dichloroethane-d4							CAS #: 17060-07-0	
6.315	6.315 (1.092)	65	161779	27.2962	27.296		80.00- 120.00	100.00
6.315	6.315 (1.092)	67	74159				27.21- 87.21	45.84
$ 134 Toluene-d8							CAS #: 2037-26-5	
7.891	7.891 (1.184)	98	418325	25.0834	25.083		80.00- 120.00	100.00
7.891	7.891 (1.184)	70	45818				0.00- 40.44	10.95

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 134 Toluene-d8 (continued)							
7.891	7.891 (1.184)	100	270104			34.95- 94.95	64.57
$ 170 4-Bromofluorobenzene					CAS #: 460-00-4		
10.921	10.921 (1.154)	174	267040	26.3975	26.397	80.00- 120.00	100.00
10.914	10.914 (1.154)	95	307433			95.92- 155.92	115.13
10.921	10.921 (1.154)	176	252648			66.89- 126.89	94.61
8 Freon 12					CAS #: 75-71-8		
1.731	1.717 (0.299)	85	20936	2.17357	4.564	80.00- 120.00	100.00
1.731	1.717 (0.299)	87	6891			2.37- 62.37	32.92
67 Hexane					CAS #: 110-54-3		
4.697	4.697 (0.812)	57	754841	71.3491	149.83	80.00- 120.00	100.00
4.697	4.697 (0.812)	43	609720			37.52- 97.52	80.77
4.697	4.697 (0.812)	86	74923			0.00- 41.48	9.93
92 Chloroform					CAS #: 67-66-3		
5.843	5.843 (1.010)	83	141202	15.1113	31.734	80.00- 120.00	100.00
5.843	5.843 (1.010)	85	91192			34.70- 94.70	64.58
122 Bromodichloromethane					CAS #: 75-27-4		
7.318	7.318 (1.098)	83	7637	0.80091	1.682	80.00- 120.00	100.00
7.318	7.318 (1.098)	85	6032			35.24- 95.24	78.98
142 Tetrachloroethene					CAS #: 127-18-4		
8.471	8.464 (0.895)	166	79141	8.81463	18.511	80.00- 120.00	100.00
8.464	8.464 (0.895)	129	61915			47.84- 107.84	78.23
8.464	8.464 (0.895)	131	58933			45.29- 105.29	74.47

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p082017.d
Lab Smp Id: 2108390-10A
Analysis Type: VOA
Quant Type: ISTD
Operator: mjb
Method File: /chem/msdp.i/20AUG21.b/p21q0519a.m
Misc Info: 6.0 Hg->10 psi

Calibration Date: 20-AUG-2021
Calibration Time: 11:13
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	109375	65625	153125	107394	-1.81
108 1,4-Difluorobenze	406799	244079	569519	384059	-5.59
153 Chlorobenzene-d5	400841	240505	561177	393947	-1.72

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.79	5.46	6.12	5.79	0.00
108 1,4-Difluorobenze	6.66	6.33	6.99	6.67	0.11
153 Chlorobenzene-d5	9.46	9.13	9.79	9.46	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 24-Aug-2021 11:17

US32TAR1

RECOVERY REPORT

Client Name: Client SDG: 20AUG21
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 2108390-10A
Level: LOW Operator: mjb
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT20_new.spk Quant Type: ISTD
Sublist File: AEC25677.sub
Method File: /chem/msdp.i/20AUG21.b/p21q0519a.m
Misc Info: 6.0 Hg->10 psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 104 1,2-Dichloroethan	25.000	27.296	109.18	70-130
$ 134 Toluene-d8	25.000	25.083	100.33	70-130
$ 170 4-Bromofluorobenz	25.000	26.397	105.59	70-130

Data File: /chem/msdp.i/20AUG21.b/p082017.d

Page 1

Date : 20-AUG-2021 20:24

Client ID:

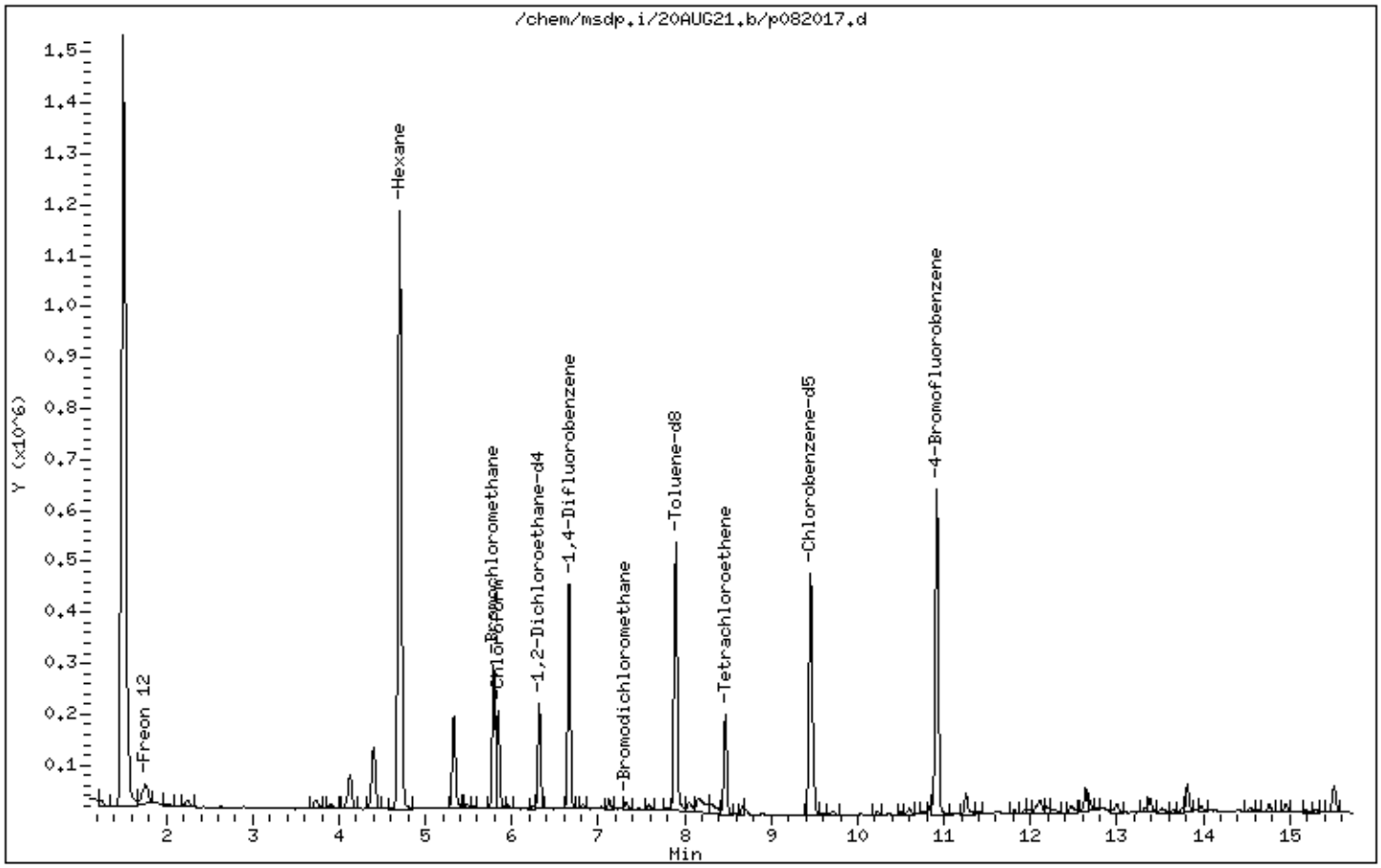
Instrument: msdp.i

Sample Info: 200ml 1L1646

Operator: mjb

Column phase: RTX-624

Column diameter: 0.25



Data File: /chem/msdp.i/20AUG21.b/p082017.d

Date : 20-AUG-2021 20:24

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1L1646

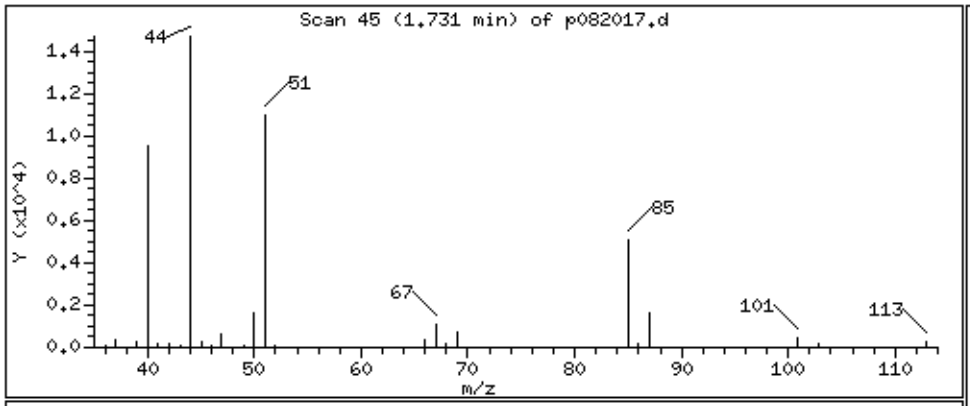
Operator: mjb

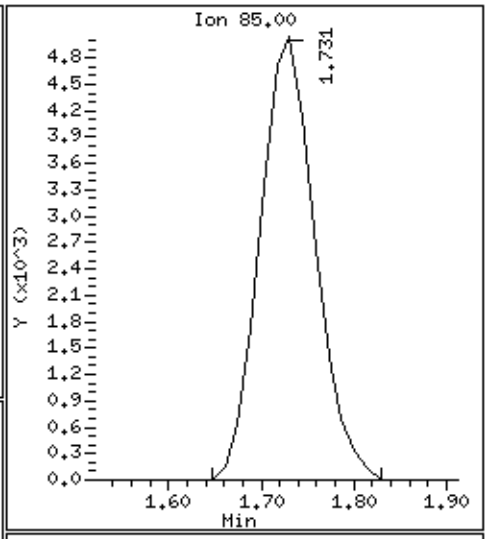
Column phase: RTX-624

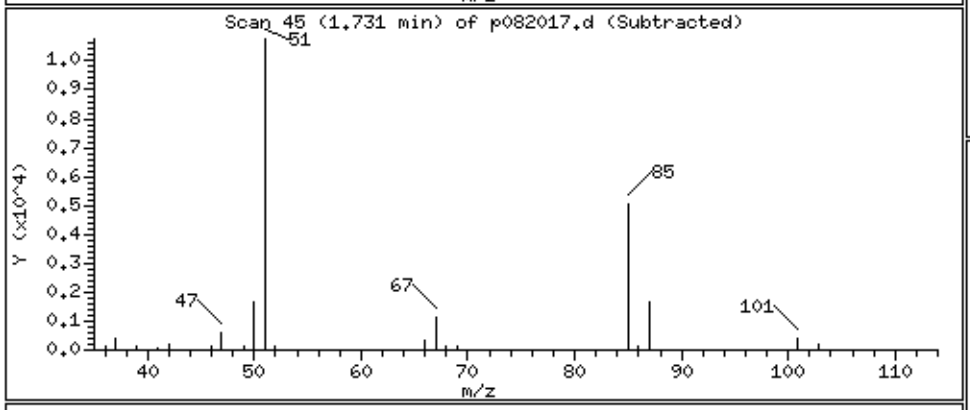
Column diameter: 0.25

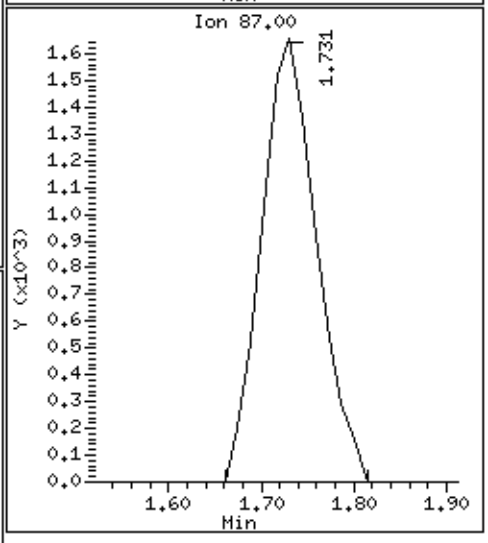
8 Freon 12

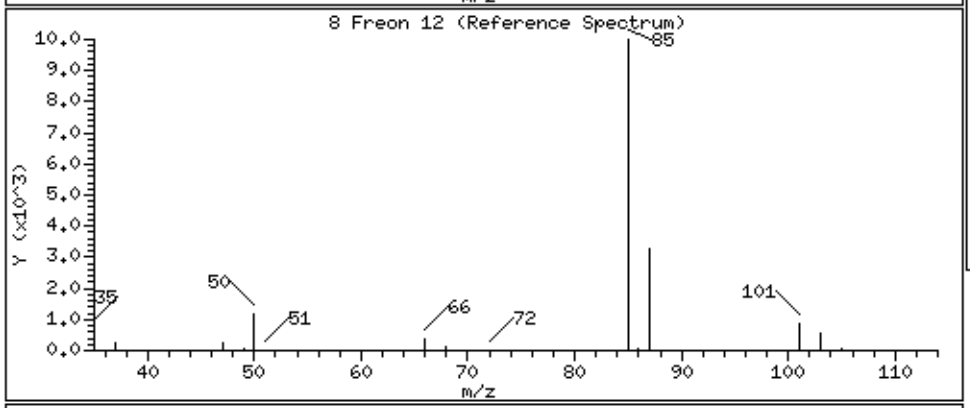
Concentration: 4.564 PPBV

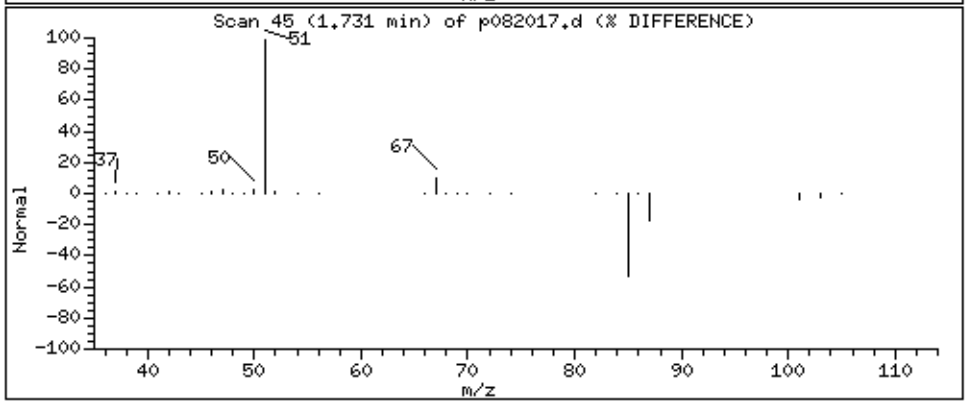












Data File: /chem/msdp.i/20AUG21.b/p082017.d

Date : 20-AUG-2021 20:24

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1L1646

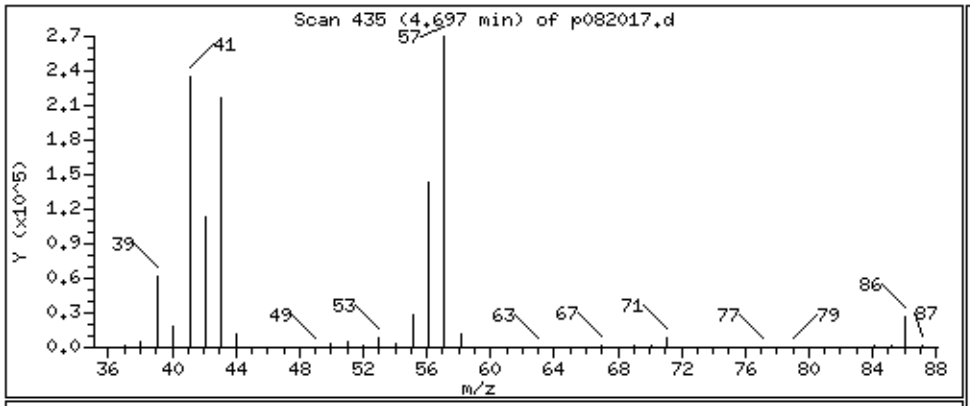
Operator: mjb

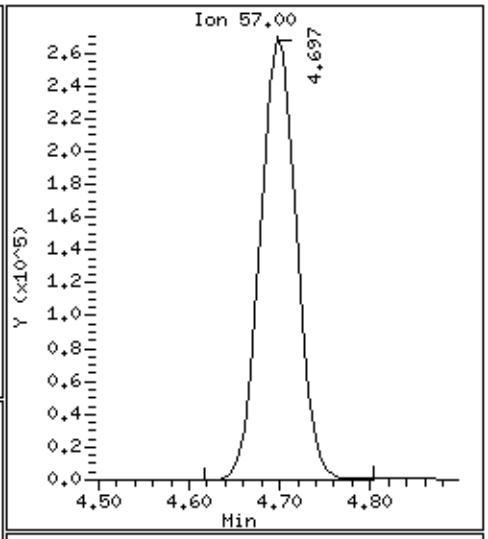
Column phase: RTX-624

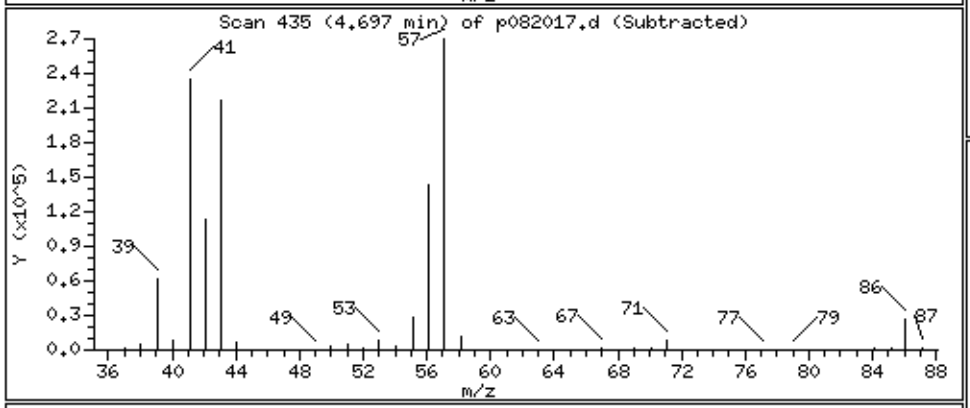
Column diameter: 0.25

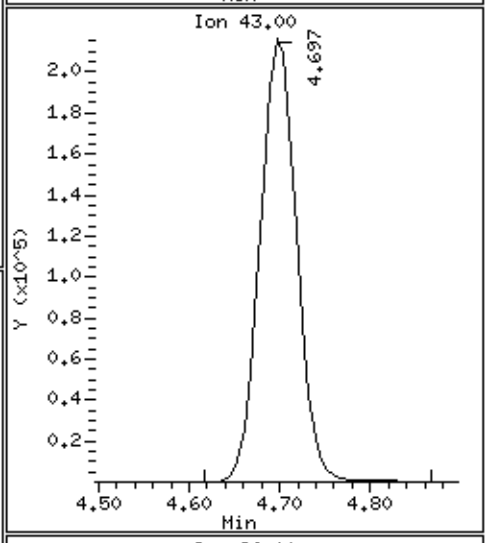
67 Hexane

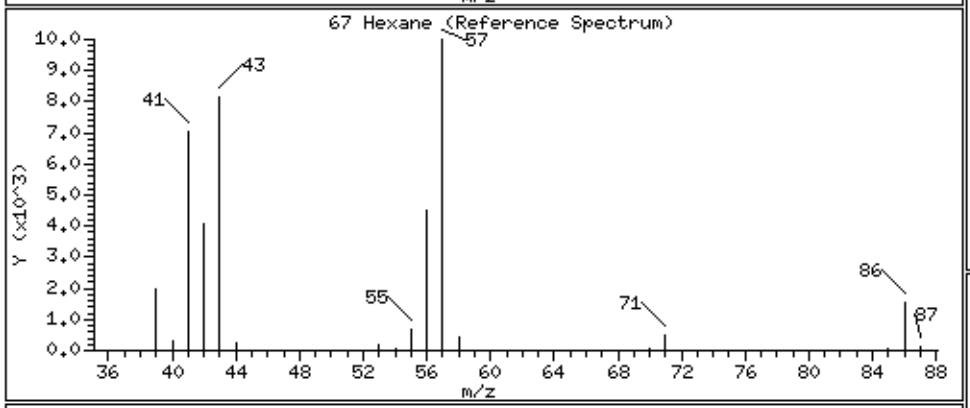
Concentration: 149.83 PPBV

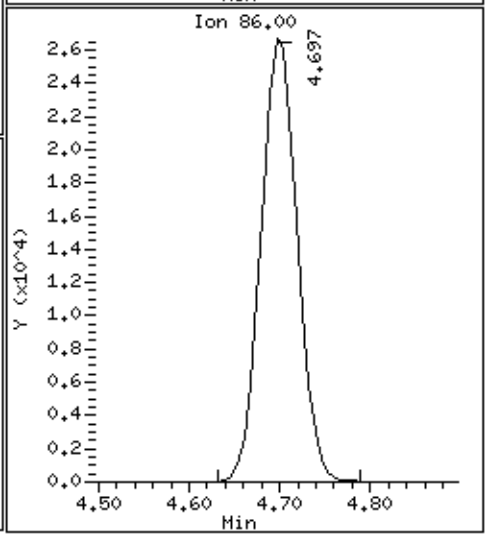


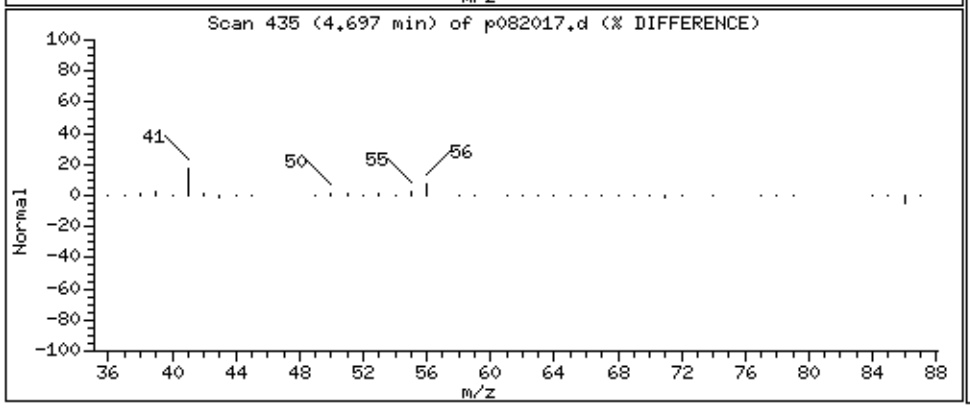












Data File: /chem/msdp.i/20AUG21.b/p082017.d

Date : 20-AUG-2021 20:24

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1L1646

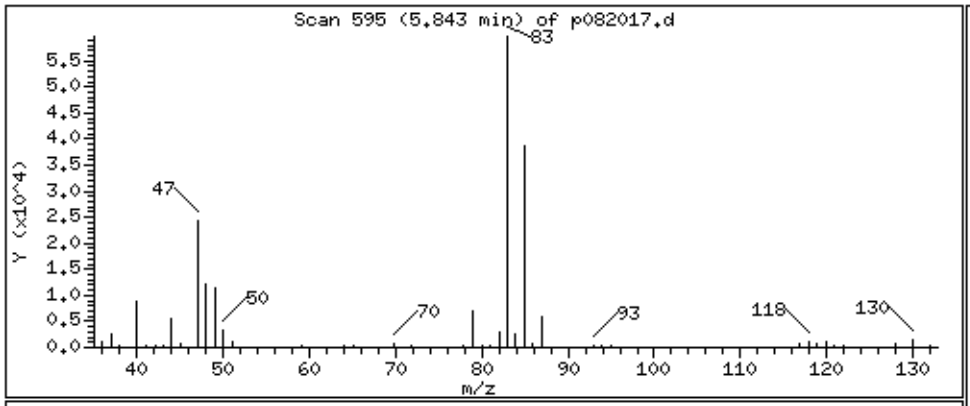
Operator: mjb

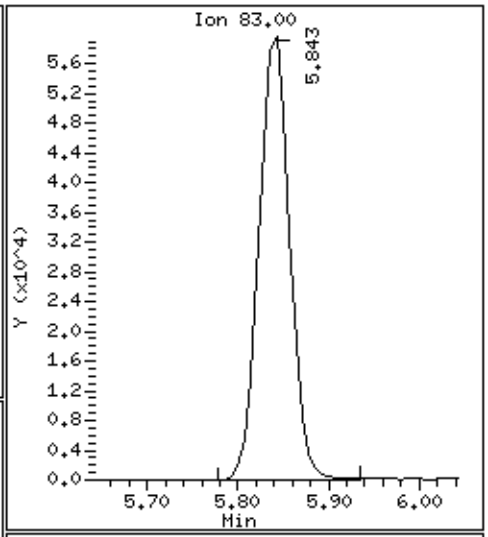
Column phase: RTX-624

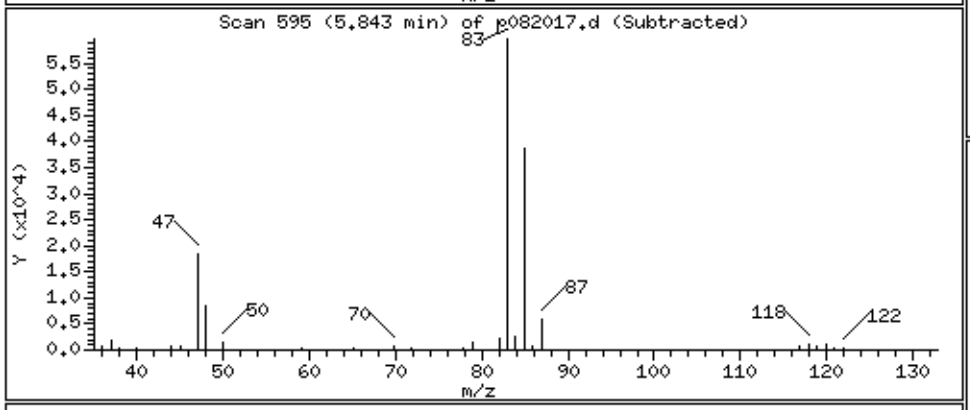
Column diameter: 0.25

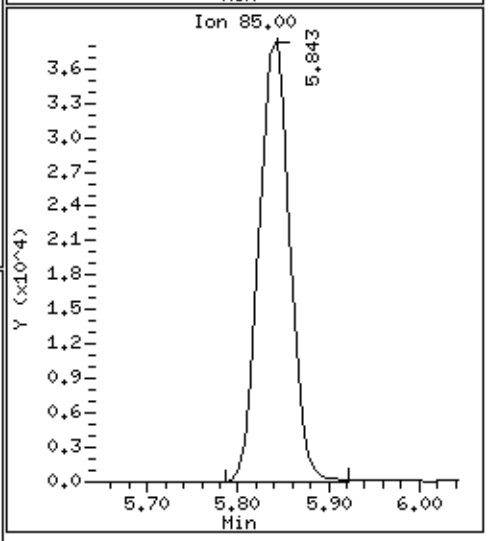
92 Chloroform

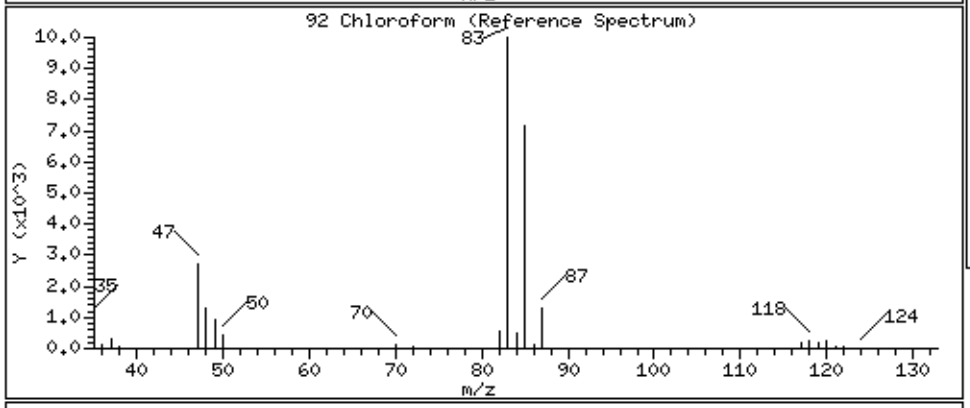
Concentration: 31.734 PPBV

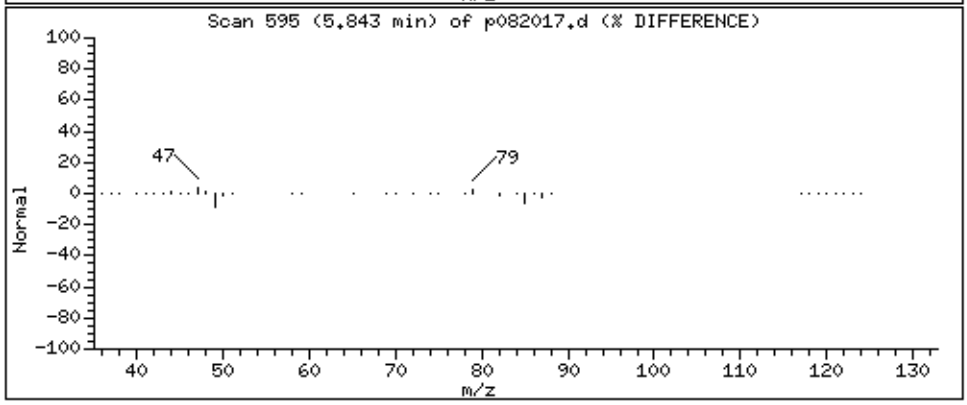












Data File: /chem/msdp.i/20AUG21.b/p082017.d

Date : 20-AUG-2021 20:24

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1L1646

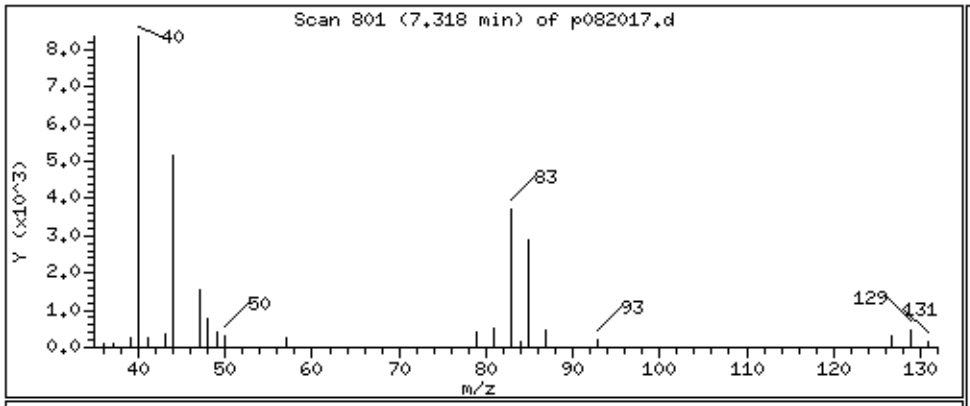
Operator: mjb

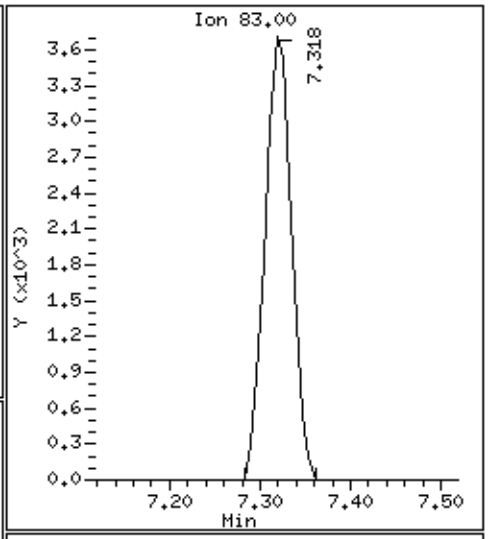
Column phase: RTX-624

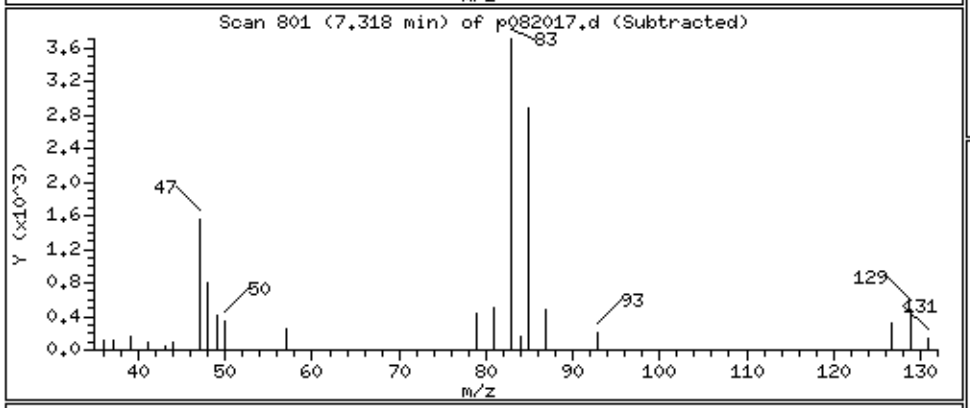
Column diameter: 0.25

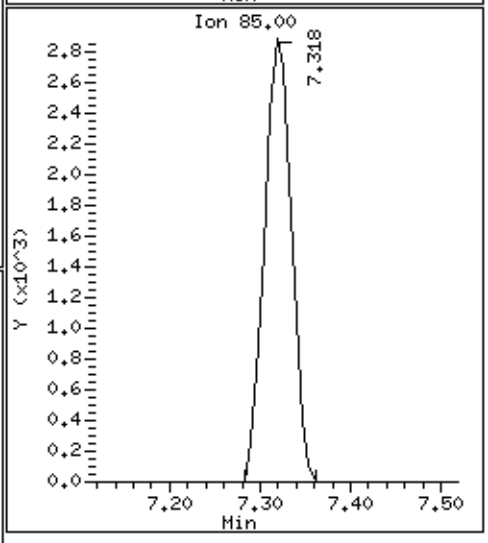
122 Bromodichloromethane

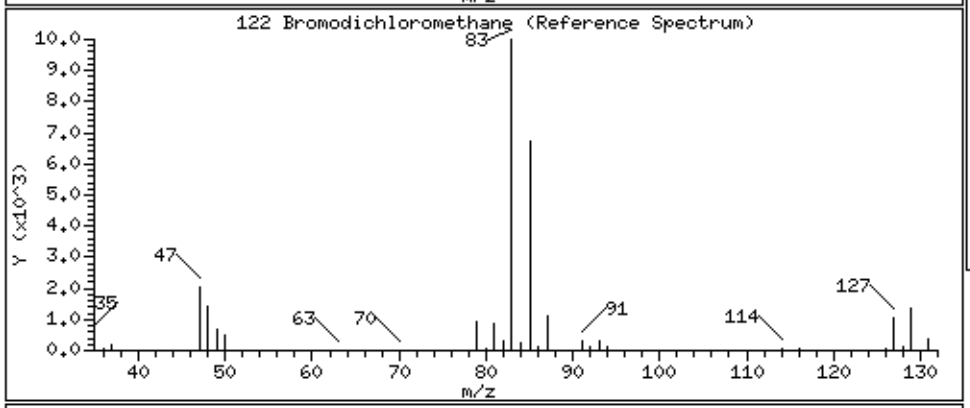
Concentration: 1.682 PPBV

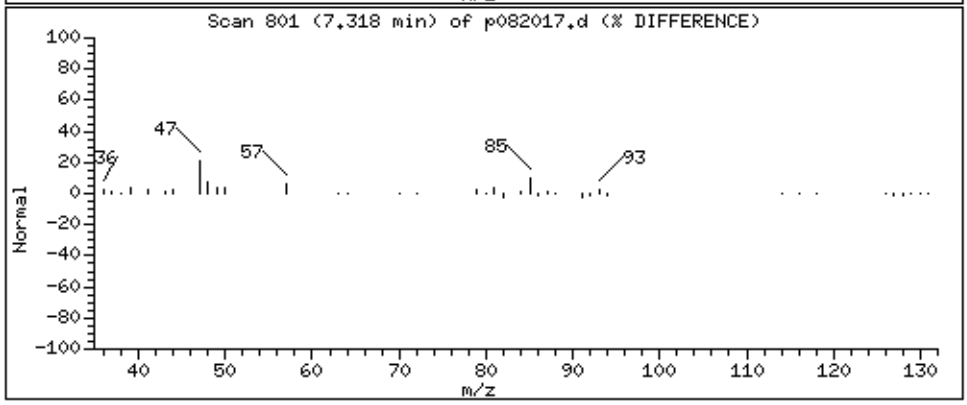












Data File: /chem/msdp.i/20AUG21.b/p082017.d

Date : 20-AUG-2021 20:24

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1L1646

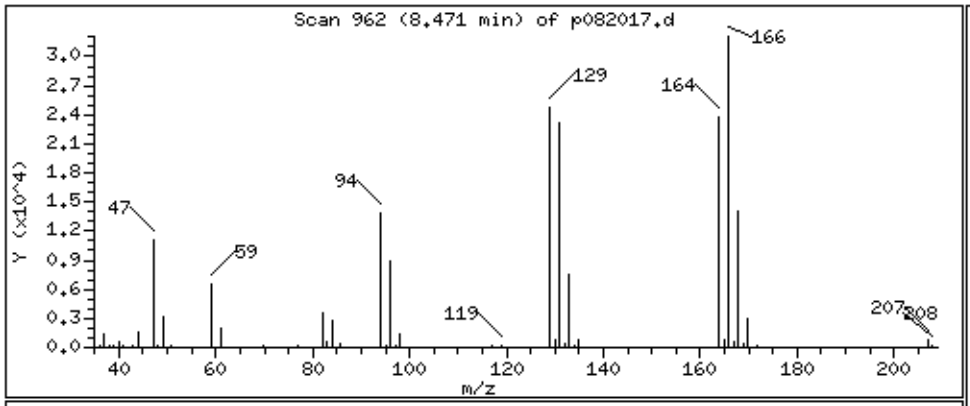
Operator: mjb

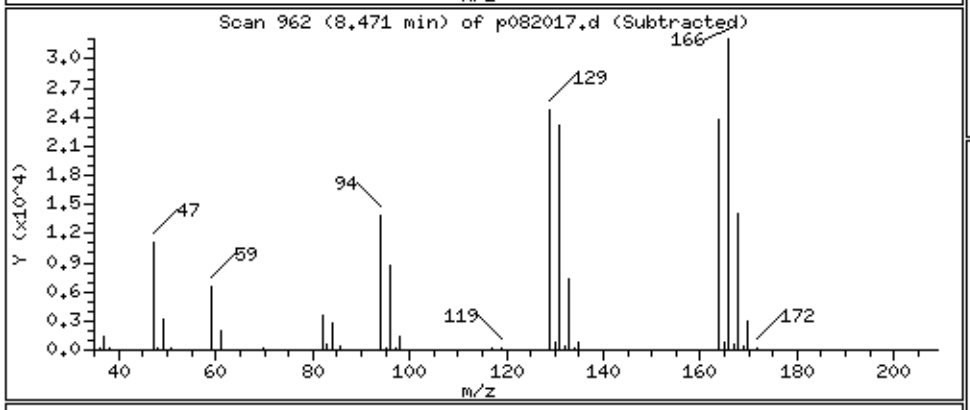
Column phase: RTX-624

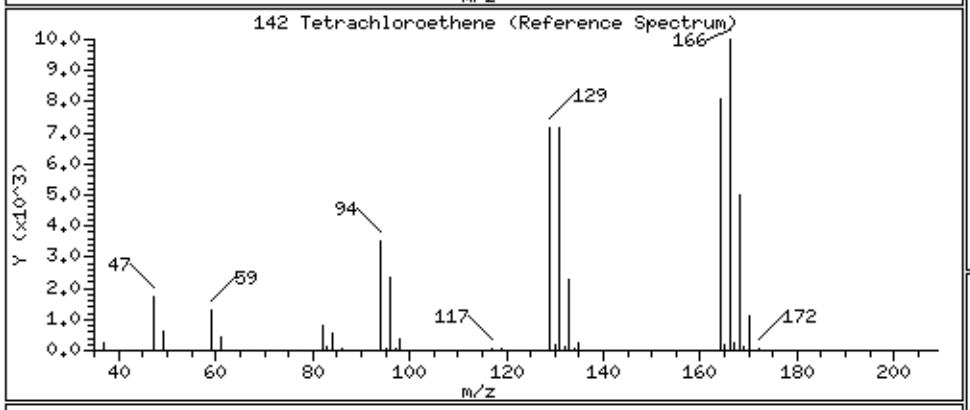
Column diameter: 0.25

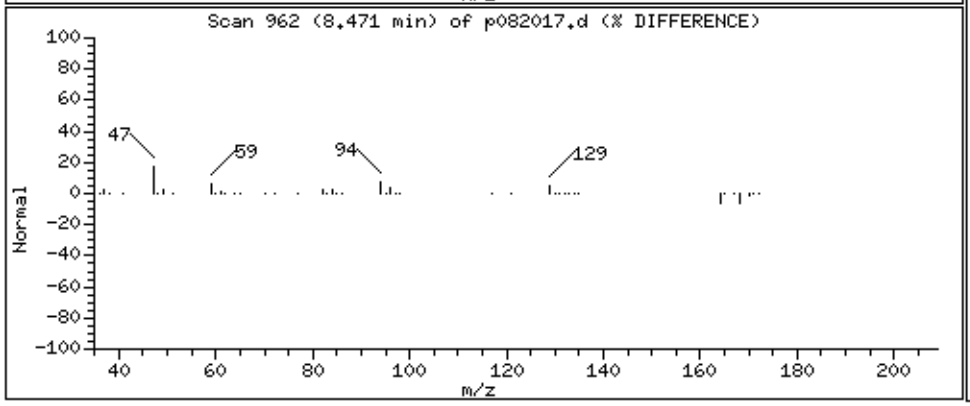
142 Tetrachloroethene

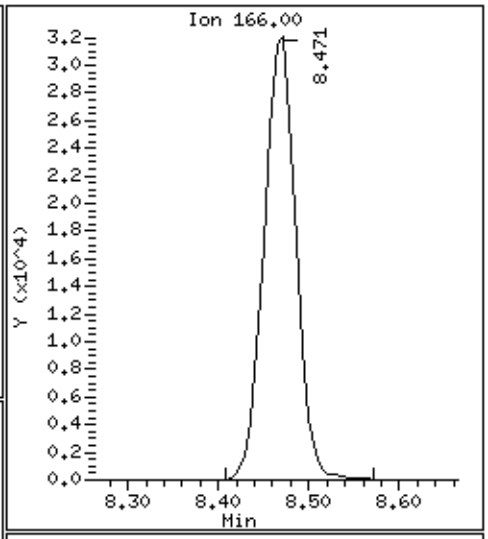
Concentration: 18.511 PPBV

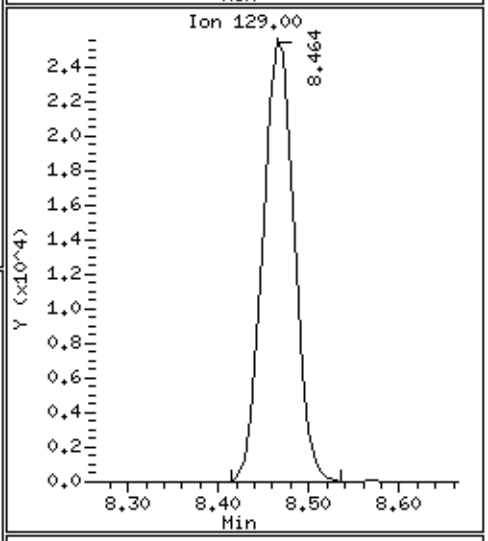


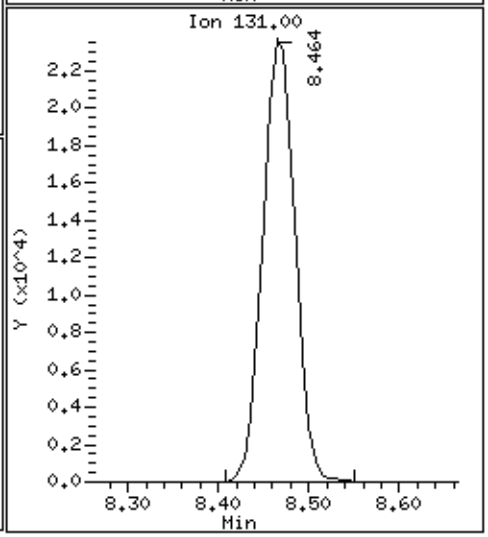












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Client Sample ID: SG-VW63B-03

Lab ID#: 2108390-11A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p082020**	**Date of Collection:**	**8/16/21 3:18:00 PM**
Dil. Factor:	**2.10**	**Date of Analysis:**	**8/20/21 11:45 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1,2-Tetrachloroethane	4.2	Not Detected	29	Not Detected
1,1,1-Trichloroethane	1.0	Not Detected	5.7	Not Detected
1,1,2,2-Tetrachloroethane	1.0	Not Detected	7.2	Not Detected
1,1,2-Trichloroethane	1.0	Not Detected	5.7	Not Detected
1,1-Dichloroethane	1.0	Not Detected	4.2	Not Detected
1,1-Dichloroethene	1.0	Not Detected	4.2	Not Detected
1,1-Difluoroethane	4.2	Not Detected	11	Not Detected
1,2,3-Trichloropropane	4.2	Not Detected	25	Not Detected
1,2,4-Trichlorobenzene	4.2	Not Detected	31	Not Detected
1,2,4-Trimethylbenzene	1.0	Not Detected	5.2	Not Detected
1,2-Dibromo-3-chloropropane	4.2	Not Detected	40	Not Detected
1,2-Dibromoethane (EDB)	1.0	Not Detected	8.1	Not Detected
1,2-Dichlorobenzene	1.0	Not Detected	6.3	Not Detected
1,2-Dichloroethane	1.0	Not Detected	4.2	Not Detected
1,2-Dichloropropane	1.0	Not Detected	4.8	Not Detected
1,3,5-Trimethylbenzene	1.0	Not Detected	5.2	Not Detected
1,3-Butadiene	1.0	Not Detected	2.3	Not Detected
1,3-Dichlorobenzene	1.0	Not Detected	6.3	Not Detected
1,4-Dichlorobenzene	1.0	Not Detected	6.3	Not Detected
1,4-Dioxane	4.2	Not Detected	15	Not Detected
2,2,4-Trimethylpentane	1.0	Not Detected	4.9	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.2	Not Detected	12	Not Detected
2-Hexanone	4.2	Not Detected	17	Not Detected
2-Propanol	4.2	Not Detected	10	Not Detected
3-Chloropropene	4.2	Not Detected	13	Not Detected
4-Ethyltoluene	1.0	Not Detected	5.2	Not Detected
4-Methyl-2-pentanone	1.0	Not Detected	4.3	Not Detected
Acetone	10	Not Detected	25	Not Detected
Acrolein	4.2	Not Detected	9.6	Not Detected
Acrylonitrile	4.2	Not Detected	9.1	Not Detected
alpha-Chlorotoluene	1.0	Not Detected	5.4	Not Detected
Benzene	1.0	Not Detected	3.4	Not Detected
Bromodichloromethane	1.0	1.8	7.0	12
Bromoform	1.0	Not Detected	11	Not Detected
Bromomethane	10	Not Detected	41	Not Detected
Carbon Disulfide	4.2	Not Detected	13	Not Detected
Carbon Tetrachloride	1.0	Not Detected	6.6	Not Detected
Chlorobenzene	1.0	Not Detected	4.8	Not Detected
Chloroethane	4.2	Not Detected	11	Not Detected
Chloroform	1.0	31	5.1	150
Chloromethane	10	Not Detected	22	Not Detected
cis-1,2-Dichloroethene	1.0	Not Detected	4.2	Not Detected

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Client Sample ID: SG-VW63B-03

Lab ID#: 2108390-11A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p082020**	**Date of Collection:**	**8/16/21 3:18:00 PM**
Dil. Factor:	**2.10**	**Date of Analysis:**	**8/20/21 11:45 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,3-Dichloropropene	1.0	Not Detected	4.8	Not Detected
Cumene	1.0	Not Detected	5.2	Not Detected
Cyclohexane	1.0	Not Detected	3.6	Not Detected
Dibromochloromethane	1.0	Not Detected	8.9	Not Detected
Dibromomethane	4.2	Not Detected	30	Not Detected
Ethanol	10	Not Detected	20	Not Detected
Ethyl Acetate	4.2	Not Detected	15	Not Detected
Ethyl Benzene	1.0	Not Detected	4.6	Not Detected
Ethyl-tert-butyl ether	4.2	Not Detected	18	Not Detected
Freon 11	1.0	Not Detected	5.9	Not Detected
Freon 12	1.0	4.3	5.2	21
Freon 113	1.0	Not Detected	8.0	Not Detected
Freon 114	1.0	Not Detected	7.3	Not Detected
Freon 134a	4.2	Not Detected	18	Not Detected
Heptane	1.0	Not Detected	4.3	Not Detected
Hexachlorobutadiene	4.2	Not Detected	45	Not Detected
Hexachloroethane	4.2	Not Detected	41	Not Detected
Hexane	1.0	56	3.7	200
Iodomethane	10	Not Detected	61	Not Detected
Isopropyl ether	4.2	Not Detected	18	Not Detected
m,p-Xylene	1.0	Not Detected	4.6	Not Detected
Methyl tert-butyl ether	4.2	Not Detected	15	Not Detected
Methylene Chloride	10	Not Detected	36	Not Detected
Naphthalene	2.1	Not Detected	11	Not Detected
o-Xylene	1.0	Not Detected	4.6	Not Detected
Propylbenzene	1.0	Not Detected	5.2	Not Detected
Propylene	4.2	Not Detected	7.2	Not Detected
Styrene	1.0	Not Detected	4.5	Not Detected
tert-Amyl methyl ether	4.2	Not Detected	18	Not Detected
tert-Butyl alcohol	4.2	Not Detected	13	Not Detected
Tetrachloroethene	1.0	18	7.1	120
Tetrahydrofuran	1.0	Not Detected	3.1	Not Detected
Toluene	1.0	Not Detected	4.0	Not Detected
TPH ref. to Gasoline (MW=100)	100	110	430	450
trans-1,2-Dichloroethene	1.0	Not Detected	4.2	Not Detected
trans-1,3-Dichloropropene	1.0	Not Detected	4.8	Not Detected
Trichloroethene	1.0	Not Detected	5.6	Not Detected
Vinyl Acetate	4.2	Not Detected	15	Not Detected
Vinyl Bromide	4.2	Not Detected	18	Not Detected
Vinyl Chloride	1.0	Not Detected	2.7	Not Detected

Container Type: 1 Liter Summa Canister

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Client Sample ID: SG-VW63B-03

Lab ID#: 2108390-11A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p082020**	**Date of Collection:**	**8/16/21 3:18:00 PM**
Dil. Factor:	**2.10**	**Date of Analysis:**	**8/20/21 11:45 PM**

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	110	70-130
4-Bromofluorobenzene	103	70-130

US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/20AUG21.b/p082020.d
Lab Smp Id: 2108390-11A
Inj Date : 20-AUG-2021 23:45
Operator : kk Inst ID: msdp.i
Smp Info : 200ml 1L1754
Misc Info : 6.0 Hg->10 psi
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/20AUG21.b/p21q0519a.m
Meth Date : 20-Aug-2021 12:59 p5fl Quant Type: ISTD
Cal Date : 19-MAY-2021 19:45 Cal File: p051915.d
Als bottle: 2
Dil Factor: 2.10000
Integrator: HP RTE Compound Sublist: AEC25677.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

	RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
*	90 Bromochloromethane					CAS #: 74-97-5		
	5.785	5.785 (1.000)	130	106163	25.0000		80.00- 120.00	100.00
	5.785	5.785 (1.000)	128	81223			48.23- 108.23	76.51
	5.785	5.778 (1.000)	49	255680			150.57- 210.57	240.84
*	108 1,4-Difluorobenzene					CAS #: 540-36-3		
	6.659	6.659 (1.000)	114	380167	25.0000		80.00- 120.00	100.00
	6.659	6.659 (1.000)	88	55630			0.00- 45.71	14.63
*	153 Chlorobenzene-d5					CAS #: 3114-55-4		
	9.460	9.460 (1.000)	117	392144	25.0000		80.00- 120.00	100.00
	9.460	9.460 (1.000)	82	201824			23.78- 83.78	51.47
$	104 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
	6.315	6.315 (1.092)	65	160460	27.3876	27.388	80.00- 120.00	100.00
	6.315	6.315 (1.092)	67	74958			27.21- 87.21	46.71
$	134 Toluene-d8					CAS #: 2037-26-5		
	7.891	7.891 (1.185)	98	419695	25.4232	25.423	80.00- 120.00	100.00
	7.891	7.891 (1.185)	70	45662			0.00- 40.44	10.88

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 134 Toluene-d8 (continued)							
7.891	7.891 (1.185)	100	267501			34.95- 94.95	63.74
$ 170 4-Bromofluorobenzene					CAS #: 460-00-4		
10.921	10.921 (1.154)	174	259676	25.7876	25.788	80.00- 120.00	100.00
10.914	10.914 (1.154)	95	302891			95.92- 155.92	116.64
10.921	10.921 (1.154)	176	246629			66.89- 126.89	94.98
8 Freon 12					CAS #: 75-71-8		
1.730	1.717 (0.299)	85	19494	2.04733	4.299	80.00- 120.00	100.00
1.730	1.717 (0.299)	87	6261			2.37- 62.37	32.12
67 Hexane					CAS #: 110-54-3		
4.696	4.697 (0.812)	57	276926	26.4791	55.606	80.00- 120.00	100.00
4.696	4.697 (0.812)	43	223487			37.52- 97.52	80.70
4.696	4.697 (0.812)	86	26831			0.00- 41.48	9.69
92 Chloroform					CAS #: 67-66-3		
5.842	5.843 (1.010)	83	135525	14.6720	30.811	80.00- 120.00	100.00
5.842	5.843 (1.010)	85	89045			34.70- 94.70	65.70
122 Bromodichloromethane					CAS #: 75-27-4		
7.318	7.318 (1.099)	83	8220	0.87088	1.829	80.00- 120.00	100.00
7.318	7.318 (1.099)	85	5363			35.24- 95.24	65.24
142 Tetrachloroethene					CAS #: 127-18-4		
8.464	8.464 (0.895)	166	75379	8.43422	17.712	80.00- 120.00	100.00
8.464	8.464 (0.895)	129	58704			47.84- 107.84	77.88
8.464	8.464 (0.895)	131	57883			45.29- 105.29	76.79

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p082020.d
Lab Smp Id: 2108390-11A
Analysis Type: VOA
Quant Type: ISTD
Operator: kk
Method File: /chem/msdp.i/20AUG21.b/p21q0519a.m
Misc Info: 6.0 Hg->10 psi

Calibration Date: 20-AUG-2021
Calibration Time: 11:13
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	109375	65625	153125	106163	-2.94
108 1,4-Difluorobenze	406799	244079	569519	380167	-6.55
153 Chlorobenzene-d5	400841	240505	561177	392144	-2.17

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.79	5.46	6.12	5.79	-0.00
108 1,4-Difluorobenze	6.66	6.33	6.99	6.66	-0.00
153 Chlorobenzene-d5	9.46	9.13	9.79	9.46	-0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 24-Aug-2021 11:22

US32TAR1

RECOVERY REPORT

Client Name: Client SDG: 20AUG21
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 2108390-11A
Level: LOW Operator: kk
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT20_new.spk Quant Type: ISTD
Sublist File: AEC25677.sub
Method File: /chem/msdp.i/20AUG21.b/p21q0519a.m
Misc Info: 6.0 Hg->10 psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 104 1,2-Dichloroethan	25.000	27.388	109.55	70-130
$ 134 Toluene-d8	25.000	25.423	101.69	70-130
$ 170 4-Bromofluorobenz	25.000	25.788	103.15	70-130

Data File: /chem/msdp.i/20AUG21.b/p082020.d

Date : 20-AUG-2021 23:45

Client ID:

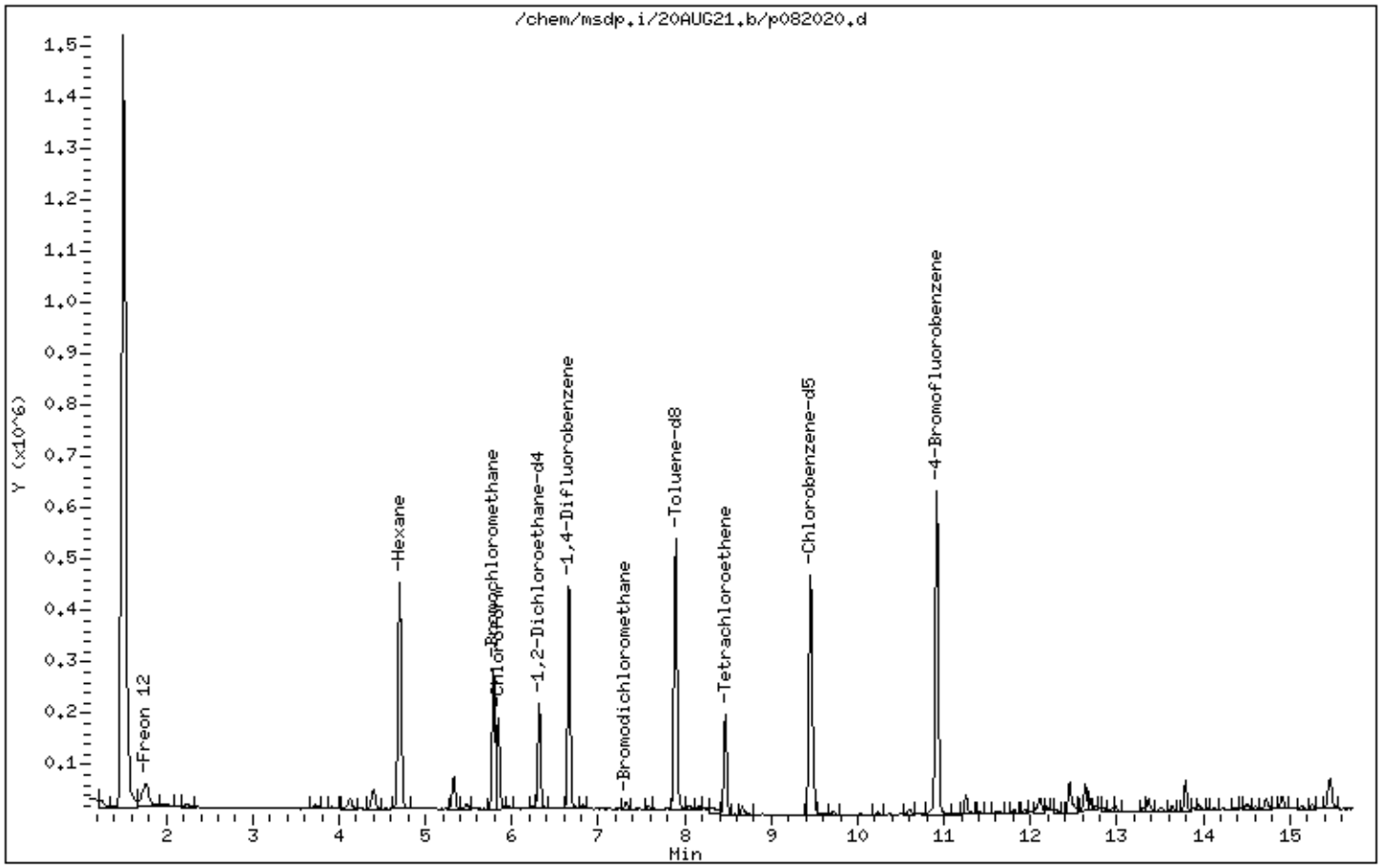
Instrument: msdp.i

Sample Info: 200ml 1L1754

Operator: kk

Column phase: RTX-624

Column diameter: 0.25



Data File: /chem/msdp.i/20AUG21.b/p082020.d

Date : 20-AUG-2021 23:45

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1L1754

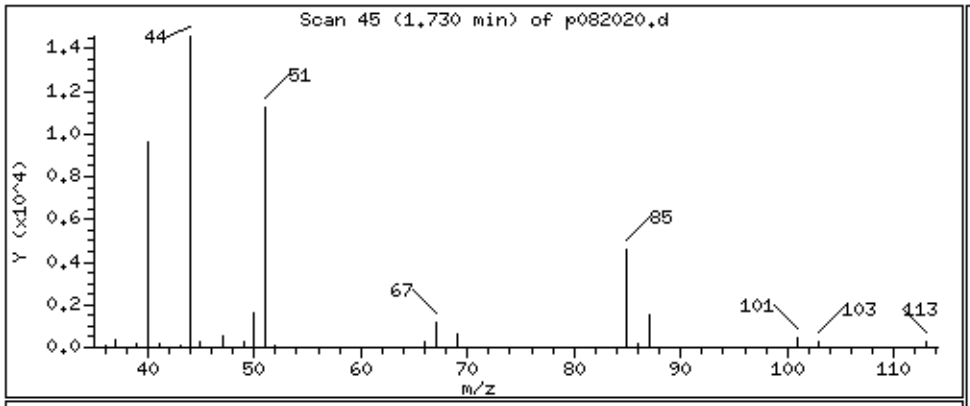
Operator: kk

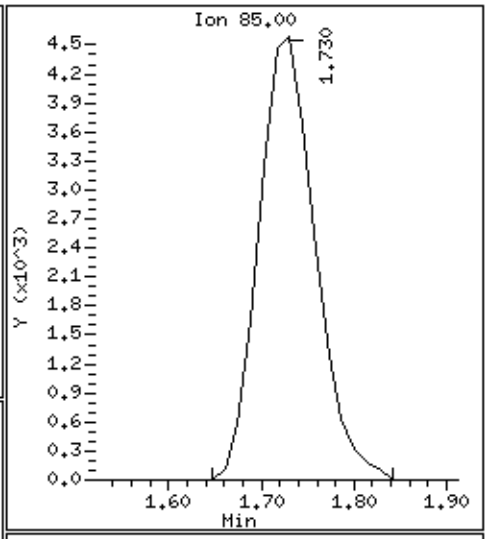
Column phase: RTX-624

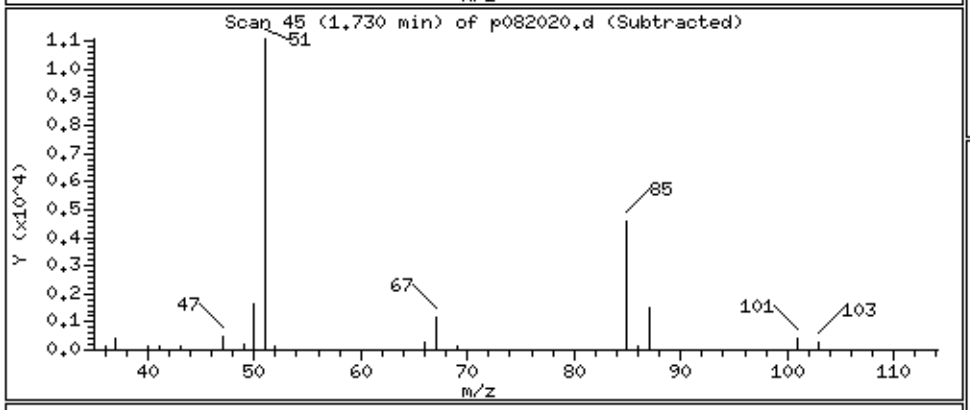
Column diameter: 0.25

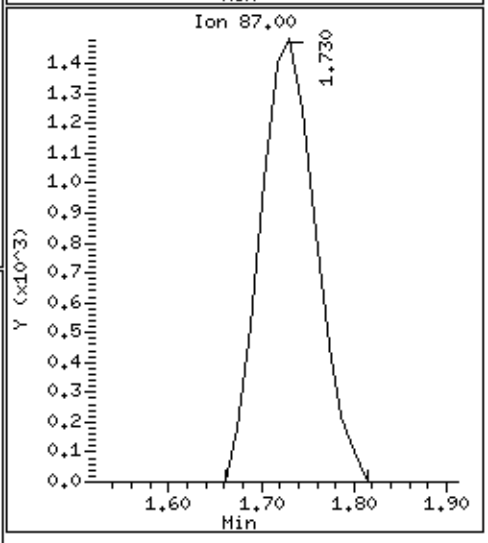
8 Freon 12

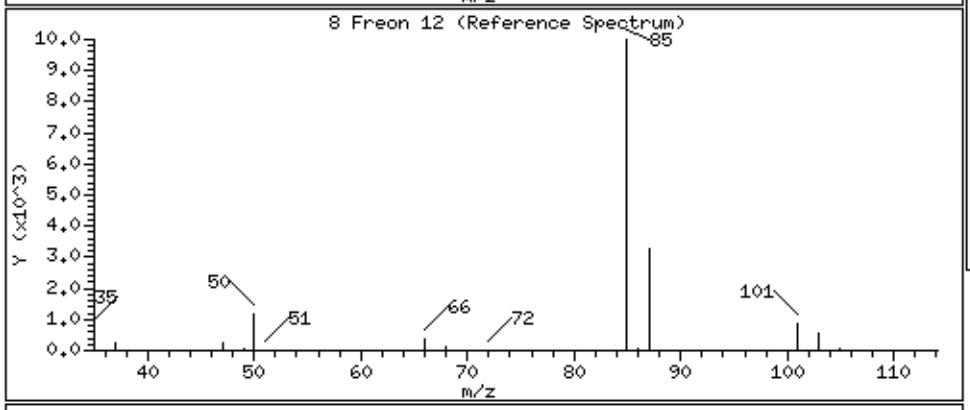
Concentration: 4.299 PPBV

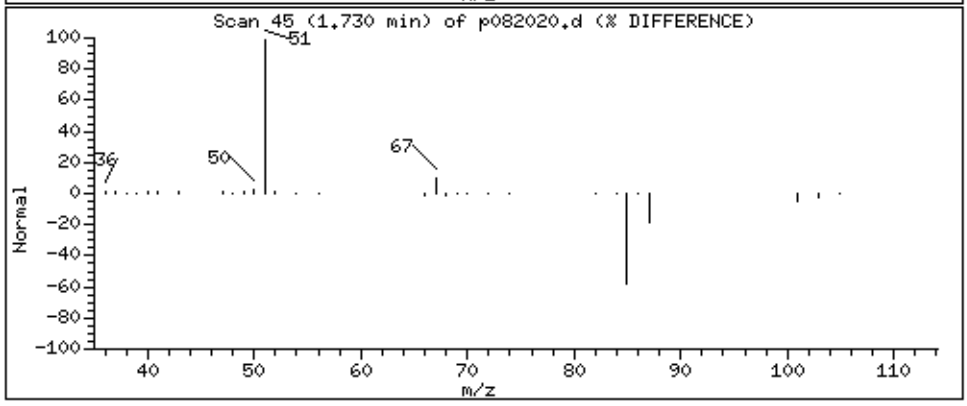












Data File: /chem/msdp.i/20AUG21.b/p082020.d

Date : 20-AUG-2021 23:45

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1L1754

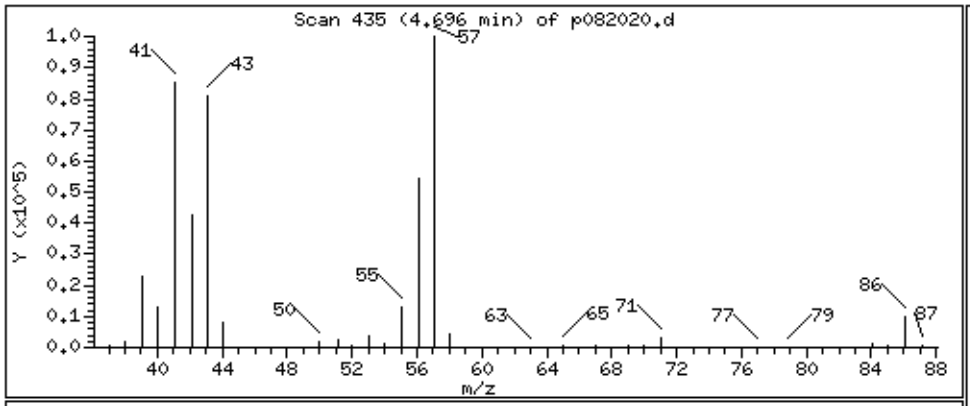
Operator: kk

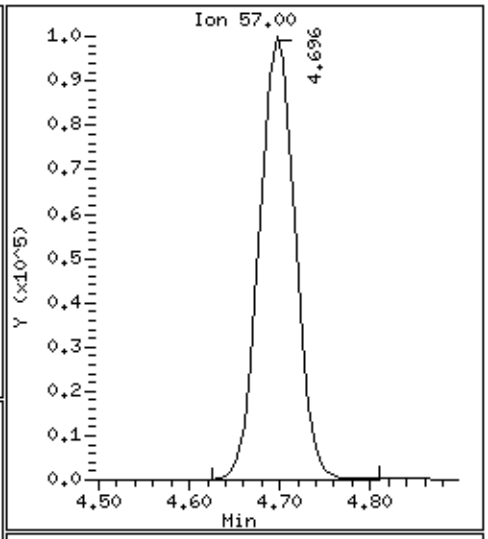
Column phase: RTX-624

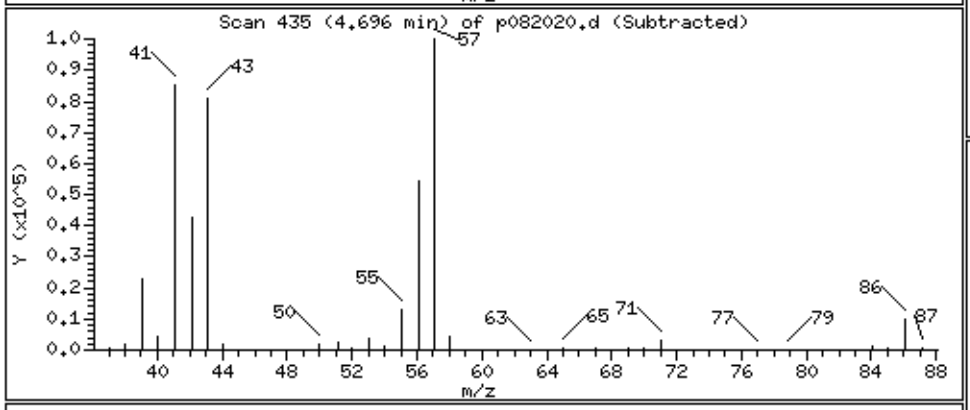
Column diameter: 0.25

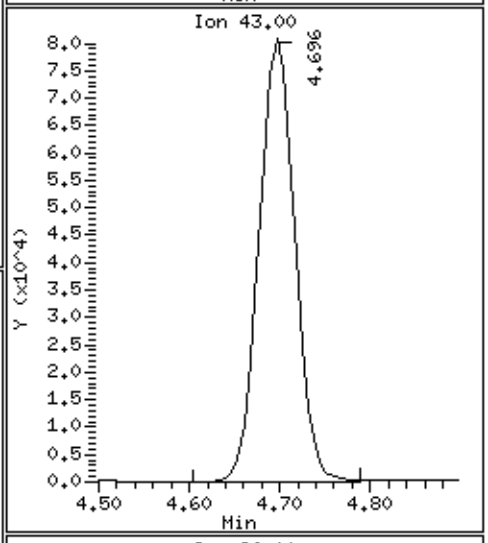
67 Hexane

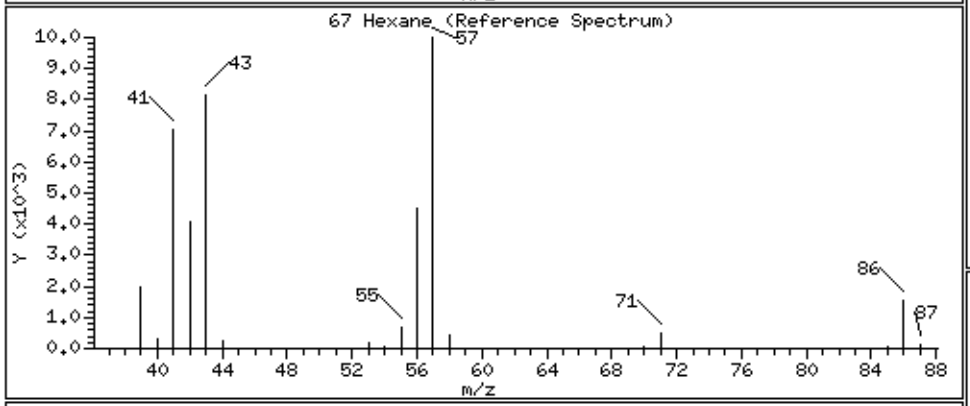
Concentration: 55.606 PPBV

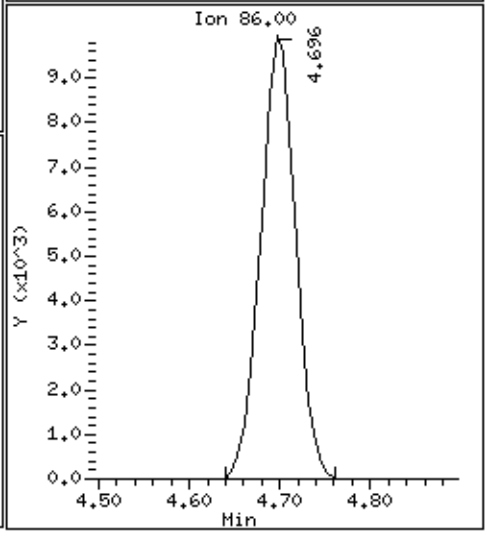


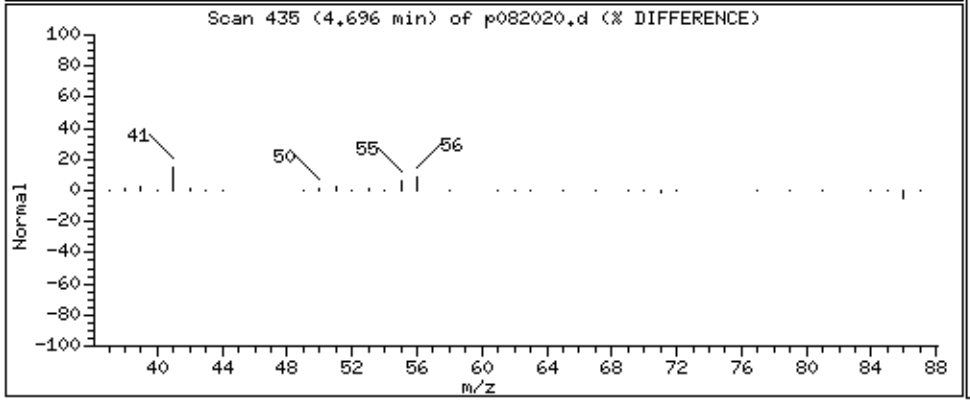












Data File: /chem/msdp.i/20AUG21.b/p082020.d

Date : 20-AUG-2021 23:45

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1L1754

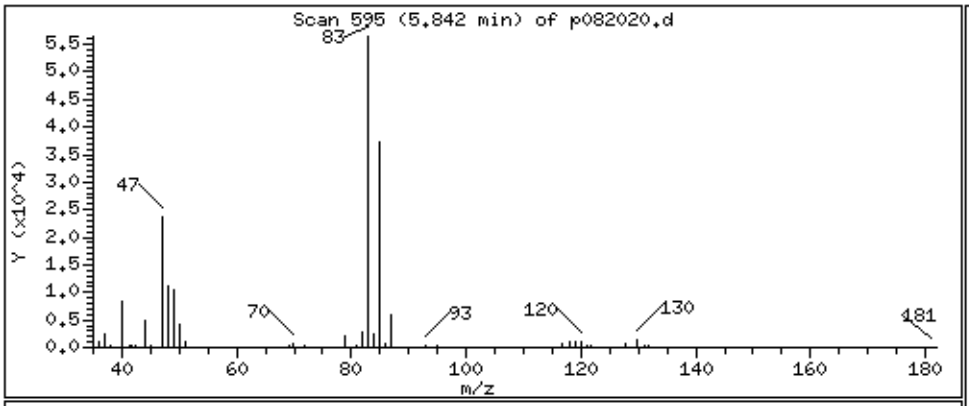
Operator: kk

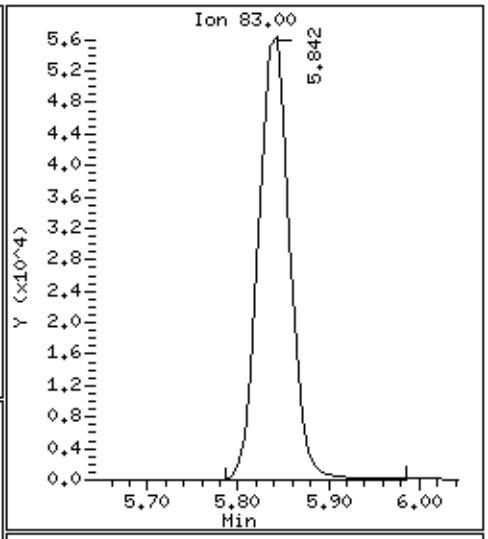
Column phase: RTX-624

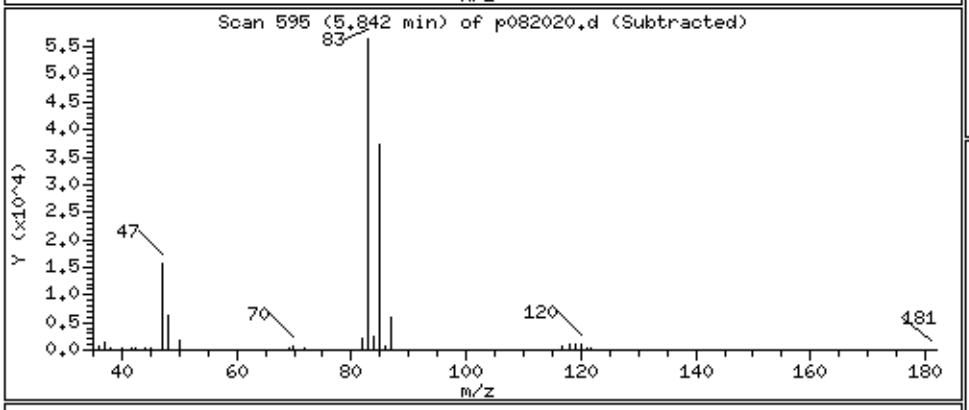
Column diameter: 0.25

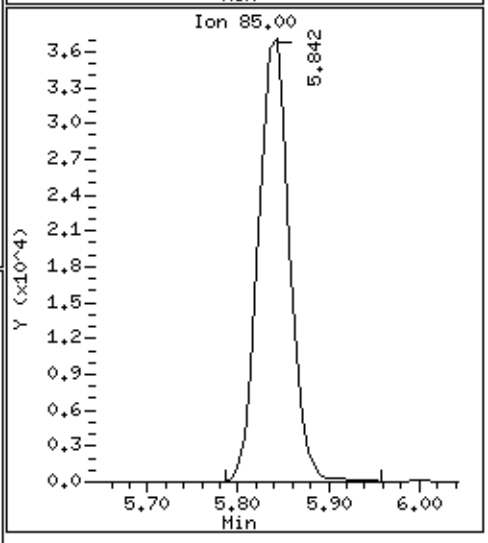
92 Chloroform

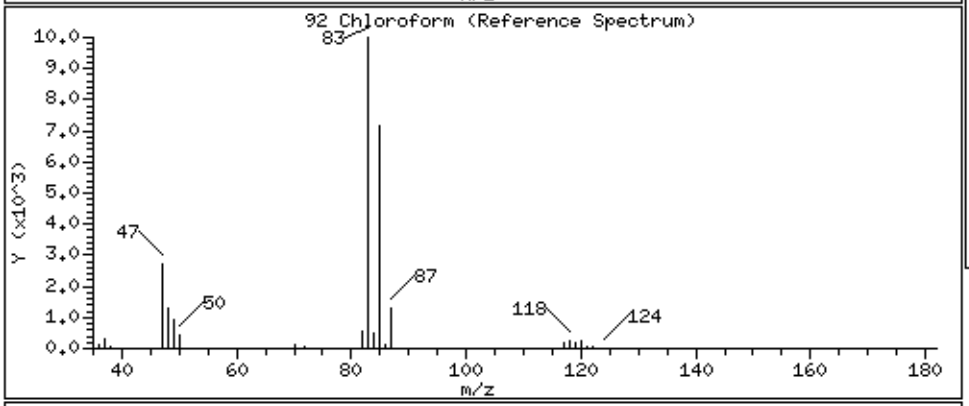
Concentration: 30.811 PPBV

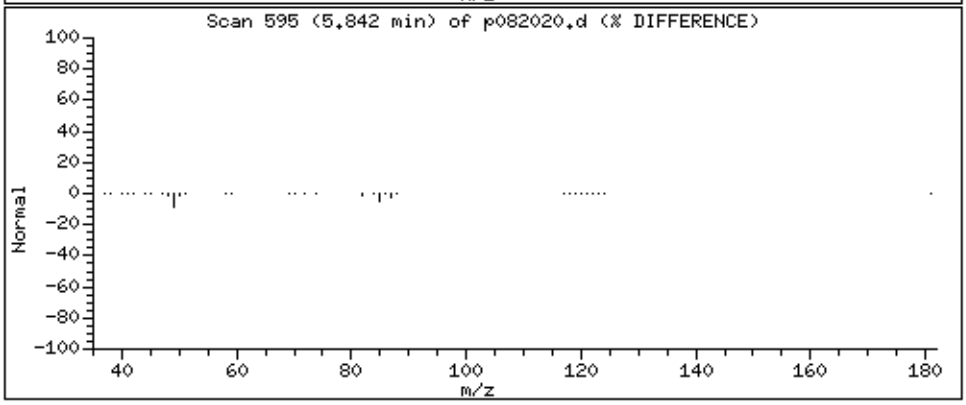












Data File: /chem/msdp.i/20AUG21.b/p082020.d

Date : 20-AUG-2021 23:45

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1L1754

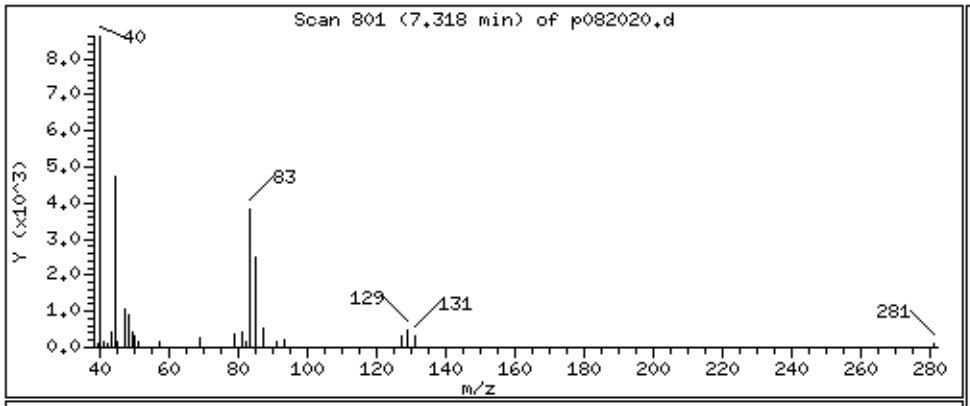
Operator: kk

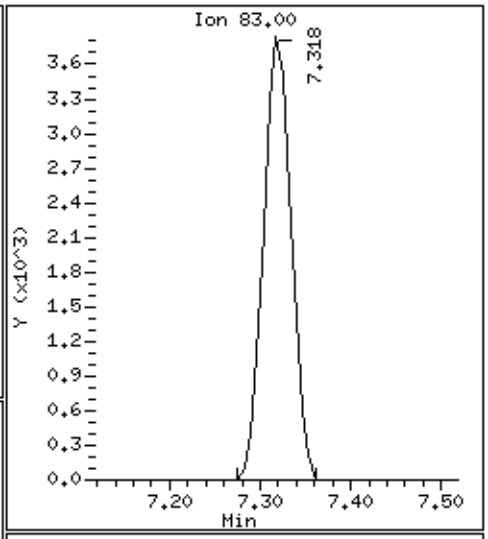
Column phase: RTX-624

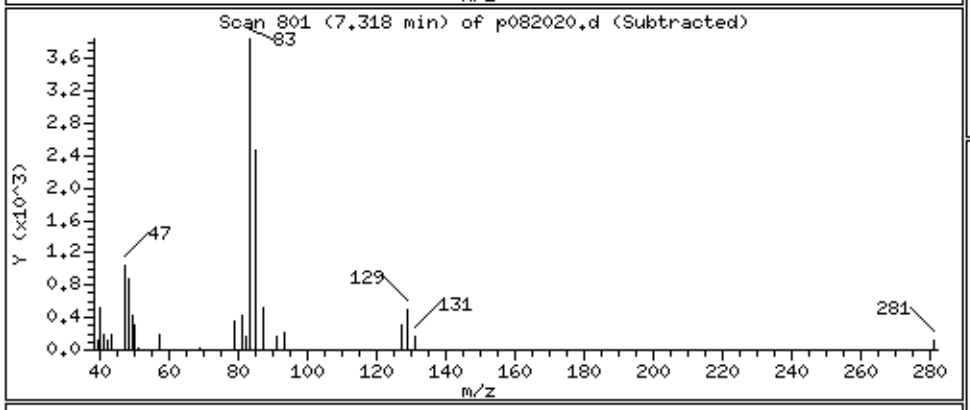
Column diameter: 0.25

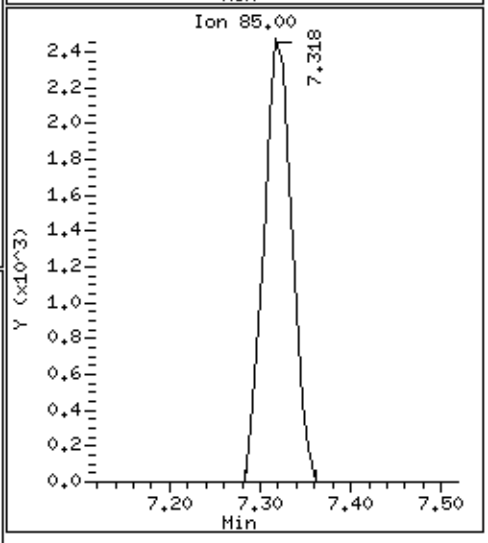
122 Bromodichloromethane

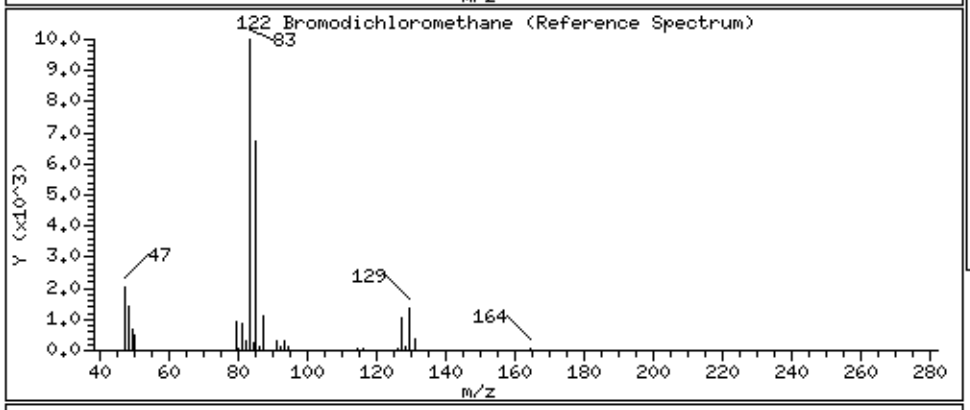
Concentration: 1.829 PPBV

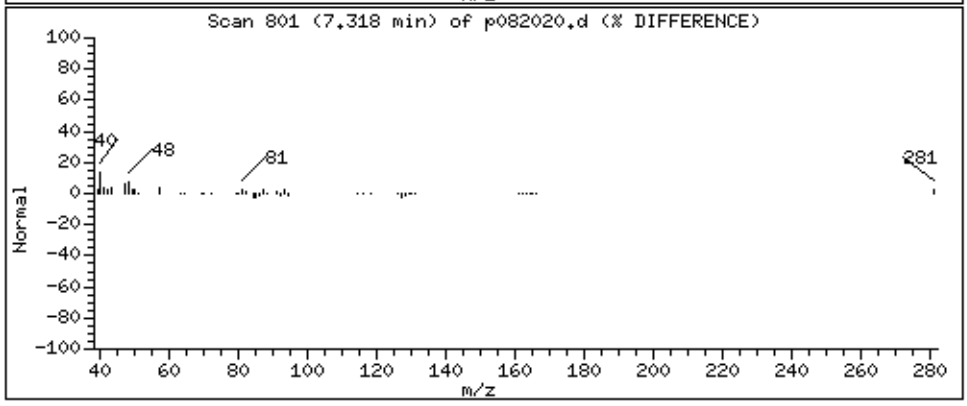












Data File: /chem/msdp.i/20AUG21.b/p082020.d

Date : 20-AUG-2021 23:45

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1L1754

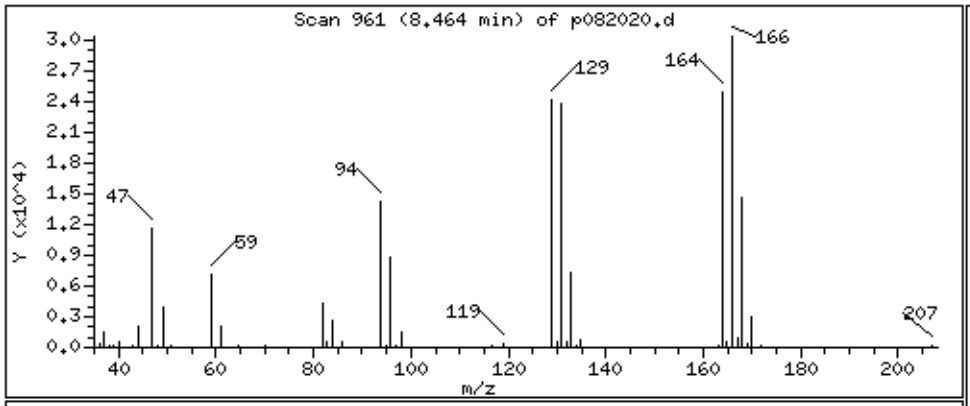
Operator: kk

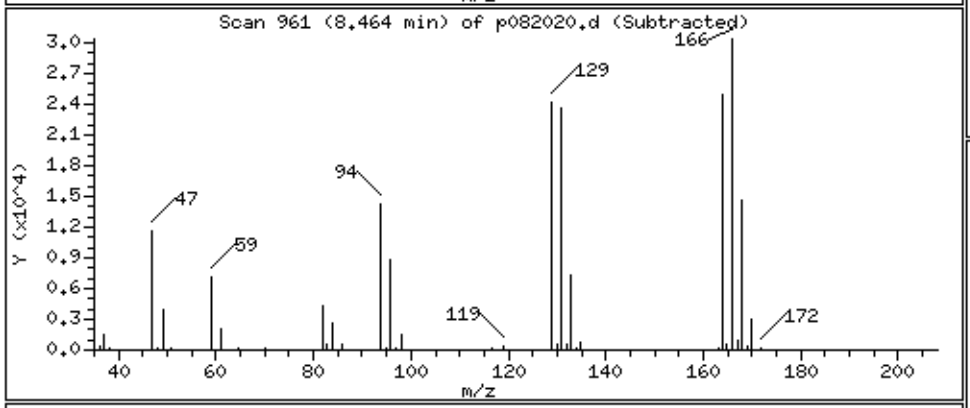
Column phase: RTX-624

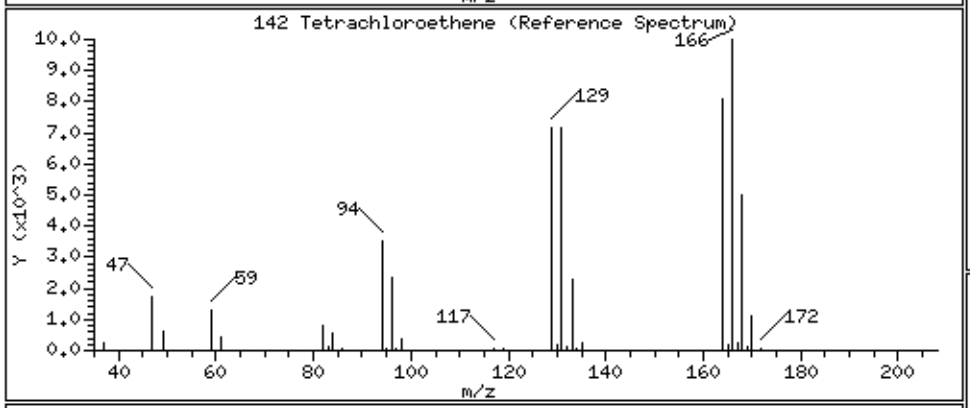
Column diameter: 0.25

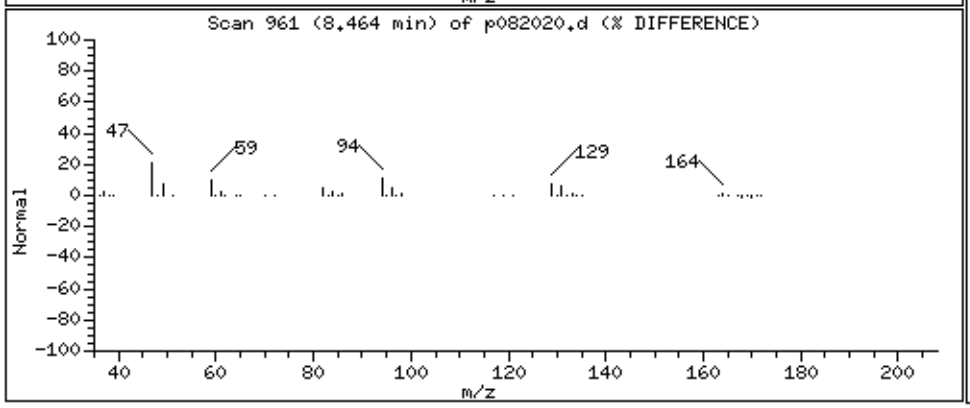
142 Tetrachloroethene

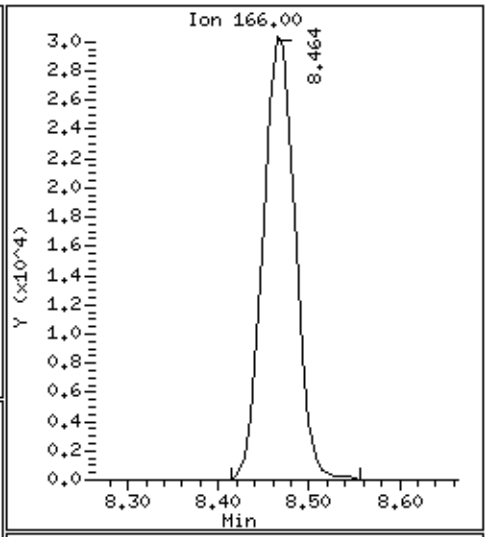
Concentration: 17.712 PPBV

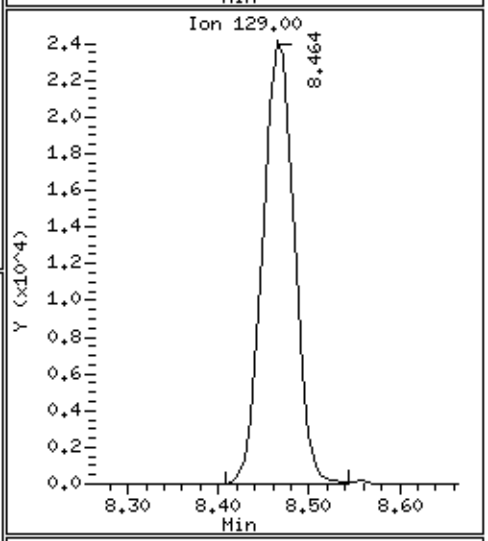


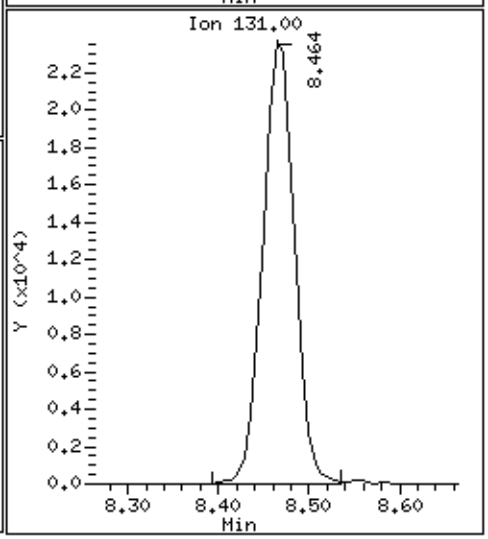












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Client Sample ID: SG-VW55A-03

Lab ID#: 2108390-12A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p082021**	**Date of Collection:**	**8/17/21 6:34:00 AM**
Dil. Factor:	**2.02**	**Date of Analysis:**	**8/21/21 12:15 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1,2-Tetrachloroethane	4.0	Not Detected	28	Not Detected
1,1,1-Trichloroethane	1.0	Not Detected	5.5	Not Detected
1,1,2,2-Tetrachloroethane	1.0	Not Detected	6.9	Not Detected
1,1,2-Trichloroethane	1.0	Not Detected	5.5	Not Detected
1,1-Dichloroethane	1.0	Not Detected	4.1	Not Detected
1,1-Dichloroethene	1.0	Not Detected	4.0	Not Detected
1,1-Difluoroethane	4.0	Not Detected	11	Not Detected
1,2,3-Trichloropropane	4.0	Not Detected	24	Not Detected
1,2,4-Trichlorobenzene	4.0	Not Detected	30	Not Detected
1,2,4-Trimethylbenzene	1.0	2.1	5.0	10
1,2-Dibromo-3-chloropropane	4.0	Not Detected	39	Not Detected
1,2-Dibromoethane (EDB)	1.0	Not Detected	7.8	Not Detected
1,2-Dichlorobenzene	1.0	Not Detected	6.1	Not Detected
1,2-Dichloroethane	1.0	Not Detected	4.1	Not Detected
1,2-Dichloropropane	1.0	Not Detected	4.7	Not Detected
1,3,5-Trimethylbenzene	1.0	Not Detected	5.0	Not Detected
1,3-Butadiene	1.0	Not Detected	2.2	Not Detected
1,3-Dichlorobenzene	1.0	Not Detected	6.1	Not Detected
1,4-Dichlorobenzene	1.0	Not Detected	6.1	Not Detected
1,4-Dioxane	4.0	Not Detected	14	Not Detected
2,2,4-Trimethylpentane	1.0	Not Detected	4.7	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.0	Not Detected	12	Not Detected
2-Hexanone	4.0	Not Detected	16	Not Detected
2-Propanol	4.0	Not Detected	9.9	Not Detected
3-Chloropropene	4.0	Not Detected	13	Not Detected
4-Ethyltoluene	1.0	2.2	5.0	10
4-Methyl-2-pentanone	1.0	Not Detected	4.1	Not Detected
Acetone	10	Not Detected	24	Not Detected
Acrolein	4.0	Not Detected	9.3	Not Detected
Acrylonitrile	4.0	Not Detected	8.8	Not Detected
alpha-Chlorotoluene	1.0	Not Detected	5.2	Not Detected
Benzene	1.0	1.0	3.2	3.2
Bromodichloromethane	1.0	Not Detected	6.8	Not Detected
Bromoform	1.0	Not Detected	10	Not Detected
Bromomethane	10	Not Detected	39	Not Detected
Carbon Disulfide	4.0	Not Detected	12	Not Detected
Carbon Tetrachloride	1.0	Not Detected	6.4	Not Detected
Chlorobenzene	1.0	Not Detected	4.6	Not Detected
Chloroethane	4.0	Not Detected	11	Not Detected
Chloroform	1.0	Not Detected	4.9	Not Detected
Chloromethane	10	Not Detected	21	Not Detected
cis-1,2-Dichloroethene	1.0	Not Detected	4.0	Not Detected

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Client Sample ID: SG-VW55A-03

Lab ID#: 2108390-12A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p082021**	**Date of Collection:**	**8/17/21 6:34:00 AM**
Dil. Factor:	**2.02**	**Date of Analysis:**	**8/21/21 12:15 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,3-Dichloropropene	1.0	Not Detected	4.6	Not Detected
Cumene	1.0	Not Detected	5.0	Not Detected
Cyclohexane	1.0	1.6	3.5	5.4
Dibromochloromethane	1.0	Not Detected	8.6	Not Detected
Dibromomethane	4.0	Not Detected	29	Not Detected
Ethanol	10	19	19	36
Ethyl Acetate	4.0	Not Detected	14	Not Detected
Ethyl Benzene	1.0	2.4	4.4	10
Ethyl-tert-butyl ether	4.0	Not Detected	17	Not Detected
Freon 11	1.0	Not Detected	5.7	Not Detected
Freon 12	1.0	Not Detected	5.0	Not Detected
Freon 113	1.0	Not Detected	7.7	Not Detected
Freon 114	1.0	Not Detected	7.1	Not Detected
Freon 134a	4.0	Not Detected	17	Not Detected
Heptane	1.0	Not Detected	4.1	Not Detected
Hexachlorobutadiene	4.0	Not Detected	43	Not Detected
Hexachloroethane	4.0	Not Detected	39	Not Detected
Hexane	1.0	190	3.6	670
Iodomethane	10	Not Detected	59	Not Detected
Isopropyl ether	4.0	Not Detected	17	Not Detected
m,p-Xylene	1.0	9.3	4.4	40
Methyl tert-butyl ether	4.0	Not Detected	14	Not Detected
Methylene Chloride	10	Not Detected	35	Not Detected
Naphthalene	2.0	Not Detected	10	Not Detected
o-Xylene	1.0	3.2	4.4	14
Propylbenzene	1.0	Not Detected	5.0	Not Detected
Propylene	4.0	Not Detected	7.0	Not Detected
Styrene	1.0	Not Detected	4.3	Not Detected
tert-Amyl methyl ether	4.0	Not Detected	17	Not Detected
tert-Butyl alcohol	4.0	Not Detected	12	Not Detected
Tetrachloroethene	1.0	Not Detected	6.8	Not Detected
Tetrahydrofuran	1.0	Not Detected	3.0	Not Detected
Toluene	1.0	8.6	3.8	32
TPH ref. to Gasoline (MW=100)	100	320	410	1300
trans-1,2-Dichloroethene	1.0	Not Detected	4.0	Not Detected
trans-1,3-Dichloropropene	1.0	Not Detected	4.6	Not Detected
Trichloroethene	1.0	Not Detected	5.4	Not Detected
Vinyl Acetate	4.0	Not Detected	14	Not Detected
Vinyl Bromide	4.0	Not Detected	18	Not Detected
Vinyl Chloride	1.0	Not Detected	2.6	Not Detected

Container Type: 1 Liter Summa Canister

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Client Sample ID: SG-VW55A-03

Lab ID#: 2108390-12A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p082021**	**Date of Collection:**	**8/17/21 6:34:00 AM**
Dil. Factor:	**2.02**	**Date of Analysis:**	**8/21/21 12:15 AM**

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	114	70-130
4-Bromofluorobenzene	104	70-130

US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/20AUG21.b/p082021.d
Lab Smp Id: 2108390-12A
Inj Date : 21-AUG-2021 00:15
Operator : kk Inst ID: msdp.i
Smp Info : 200ml 1L1913
Misc Info : 5.0 Hg->10 psi
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/20AUG21.b/p21q0519a.m
Meth Date : 20-Aug-2021 12:59 p5fl Quant Type: ISTD
Cal Date : 19-MAY-2021 19:45 Cal File: p051915.d
Als bottle: 3
Dil Factor: 2.02000
Integrator: HP RTE Compound Sublist: AEC25677.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE		(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 90 Bromochloromethane						CAS #: 74-97-5		
5.785	5.785 (1.000)	130	104070	25.0000			80.00- 120.00	100.00
5.785	5.785 (1.000)	128	82236				48.23- 108.23	79.02
5.785	5.778 (1.000)	49	241953				150.57- 210.57	232.49
* 108 1,4-Difluorobenzene						CAS #: 540-36-3		
6.666	6.659 (1.000)	114	381466	25.0000			80.00- 120.00	100.00
6.666	6.659 (1.000)	88	53401				0.00- 45.71	14.00
* 153 Chlorobenzene-d5						CAS #: 3114-55-4		
9.460	9.460 (1.000)	117	390633	25.0000			80.00- 120.00	100.00
9.460	9.460 (1.000)	82	203498				23.78- 83.78	52.09
$ 104 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
6.315	6.315 (1.092)	65	163108	28.3995	28.399		80.00- 120.00	100.00
6.315	6.315 (1.092)	67	74451				27.21- 87.21	45.65
$ 134 Toluene-d8						CAS #: 2037-26-5		
7.891	7.891 (1.184)	98	417991	25.2338	25.234		80.00- 120.00	100.00
7.891	7.891 (1.184)	70	47115				0.00- 40.44	11.27

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 134 Toluene-d8 (continued)							
7.891	7.891 (1.184)	100	270042			34.95- 94.95	64.60
$ 170 4-Bromofluorobenzene					CAS #: 460-00-4		
10.921	10.921 (1.154)	174	262303	26.1492	26.149	80.00- 120.00	100.00
10.921	10.914 (1.154)	95	305477			95.92- 155.92	116.46
10.921	10.921 (1.154)	176	249848			66.89- 126.89	95.25
39 Ethanol					CAS #: 64-17-5		
3.257	3.242 (0.563)	46	9768	9.46460	19.118	80.00- 120.00	100.00
3.257	3.285 (0.563)	45	25288			511.19- 571.19	258.88
67 Hexane					CAS #: 110-54-3		
4.696	4.697 (0.812)	57	967402	94.3614	190.61	80.00- 120.00	100.00
4.696	4.697 (0.812)	43	767483			37.52- 97.52	79.33
4.696	4.697 (0.812)	86	97943			0.00- 41.48	10.12
94 Cyclohexane					CAS #: 110-82-7		
5.964	5.957 (1.031)	84	5138	0.78486	1.585	80.00- 120.00	100.00
5.964	5.957 (1.031)	56	16708			142.57- 202.57	325.18
5.964	5.957 (1.031)	41	11442			62.09- 122.09	222.70
102 Benzene					CAS #: 71-43-2		
6.301	6.301 (0.945)	78	6339	0.50357	1.017	80.00- 120.00	100.00
6.301	6.301 (0.945)	77	1808			0.00- 52.90	28.53
137 Toluene					CAS #: 108-88-3		
7.956	7.956 (1.193)	91	73897	4.25490	8.595	80.00- 120.00	100.00
7.956	7.956 (1.193)	92	41837			28.38- 88.38	56.62
155 Ethyl Benzene					CAS #: 100-41-4		
9.567	9.567 (1.011)	106	9545	1.17681	2.377	80.00- 120.00	100.00
9.567	9.567 (1.011)	91	29731			273.74- 333.74	311.46
158 m,p-Xylene					CAS #: 108-38-3		
9.718	9.718 (1.027)	106	46940	4.62077	9.334	80.00- 120.00	100.00
9.718	9.718 (1.027)	91	91973			163.73- 223.73	195.94
164 o-Xylene					CAS #: 95-47-6		
10.226	10.226 (1.081)	106	15586	1.60136	3.235	80.00- 120.00	100.00
10.226	10.226 (1.081)	91	30407			177.45- 237.45	195.09
183 4-Ethyltoluene					CAS #: 622-96-8		
11.251	11.287 (1.189)	120	10518	1.06685	2.155	80.00- 120.00	100.00
11.258	11.287 (1.190)	105	28714			284.55- 344.55	273.00

					CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
RT	EXP RT (REL RT)	MASS	RESPONSE					
190 1,2,4-Trimethylbenzene						CAS #: 95-63-6		
11.817	11.817 (1.249)	105	26483	1.03366	2.088		80.00- 120.00	100.00
11.817	11.817 (1.249)	120	12293				19.05- 79.05	46.42

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p082021.d
Lab Smp Id: 2108390-12A
Analysis Type: VOA
Quant Type: ISTD
Operator: kk
Method File: /chem/msdp.i/20AUG21.b/p21q0519a.m
Misc Info: 5.0 Hg->10 psi

Calibration Date: 20-AUG-2021
Calibration Time: 11:13
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	109375	65625	153125	104070	-4.85
108 1,4-Difluorobenze	406799	244079	569519	381466	-6.23
153 Chlorobenzene-d5	400841	240505	561177	390633	-2.55

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.79	5.46	6.12	5.79	-0.00
108 1,4-Difluorobenze	6.66	6.33	6.99	6.67	0.11
153 Chlorobenzene-d5	9.46	9.13	9.79	9.46	-0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 24-Aug-2021 11:27

US32TAR1

RECOVERY REPORT

Client Name: Client SDG: 20AUG21
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 2108390-12A
Level: LOW Operator: kk
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT20_new.spk Quant Type: ISTD
Sublist File: AEC25677.sub
Method File: /chem/msdp.i/20AUG21.b/p21q0519a.m
Misc Info: 5.0 Hg->10 psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 104 1,2-Dichloroethan	25.000	28.399	113.60	70-130
$ 134 Toluene-d8	25.000	25.234	100.94	70-130
$ 170 4-Bromofluorobenz	25.000	26.149	104.60	70-130

Data File: /chem/msdp.i/20AUG21.b/p082021.d

Date : 21-AUG-2021 00:15

Client ID:

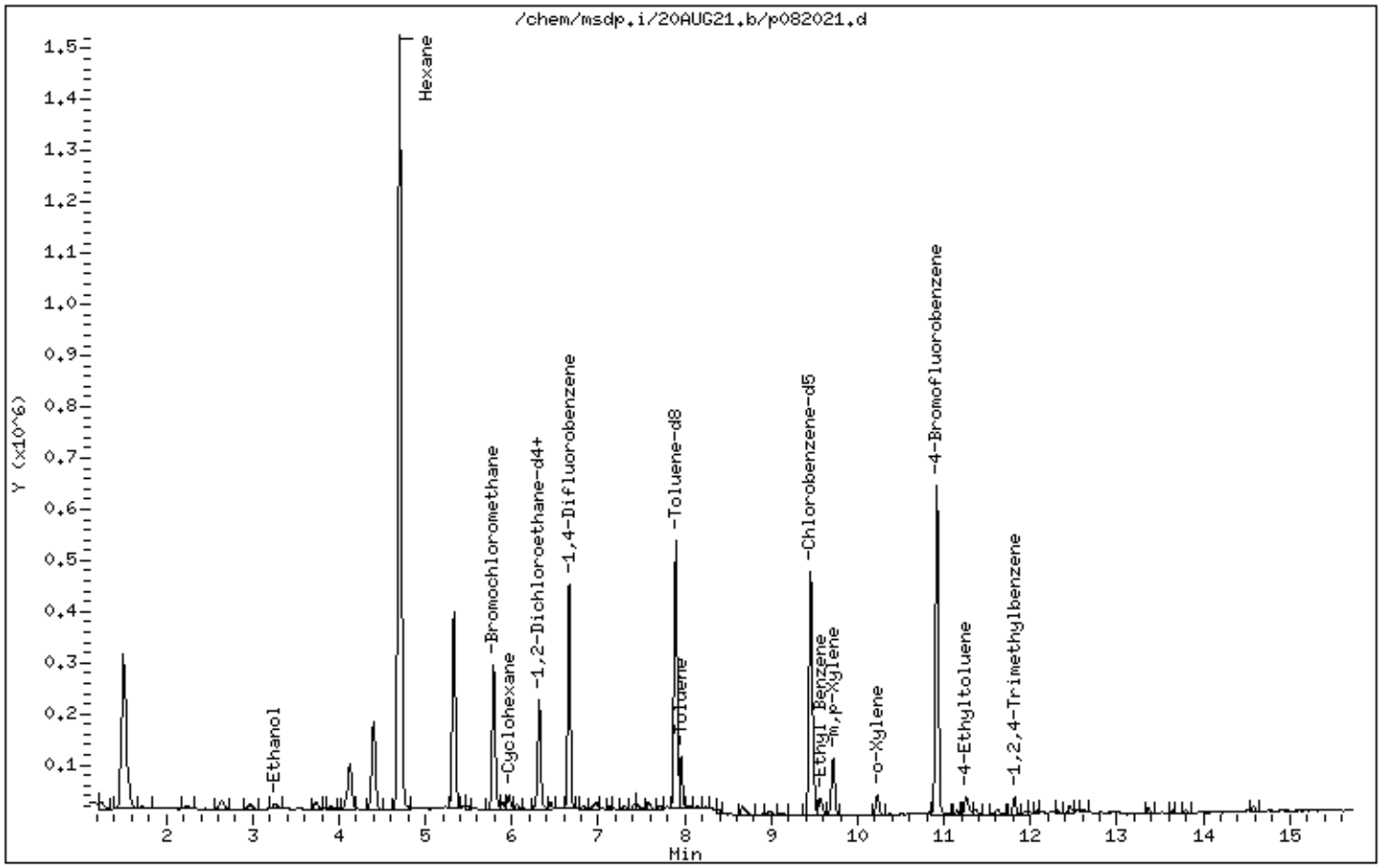
Instrument: msdp.i

Sample Info: 200ml 1L1913

Operator: kk

Column phase: RTX-624

Column diameter: 0.25



Data File: /chem/msdp.i/20AUG21.b/p082021.d

Date : 21-AUG-2021 00:15

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1L1913

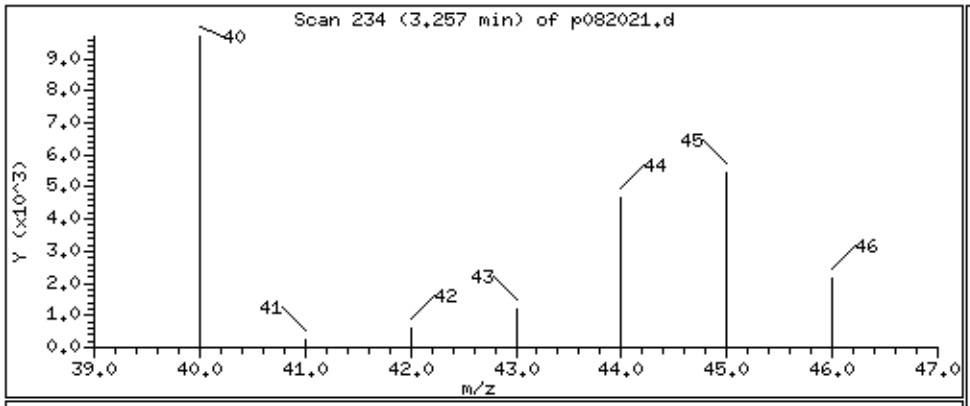
Operator: kk

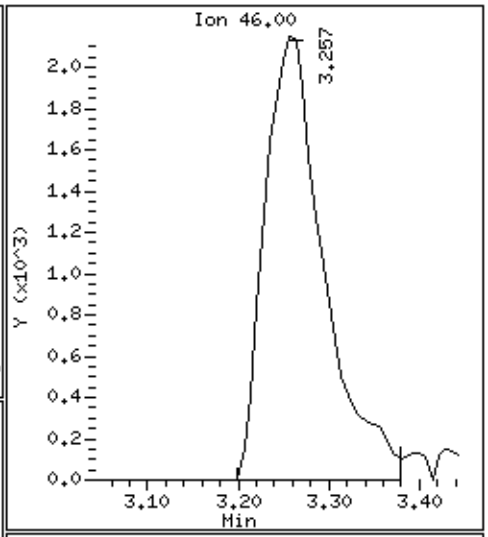
Column phase: RTX-624

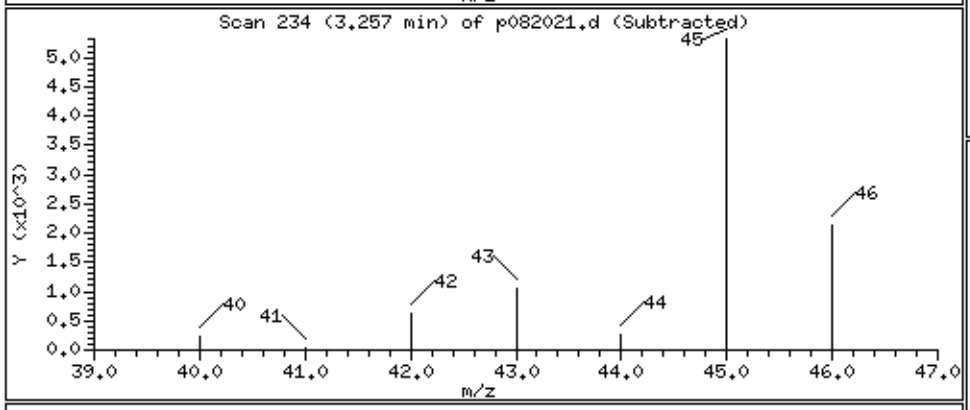
Column diameter: 0.25

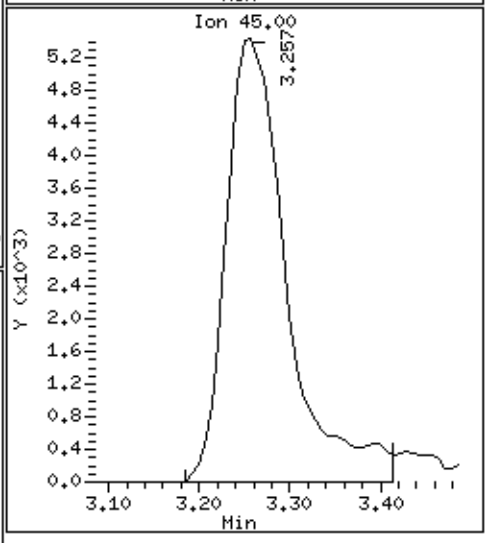
39 Ethanol

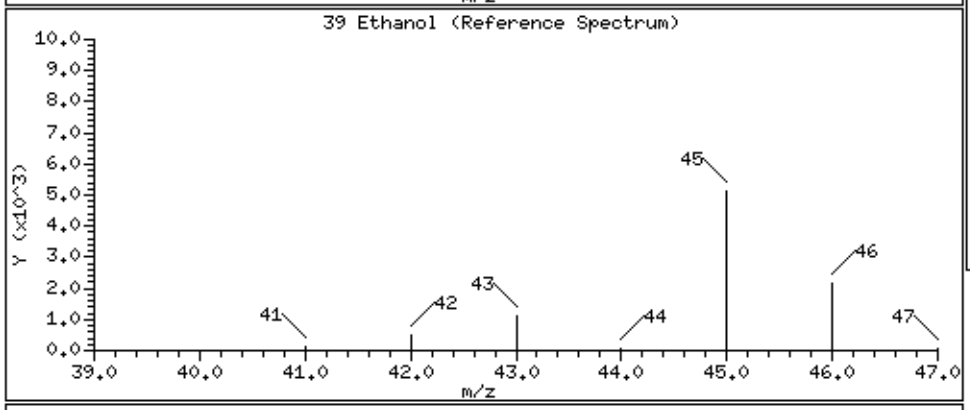
Concentration: 19.118 PPBV

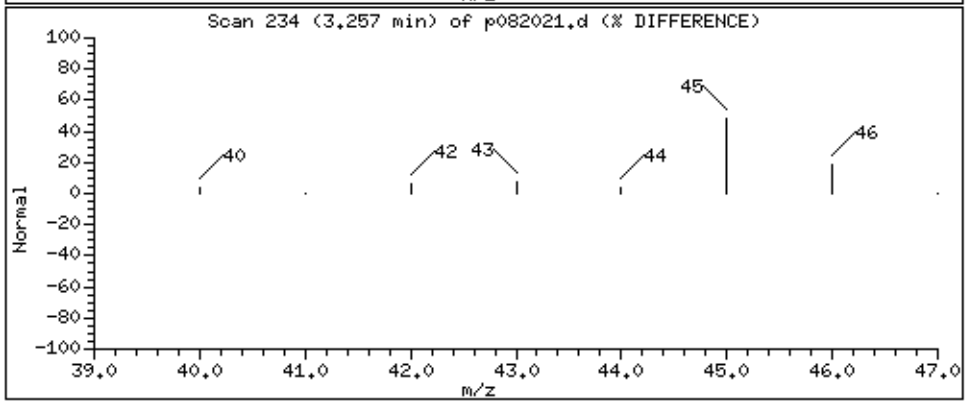












Data File: /chem/msdp.i/20AUG21.b/p082021.d

Date : 21-AUG-2021 00:15

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1L1913

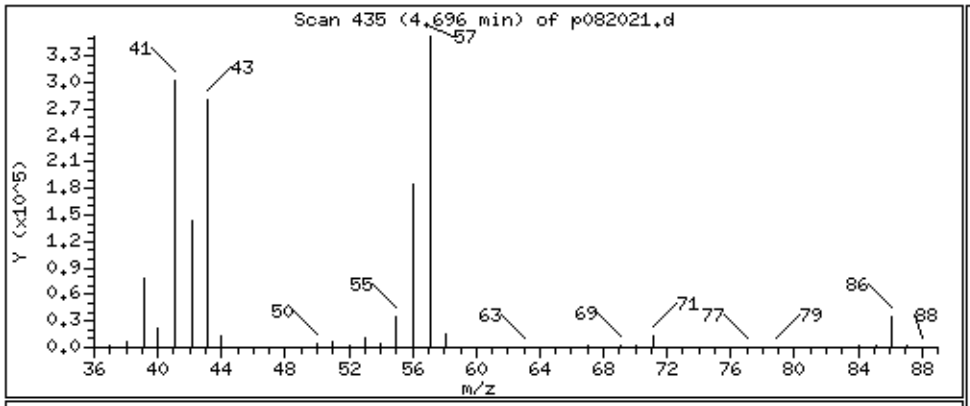
Operator: kk

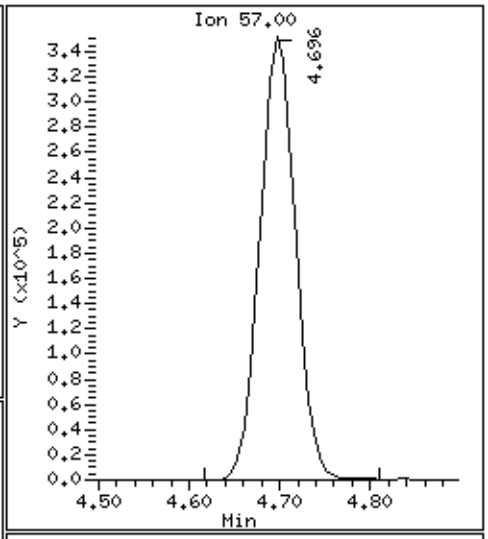
Column phase: RTX-624

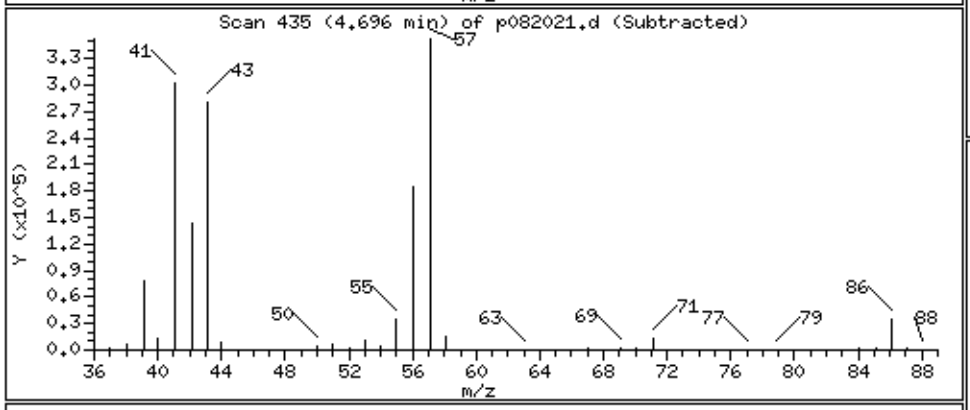
Column diameter: 0.25

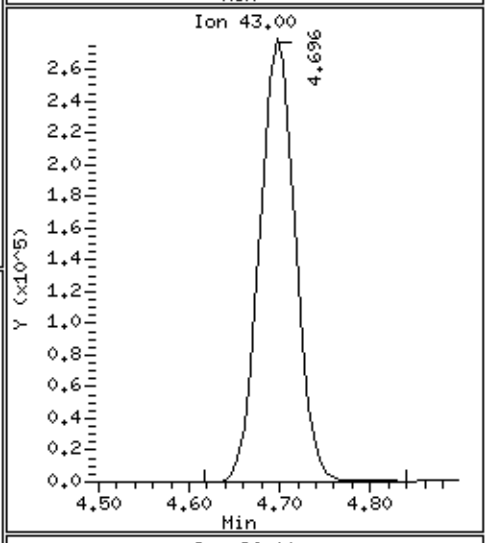
67 Hexane

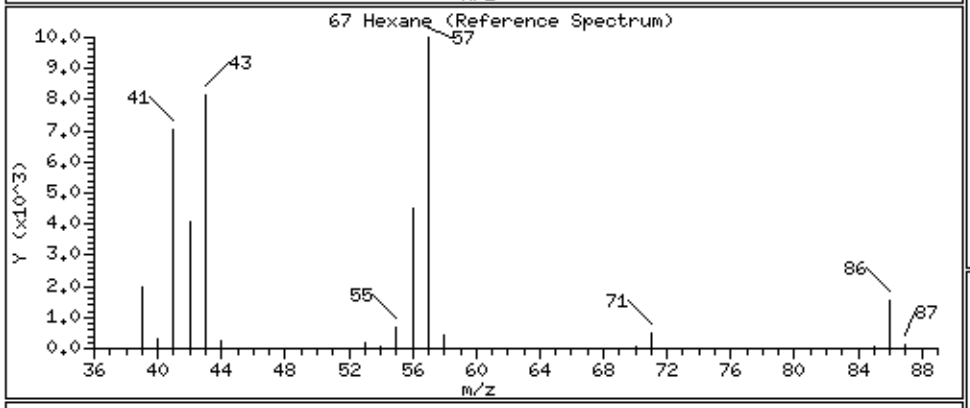
Concentration: 190.61 PPBV

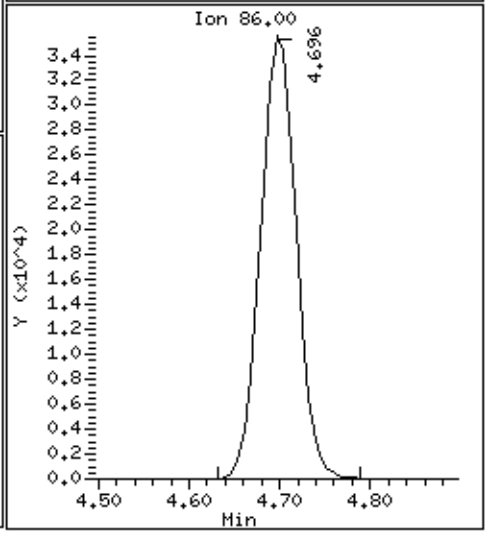


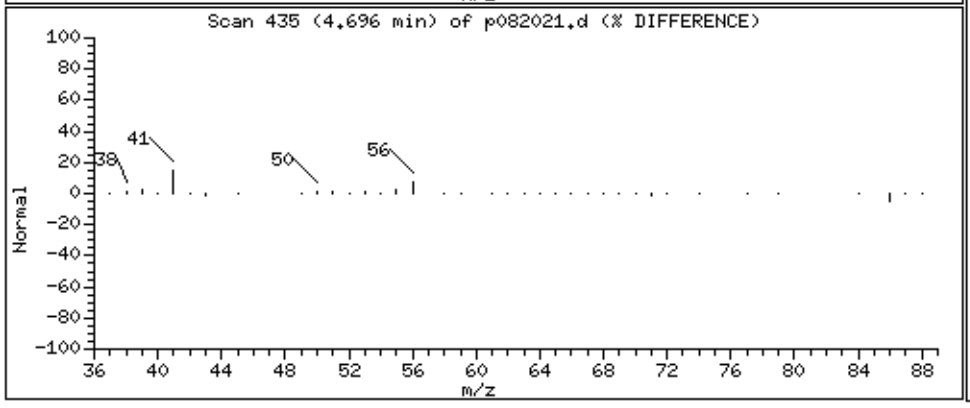












Data File: /chem/msdp.i/20AUG21.b/p082021.d

Date : 21-AUG-2021 00:15

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1L1913

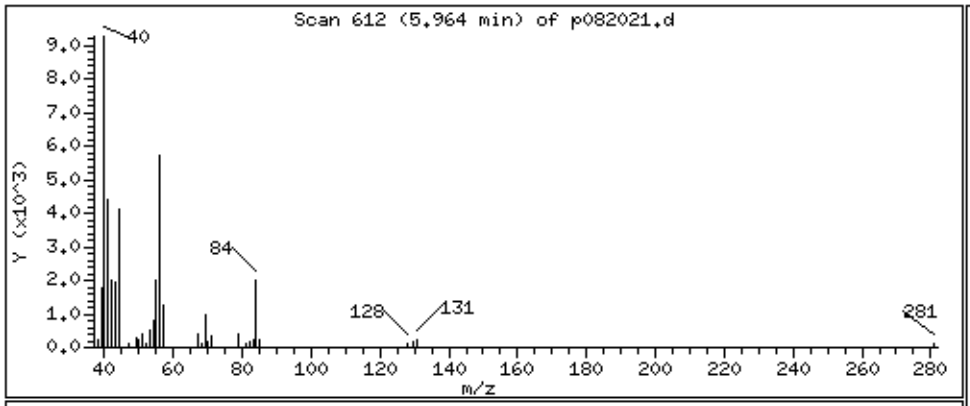
Operator: kk

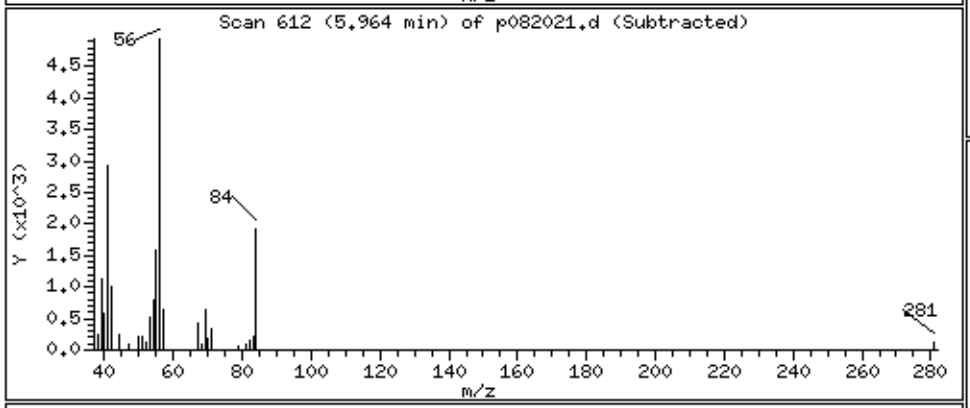
Column phase: RTX-624

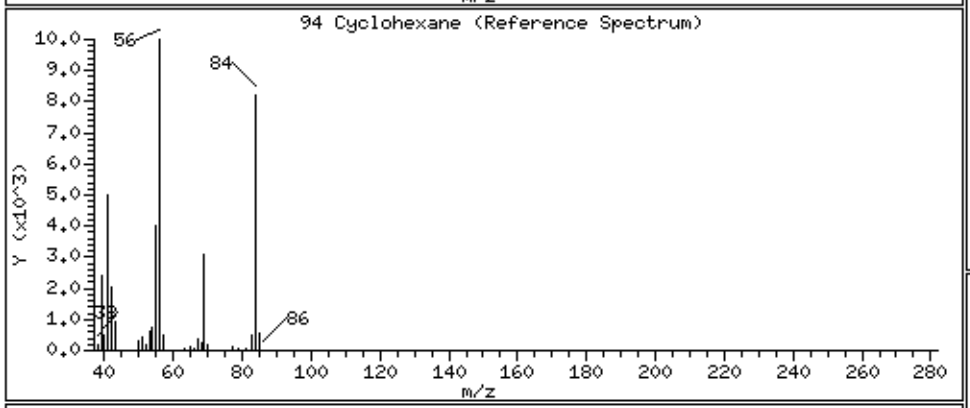
Column diameter: 0.25

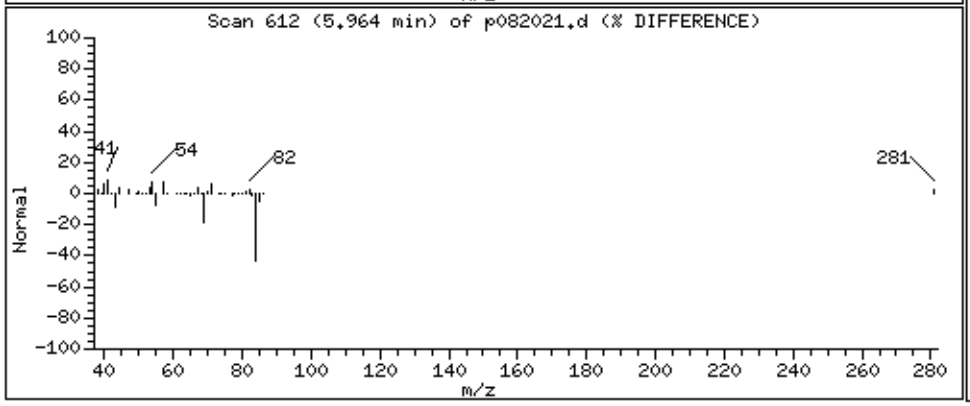
94 Cyclohexane

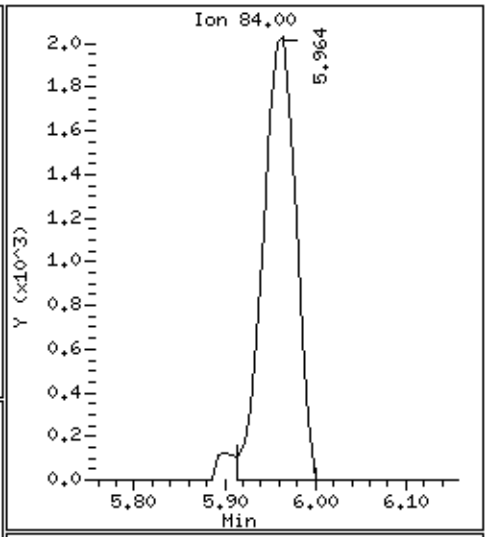
Concentration: 1.585 PPBV

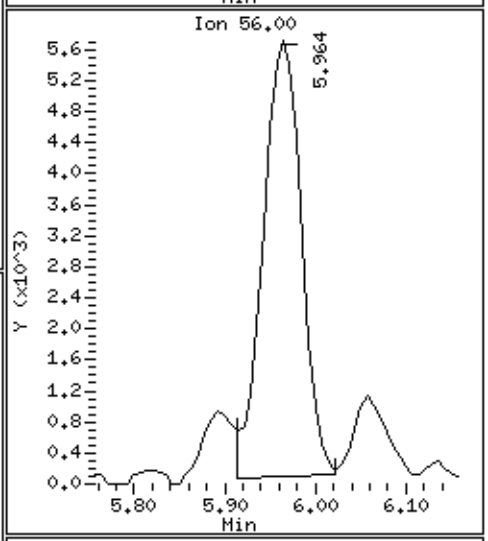


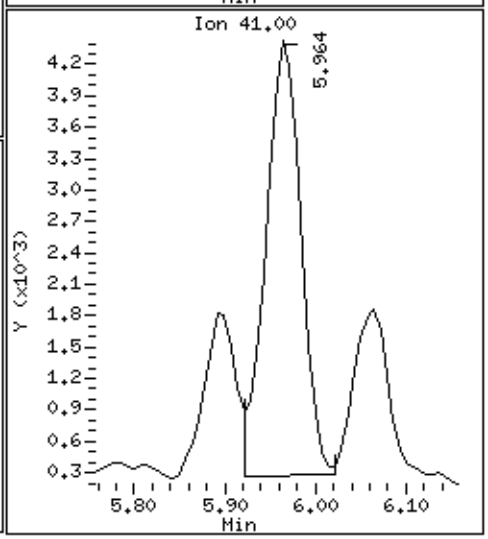












Data File: /chem/msdp.i/20AUG21.b/p082021.d

Date : 21-AUG-2021 00:15

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1L1913

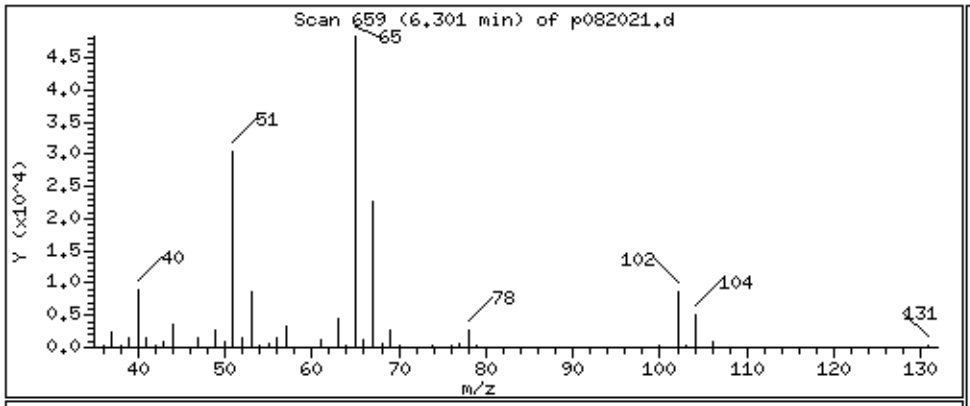
Operator: kk

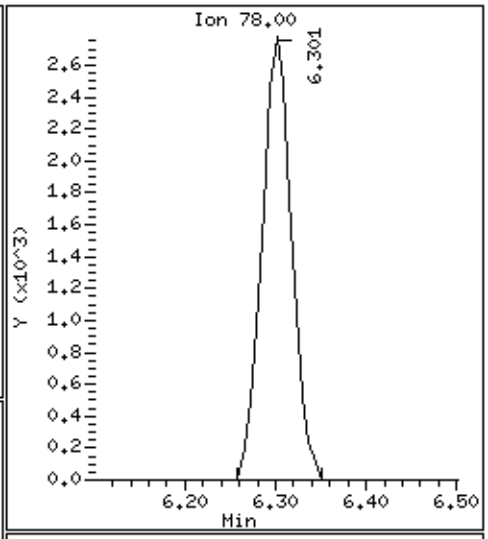
Column phase: RTX-624

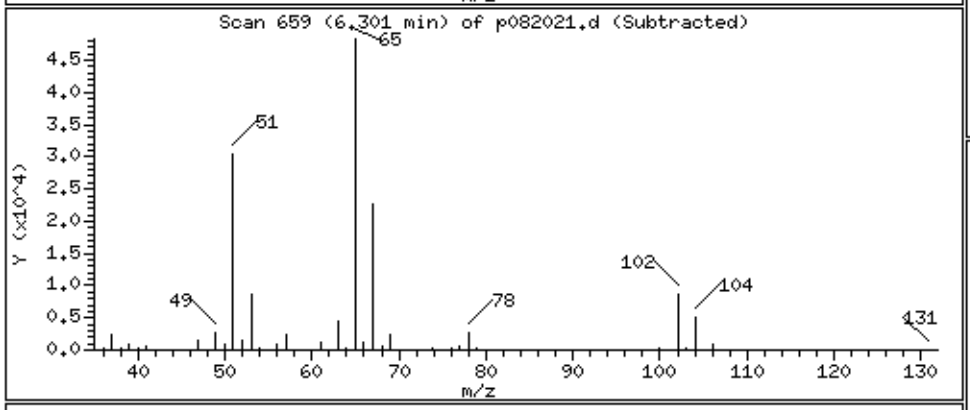
Column diameter: 0.25

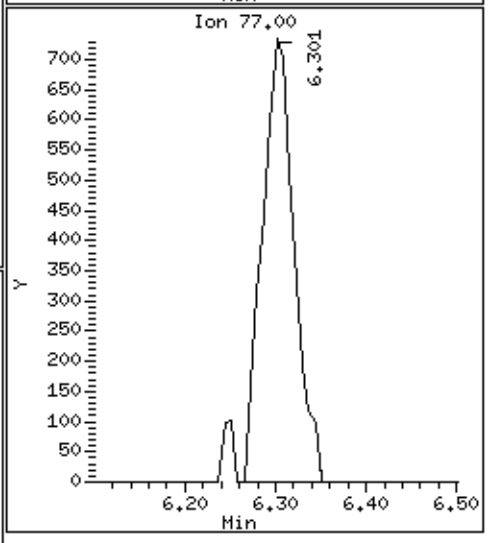
102 Benzene

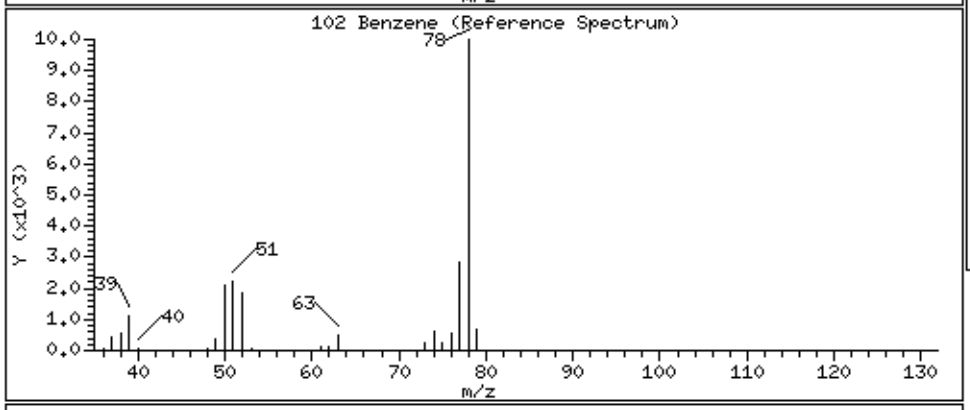
Concentration: 1.017 PPBV

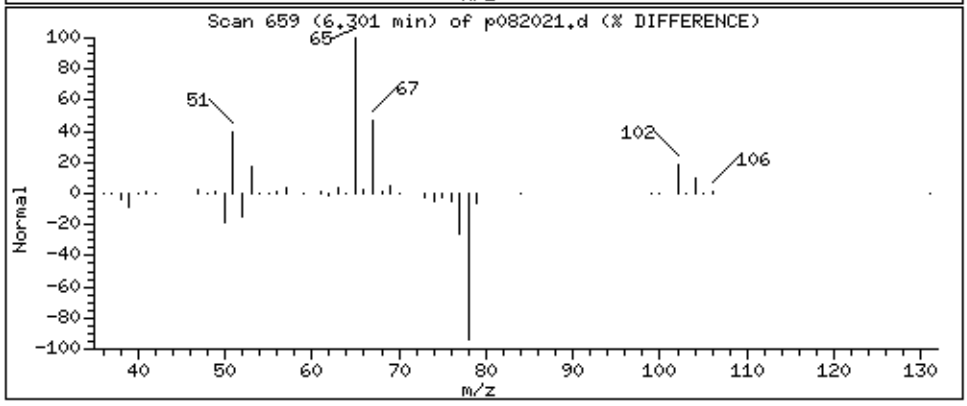












Data File: /chem/msdp.i/20AUG21.b/p082021.d

Date : 21-AUG-2021 00:15

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1L1913

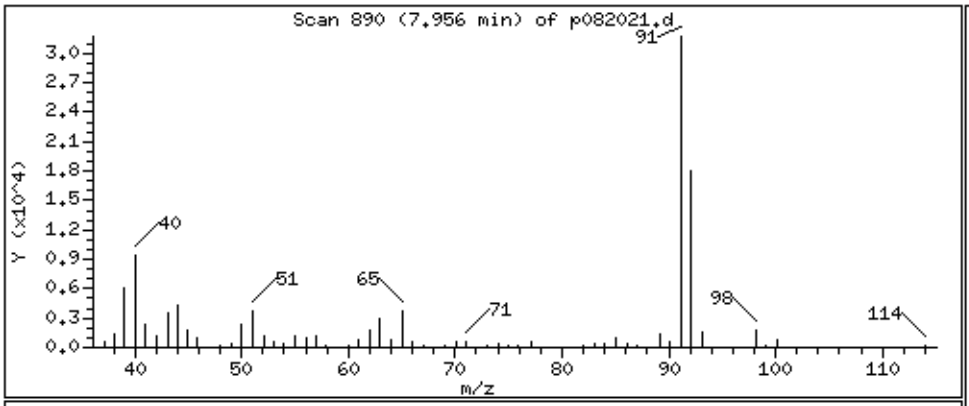
Operator: kk

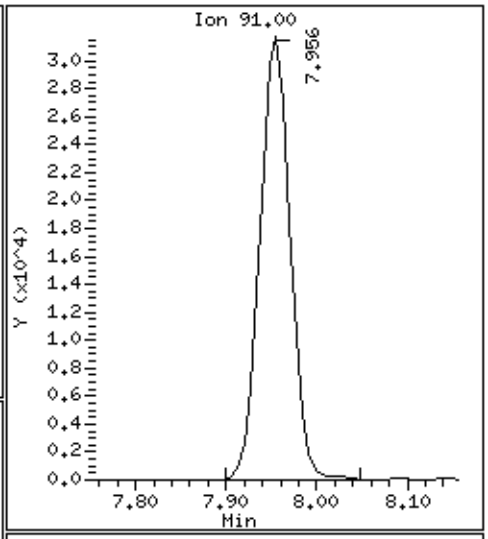
Column phase: RTX-624

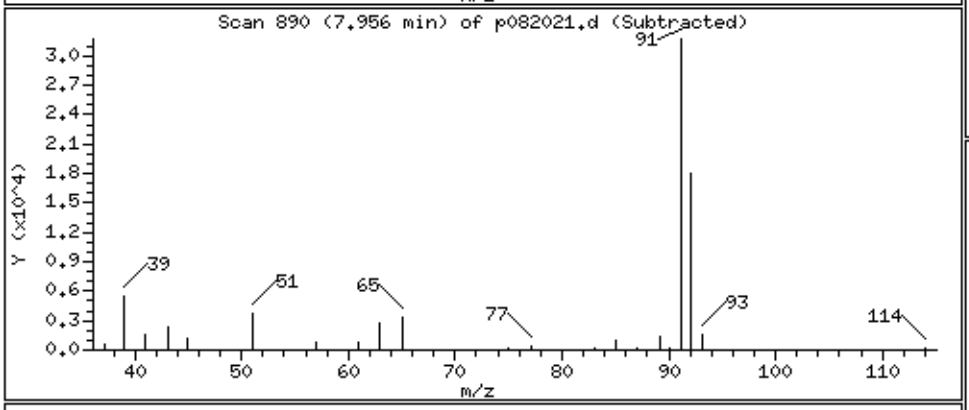
Column diameter: 0.25

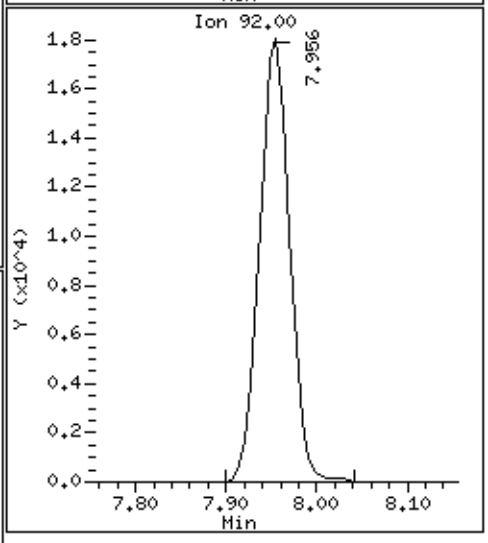
137 Toluene

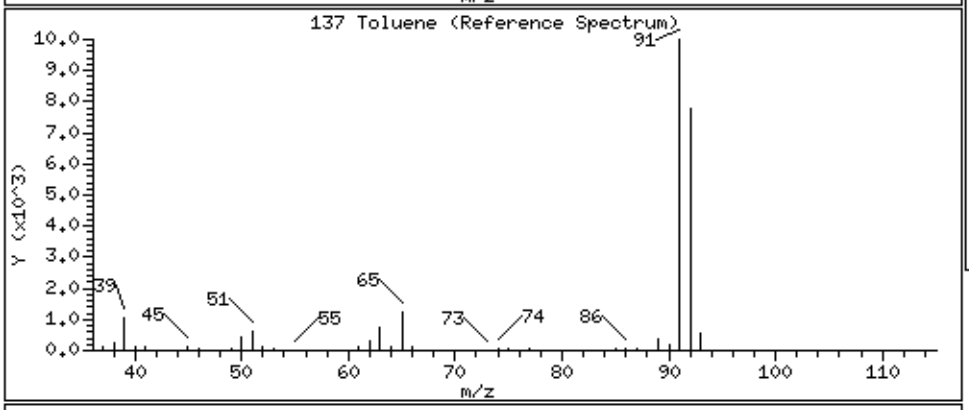
Concentration: 8.595 PPBV

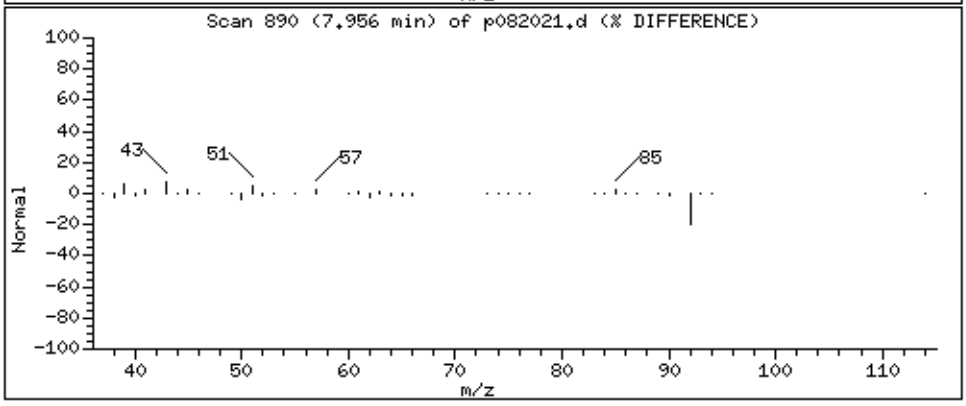












Data File: /chem/msdp.i/20AUG21.b/p082021.d

Date : 21-AUG-2021 00:15

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1L1913

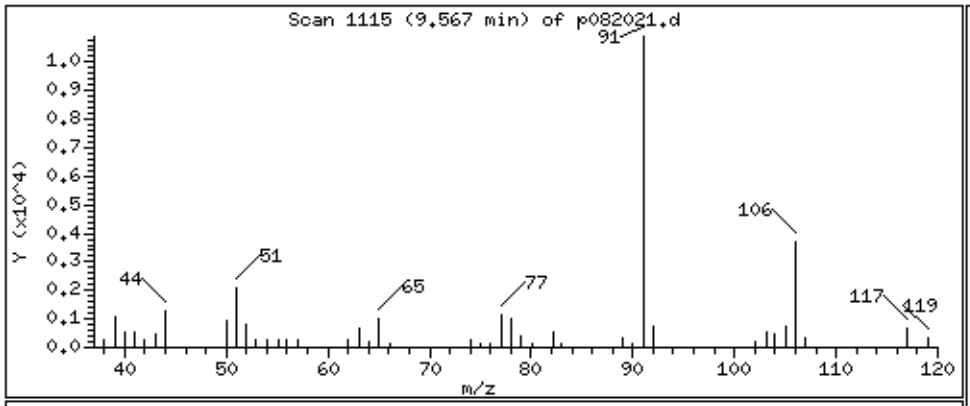
Operator: kk

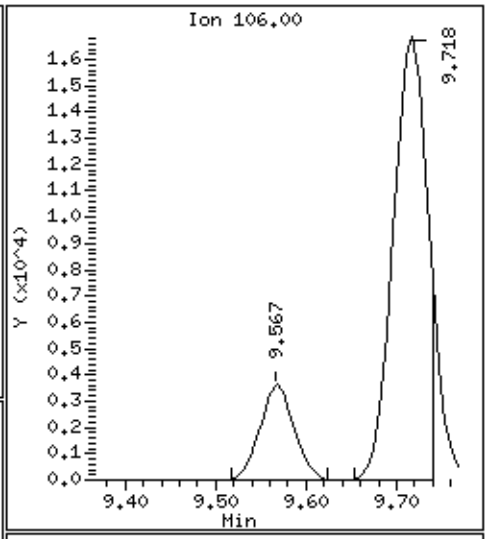
Column phase: RTX-624

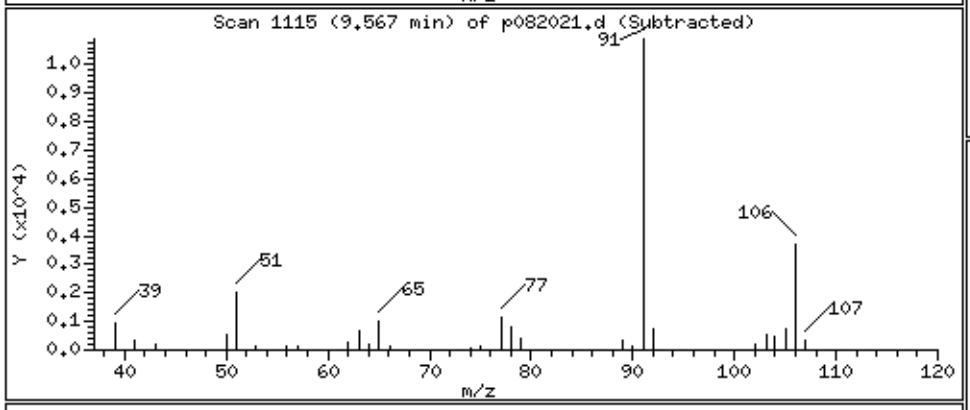
Column diameter: 0.25

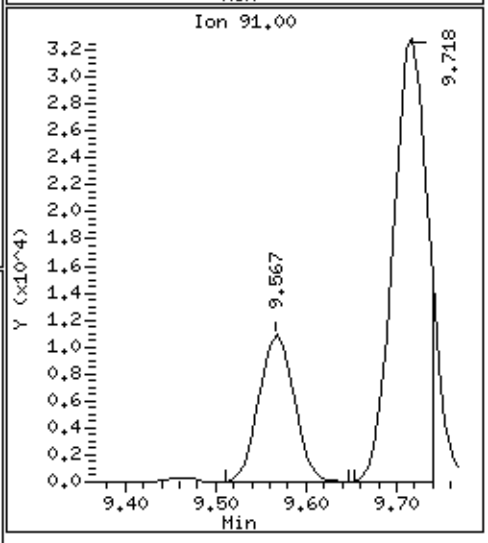
155 Ethyl Benzene

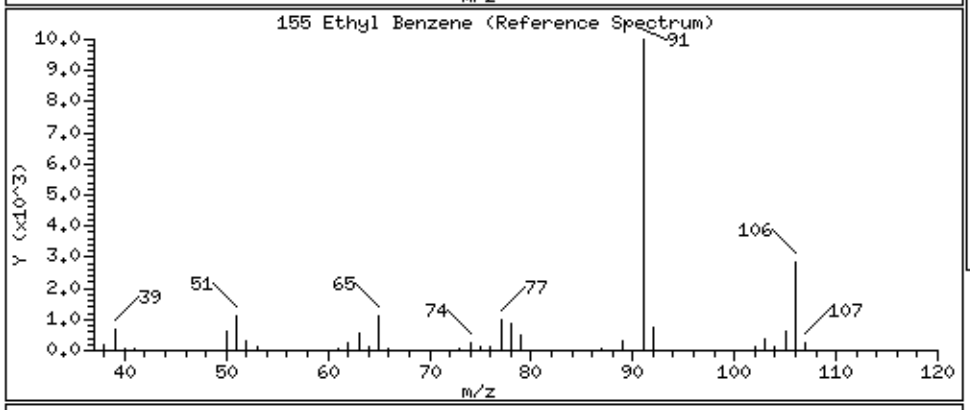
Concentration: 2.377 PPBV

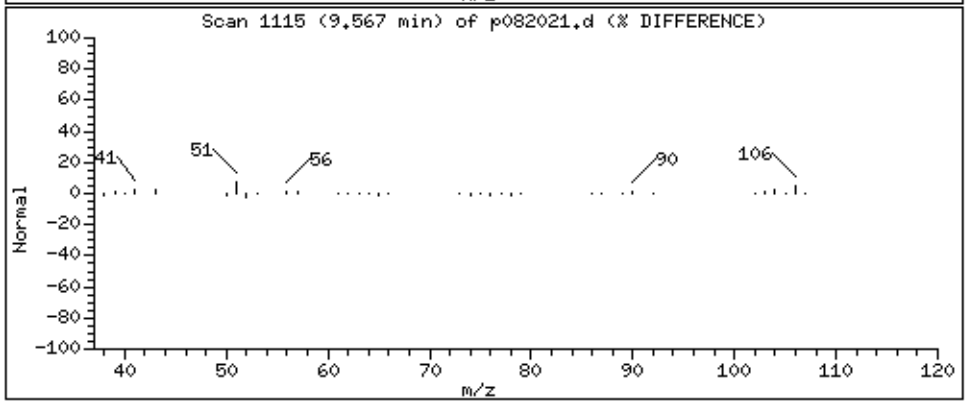












Data File: /chem/msdp.i/20AUG21.b/p082021.d

Date : 21-AUG-2021 00:15

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1L1913

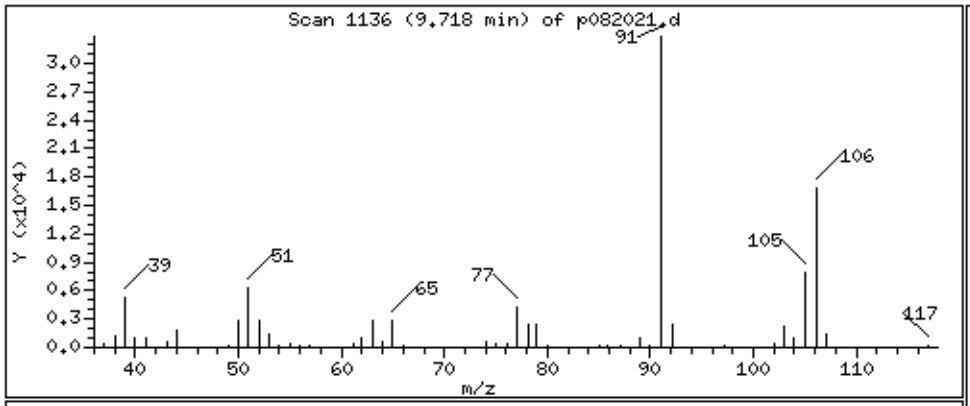
Operator: kk

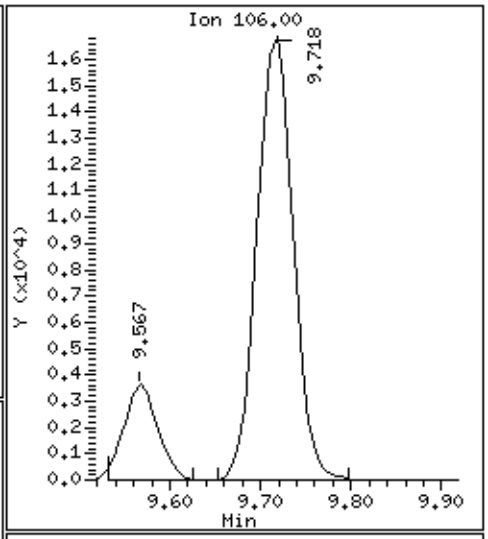
Column phase: RTX-624

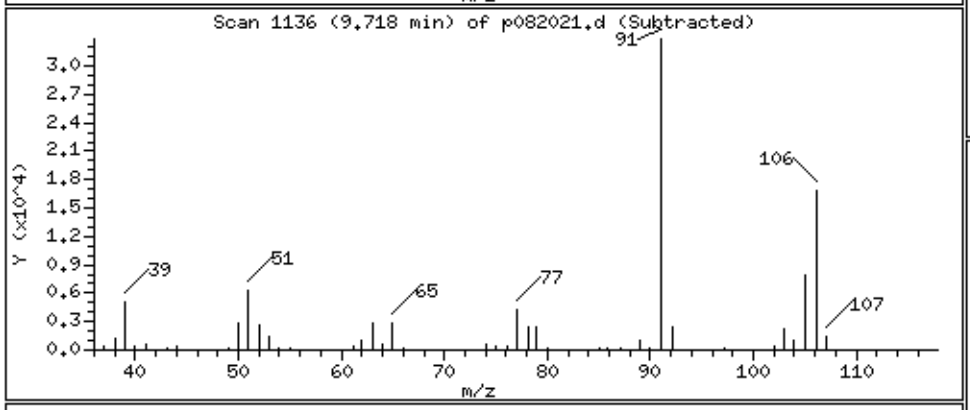
Column diameter: 0.25

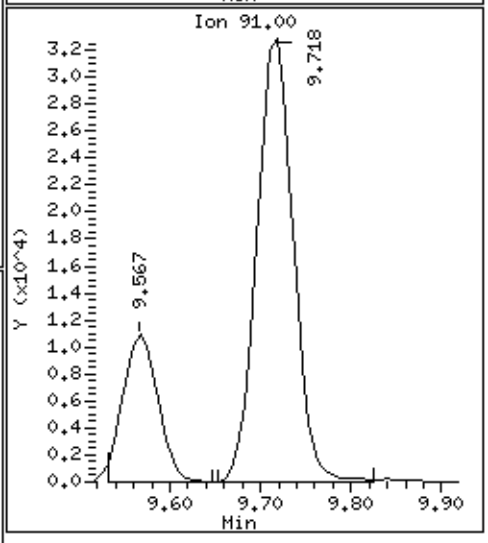
158 m,p-Xylene

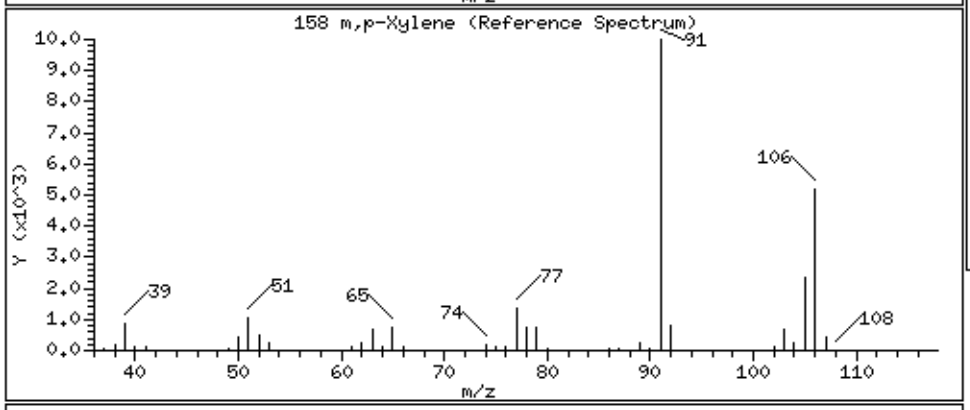
Concentration: 9.334 PPBV

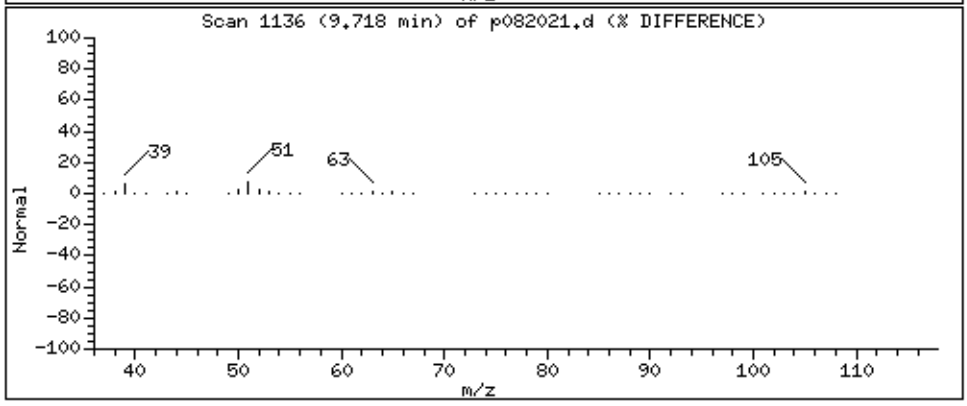












Data File: /chem/msdp.i/20AUG21.b/p082021.d

Date : 21-AUG-2021 00:15

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1L1913

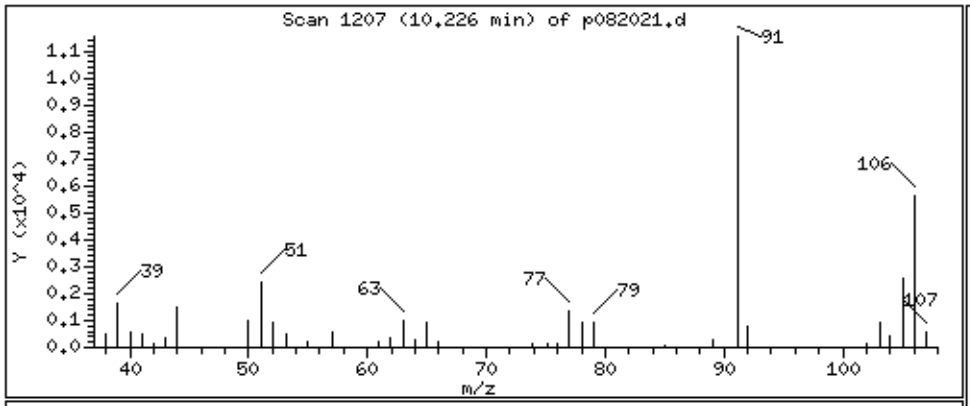
Operator: kk

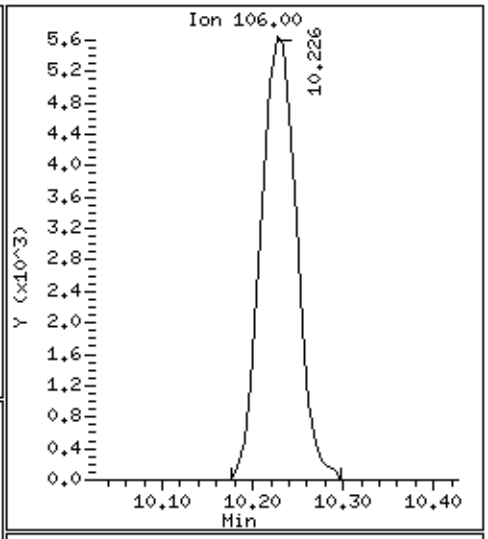
Column phase: RTX-624

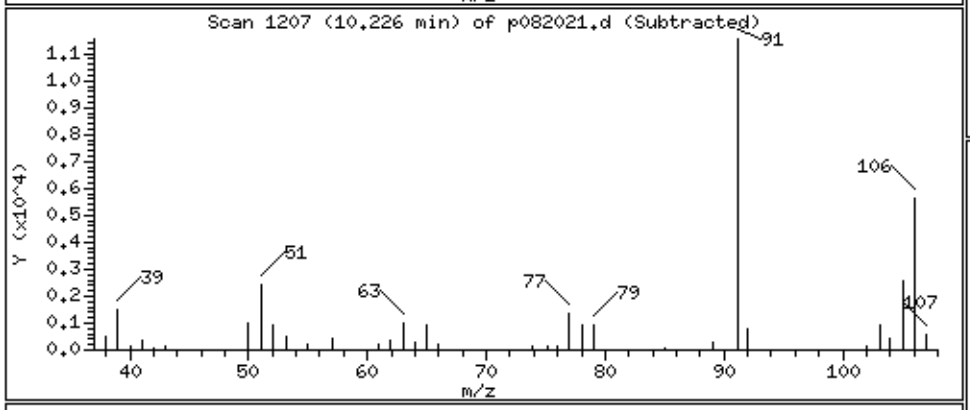
Column diameter: 0.25

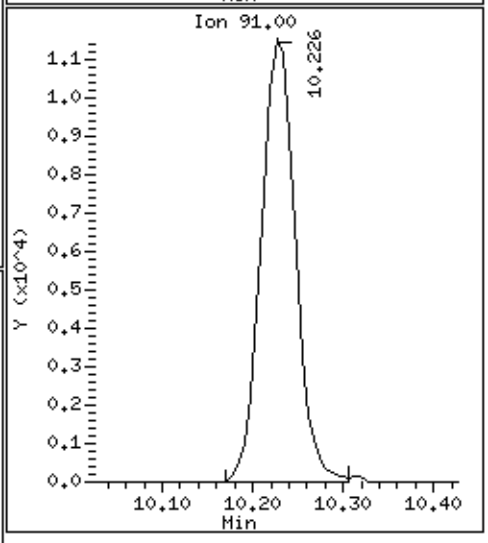
164 o-Xylene

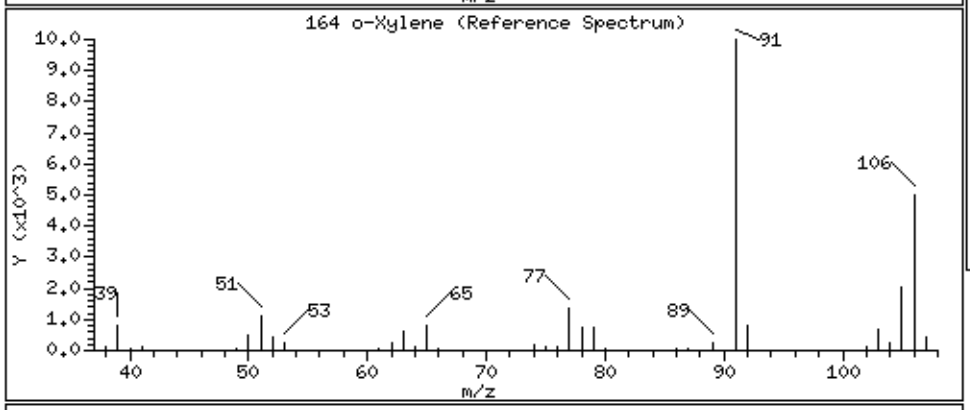
Concentration: 3.235 PPBV

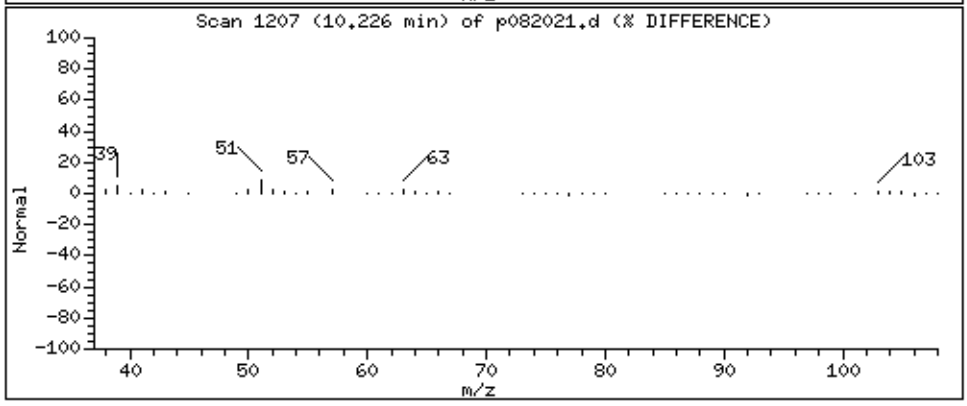












Data File: /chem/msdp.i/20AUG21.b/p082021.d

Page 10

Date : 21-AUG-2021 00:15

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1L1913

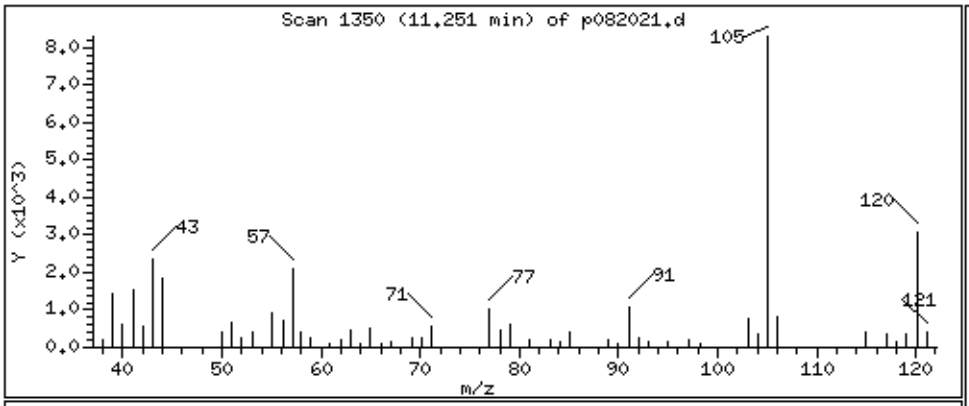
Operator: kk

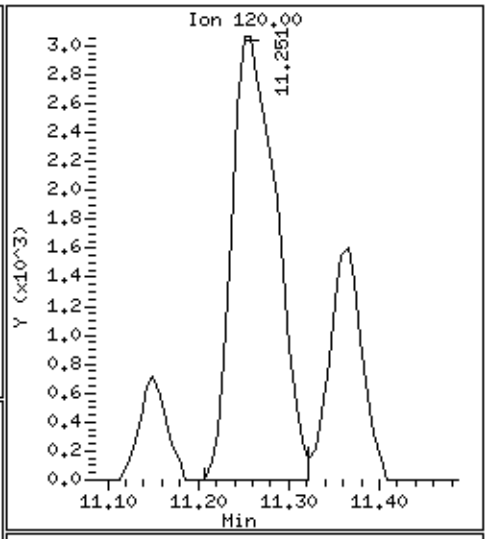
Column phase: RTX-624

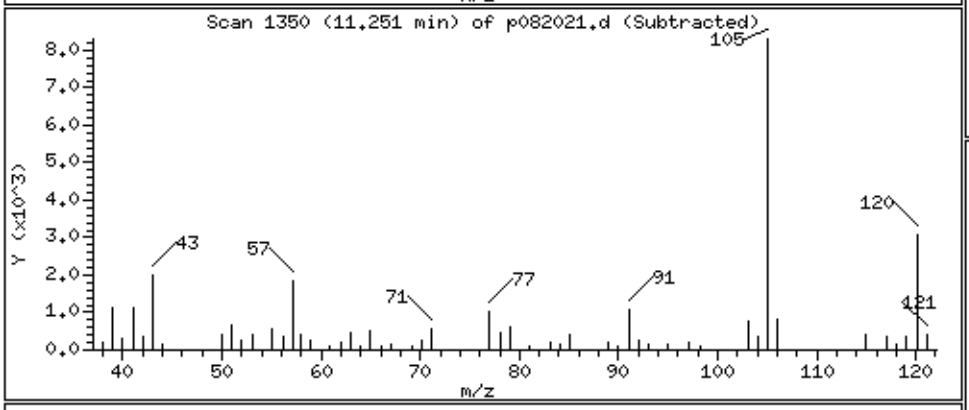
Column diameter: 0.25

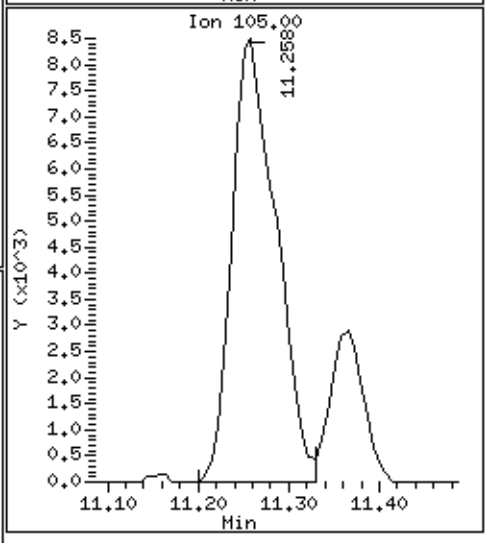
183 4-Ethyltoluene

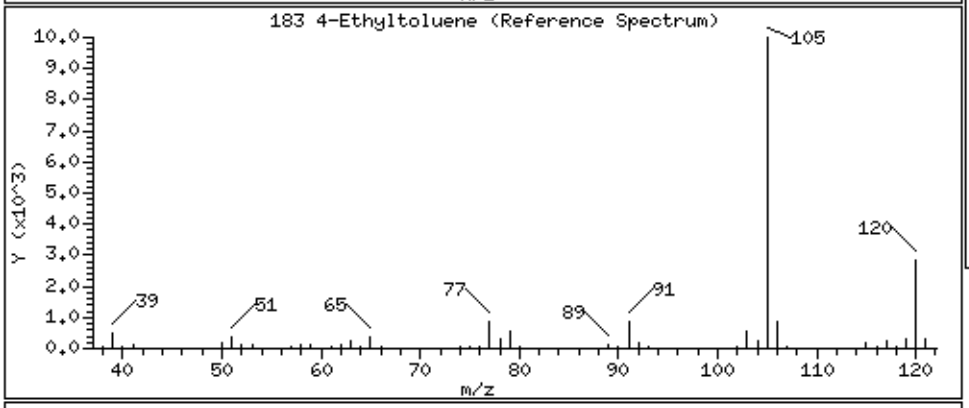
Concentration: 2.155 PPBV

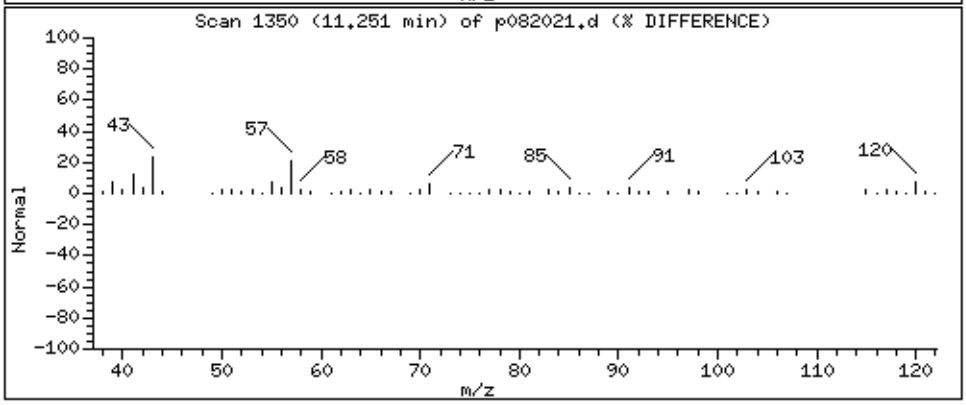












Data File: /chem/msdp.i/20AUG21.b/p082021.d

Page 11

Date : 21-AUG-2021 00:15

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1L1913

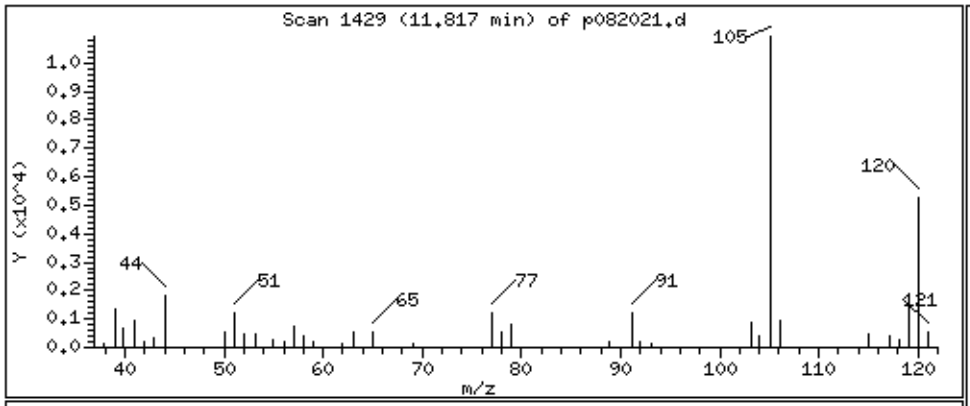
Operator: kk

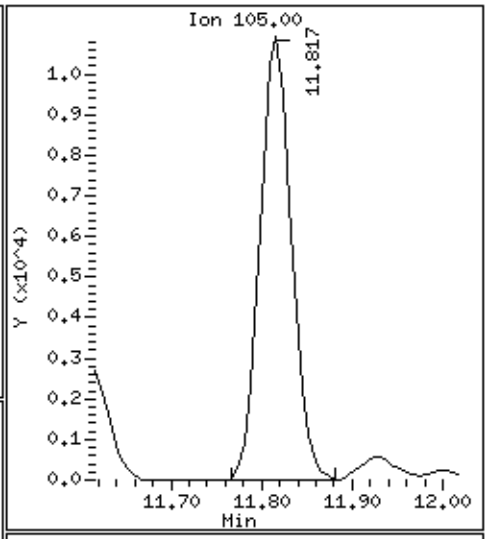
Column phase: RTX-624

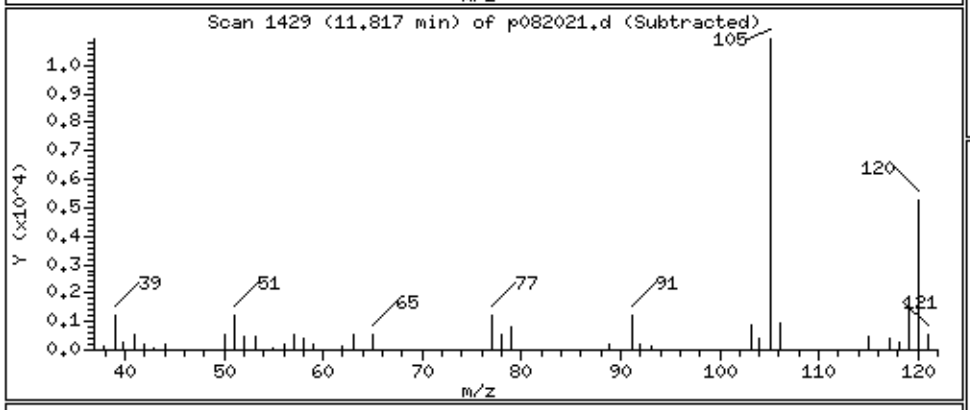
Column diameter: 0.25

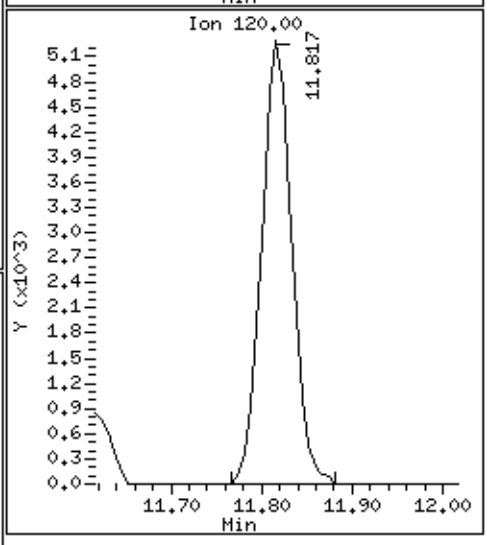
190 1,2,4-Trimethylbenzene

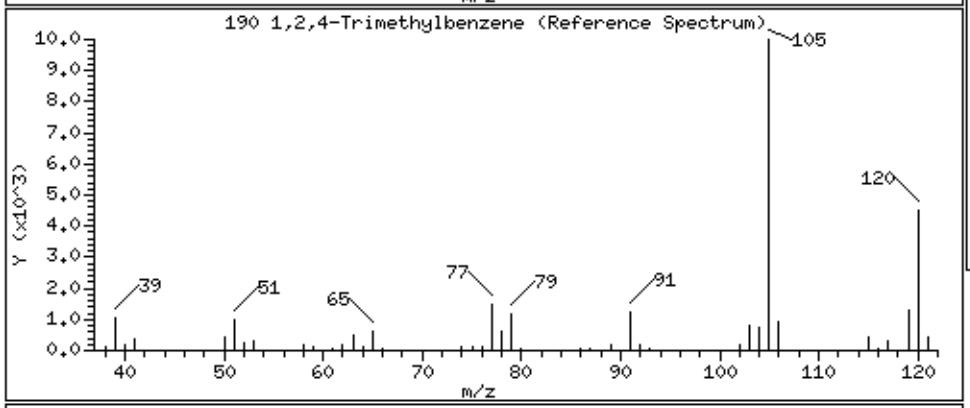
Concentration: 2.088 PPBV

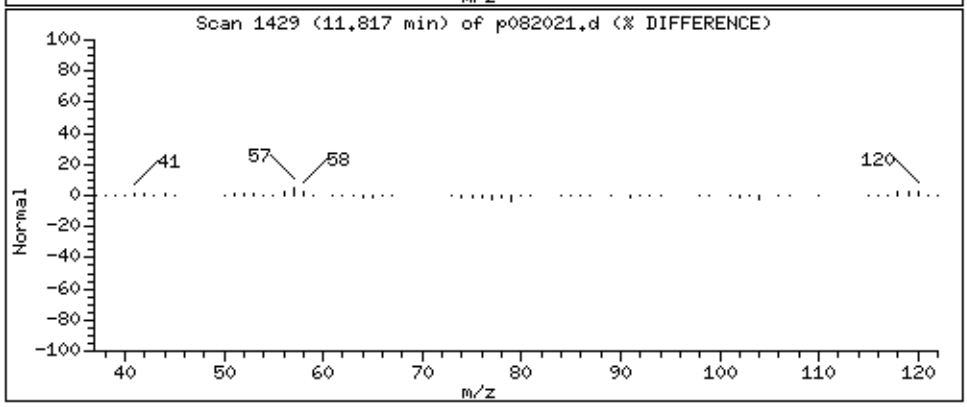












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Client Sample ID: SG-VW20A-03

Lab ID#: 2108390-13A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p082023**	**Date of Collection:**	**8/17/21 7:07:00 AM**
Dil. Factor:	**1.98**	**Date of Analysis:**	**8/21/21 01:14 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1,2-Tetrachloroethane	4.0	Not Detected	27	Not Detected
1,1,1-Trichloroethane	0.99	Not Detected	5.4	Not Detected
1,1,2,2-Tetrachloroethane	0.99	Not Detected	6.8	Not Detected
1,1,2-Trichloroethane	0.99	Not Detected	5.4	Not Detected
1,1-Dichloroethane	0.99	Not Detected	4.0	Not Detected
1,1-Dichloroethene	0.99	Not Detected	3.9	Not Detected
1,1-Difluoroethane	4.0	Not Detected	11	Not Detected
1,2,3-Trichloropropane	4.0	Not Detected	24	Not Detected
1,2,4-Trichlorobenzene	4.0	Not Detected	29	Not Detected
1,2,4-Trimethylbenzene	0.99	1.6	4.9	7.7
1,2-Dibromo-3-chloropropane	4.0	Not Detected	38	Not Detected
1,2-Dibromoethane (EDB)	0.99	Not Detected	7.6	Not Detected
1,2-Dichlorobenzene	0.99	Not Detected	6.0	Not Detected
1,2-Dichloroethane	0.99	Not Detected	4.0	Not Detected
1,2-Dichloropropane	0.99	Not Detected	4.6	Not Detected
1,3,5-Trimethylbenzene	0.99	Not Detected	4.9	Not Detected
1,3-Butadiene	0.99	Not Detected	2.2	Not Detected
1,3-Dichlorobenzene	0.99	Not Detected	6.0	Not Detected
1,4-Dichlorobenzene	0.99	Not Detected	6.0	Not Detected
1,4-Dioxane	4.0	Not Detected	14	Not Detected
2,2,4-Trimethylpentane	0.99	Not Detected	4.6	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.0	Not Detected	12	Not Detected
2-Hexanone	4.0	Not Detected	16	Not Detected
2-Propanol	4.0	Not Detected	9.7	Not Detected
3-Chloropropene	4.0	Not Detected	12	Not Detected
4-Ethyltoluene	0.99	1.5	4.9	7.3
4-Methyl-2-pentanone	0.99	Not Detected	4.0	Not Detected
Acetone	9.9	Not Detected	24	Not Detected
Acrolein	4.0	Not Detected	9.1	Not Detected
Acrylonitrile	4.0	Not Detected	8.6	Not Detected
alpha-Chlorotoluene	0.99	Not Detected	5.1	Not Detected
Benzene	0.99	Not Detected	3.2	Not Detected
Bromodichloromethane	0.99	Not Detected	6.6	Not Detected
Bromoform	0.99	Not Detected	10	Not Detected
Bromomethane	9.9	Not Detected	38	Not Detected
Carbon Disulfide	4.0	Not Detected	12	Not Detected
Carbon Tetrachloride	0.99	Not Detected	6.2	Not Detected
Chlorobenzene	0.99	Not Detected	4.6	Not Detected
Chloroethane	4.0	Not Detected	10	Not Detected
Chloroform	0.99	Not Detected	4.8	Not Detected
Chloromethane	9.9	Not Detected	20	Not Detected
cis-1,2-Dichloroethene	0.99	Not Detected	3.9	Not Detected

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Client Sample ID: SG-VW20A-03

Lab ID#: 2108390-13A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p082023**	**Date of Collection:**	**8/17/21 7:07:00 AM**
Dil. Factor:	**1.98**	**Date of Analysis:**	**8/21/21 01:14 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,3-Dichloropropene	0.99	Not Detected	4.5	Not Detected
Cumene	0.99	Not Detected	4.9	Not Detected
Cyclohexane	0.99	1.0	3.4	3.4
Dibromochloromethane	0.99	Not Detected	8.4	Not Detected
Dibromomethane	4.0	Not Detected	28	Not Detected
Ethanol	9.9	11	19	22
Ethyl Acetate	4.0	Not Detected	14	Not Detected
Ethyl Benzene	0.99	1.6	4.3	7.0
Ethyl-tert-butyl ether	4.0	Not Detected	16	Not Detected
Freon 11	0.99	Not Detected	5.6	Not Detected
Freon 12	0.99	Not Detected	4.9	Not Detected
Freon 113	0.99	Not Detected	7.6	Not Detected
Freon 114	0.99	Not Detected	6.9	Not Detected
Freon 134a	4.0	Not Detected	16	Not Detected
Heptane	0.99	Not Detected	4.0	Not Detected
Hexachlorobutadiene	4.0	Not Detected	42	Not Detected
Hexachloroethane	4.0	Not Detected	38	Not Detected
Hexane	0.99	98	3.5	350
Iodomethane	9.9	Not Detected	57	Not Detected
Isopropyl ether	4.0	Not Detected	16	Not Detected
m,p-Xylene	0.99	6.5	4.3	28
Methyl tert-butyl ether	4.0	Not Detected	14	Not Detected
Methylene Chloride	9.9	Not Detected	34	Not Detected
Naphthalene	2.0	Not Detected	10	Not Detected
o-Xylene	0.99	2.2	4.3	9.7
Propylbenzene	0.99	Not Detected	4.9	Not Detected
Propylene	4.0	Not Detected	6.8	Not Detected
Styrene	0.99	Not Detected	4.2	Not Detected
tert-Amyl methyl ether	4.0	Not Detected	16	Not Detected
tert-Butyl alcohol	4.0	Not Detected	12	Not Detected
Tetrachloroethene	0.99	4.9	6.7	33
Tetrahydrofuran	0.99	Not Detected	2.9	Not Detected
Toluene	0.99	5.4	3.7	20
TPH ref. to Gasoline (MW=100)	99	180	400	740
trans-1,2-Dichloroethene	0.99	Not Detected	3.9	Not Detected
trans-1,3-Dichloropropene	0.99	Not Detected	4.5	Not Detected
Trichloroethene	0.99	Not Detected	5.3	Not Detected
Vinyl Acetate	4.0	Not Detected	14	Not Detected
Vinyl Bromide	4.0	Not Detected	17	Not Detected
Vinyl Chloride	0.99	Not Detected	2.5	Not Detected

Container Type: 1 Liter Summa Canister

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Client Sample ID: SG-VW20A-03

Lab ID#: 2108390-13A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p082023**	**Date of Collection:**	**8/17/21 7:07:00 AM**
Dil. Factor:	**1.98**	**Date of Analysis:**	**8/21/21 01:14 AM**

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	108	70-130
4-Bromofluorobenzene	105	70-130

US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/20AUG21.b/p082023.d
Lab Smp Id: 2108390-13A
Inj Date : 21-AUG-2021 01:14
Operator : kk Inst ID: msdp.i
Smp Info : 200ml 3033
Misc Info : 4.5 Hg->10 psi
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/20AUG21.b/p21q0519a.m
Meth Date : 20-Aug-2021 12:59 p5fl Quant Type: ISTD
Cal Date : 19-MAY-2021 19:45 Cal File: p051915.d
Als bottle: 5
Dil Factor: 1.98000
Integrator: HP RTE Compound Sublist: AEC25677.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE		(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 90 Bromochloromethane						CAS #: 74-97-5		
5.785	5.785 (1.000)	130	108090	25.0000			80.00- 120.00	100.00
5.785	5.785 (1.000)	128	81659				48.23- 108.23	75.55
5.785	5.778 (1.000)	49	236558				150.57- 210.57	218.85
* 108 1,4-Difluorobenzene						CAS #: 540-36-3		
6.666	6.659 (1.000)	114	377300	25.0000			80.00- 120.00	100.00
6.666	6.659 (1.000)	88	53123				0.00- 45.71	14.08
* 153 Chlorobenzene-d5						CAS #: 3114-55-4		
9.460	9.460 (1.000)	117	386050	25.0000			80.00- 120.00	100.00
9.460	9.460 (1.000)	82	198290				23.78- 83.78	51.36
$ 104 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
6.315	6.315 (1.092)	65	161238	27.0298	27.030		80.00- 120.00	100.00
6.315	6.315 (1.092)	67	75974				27.21- 87.21	47.12
$ 134 Toluene-d8						CAS #: 2037-26-5		
7.891	7.891 (1.184)	98	414879	25.3224	25.322		80.00- 120.00	100.00
7.891	7.891 (1.184)	70	44750				0.00- 40.44	10.79

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 134 Toluene-d8 (continued)							
7.891	7.891 (1.184)	100	266542			34.95- 94.95	64.25
$ 170 4-Bromofluorobenzene					CAS #: 460-00-4		
10.921	10.921 (1.154)	174	260429	26.2706	26.271	80.00- 120.00	100.00
10.921	10.914 (1.154)	95	297930			95.92- 155.92	114.40
10.921	10.921 (1.154)	176	245220			66.89- 126.89	94.16
39 Ethanol					CAS #: 64-17-5		
3.257	3.242 (0.563)	46	6209	5.79240	11.469	80.00- 120.00	100.00
3.257	3.285 (0.563)	45	17301			511.19- 571.19	278.64
67 Hexane					CAS #: 110-54-3		
4.696	4.697 (0.812)	57	529748	49.7504	98.506	80.00- 120.00	100.00
4.696	4.697 (0.812)	43	421386			37.52- 97.52	79.54
4.696	4.697 (0.812)	86	52916			0.00- 41.48	9.99
94 Cyclohexane					CAS #: 110-82-7		
5.957	5.957 (1.030)	84	3449	0.50726	1.004	80.00- 120.00	100.00
5.964	5.957 (1.031)	56	10385			142.57- 202.57	301.11
5.964	5.957 (1.031)	41	7339			62.09- 122.09	212.78
137 Toluene					CAS #: 108-88-3		
7.956	7.956 (1.193)	91	46411	2.70179	5.350	80.00- 120.00	100.00
7.956	7.956 (1.193)	92	26861			28.38- 88.38	57.88
142 Tetrachloroethene					CAS #: 127-18-4		
8.471	8.464 (0.895)	166	21712	2.46772	4.886	80.00- 120.00	100.00
8.464	8.464 (0.895)	129	17617			47.84- 107.84	81.14
8.464	8.464 (0.895)	131	17215			45.29- 105.29	79.29
155 Ethyl Benzene					CAS #: 100-41-4		
9.567	9.567 (1.011)	106	6505	0.81152	1.607	80.00- 120.00	100.00
9.567	9.567 (1.011)	91	22045			273.74- 333.74	338.89
158 m,p-Xylene					CAS #: 108-38-3		
9.718	9.718 (1.027)	106	33102	3.29724	6.528	80.00- 120.00	100.00
9.718	9.718 (1.027)	91	63664			163.73- 223.73	192.33
164 o-Xylene					CAS #: 95-47-6		
10.226	10.226 (1.081)	106	10895	1.13268	2.243	80.00- 120.00	100.00
10.226	10.226 (1.081)	91	22786			177.45- 237.45	209.15
183 4-Ethyltoluene					CAS #: 622-96-8		
11.258	11.287 (1.190)	120	7349	0.75426	1.493	80.00- 120.00	100.00
11.258	11.287 (1.190)	105	21437			284.55- 344.55	291.68

					CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
RT	EXP RT	(REL RT)	MASS	RESPONSE				
190 1,2,4-Trimethylbenzene						CAS #: 95-63-6		
11.816	11.817	(1.249)	105	19943	0.78764	1.560	80.00- 120.00	100.00
11.816	11.817	(1.249)	120	9393			19.05- 79.05	47.10

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p082023.d
Lab Smp Id: 2108390-13A
Analysis Type: VOA
Quant Type: ISTD
Operator: kk
Method File: /chem/msdp.i/20AUG21.b/p21q0519a.m
Misc Info: 4.5 Hg->10 psi

Calibration Date: 20-AUG-2021
Calibration Time: 11:13
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	109375	65625	153125	108090	-1.17
108 1,4-Difluorobenze	406799	244079	569519	377300	-7.25
153 Chlorobenzene-d5	400841	240505	561177	386050	-3.69

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.79	5.46	6.12	5.79	-0.00
108 1,4-Difluorobenze	6.66	6.33	6.99	6.67	0.11
153 Chlorobenzene-d5	9.46	9.13	9.79	9.46	-0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 24-Aug-2021 11:31

US32TAR1

RECOVERY REPORT

Client Name: Client SDG: 20AUG21
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 2108390-13A
Level: LOW Operator: kk
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT20_new.spk Quant Type: ISTD
Sublist File: AEC25677.sub
Method File: /chem/msdp.i/20AUG21.b/p21q0519a.m
Misc Info: 4.5 Hg->10 psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 104 1,2-Dichloroethan	25.000	27.030	108.12	70-130
$ 134 Toluene-d8	25.000	25.322	101.29	70-130
$ 170 4-Bromofluorobenz	25.000	26.271	105.08	70-130

Data File: /chem/msdp.i/20AUG21.b/p082023.d

Date : 21-AUG-2021 01:14

Client ID:

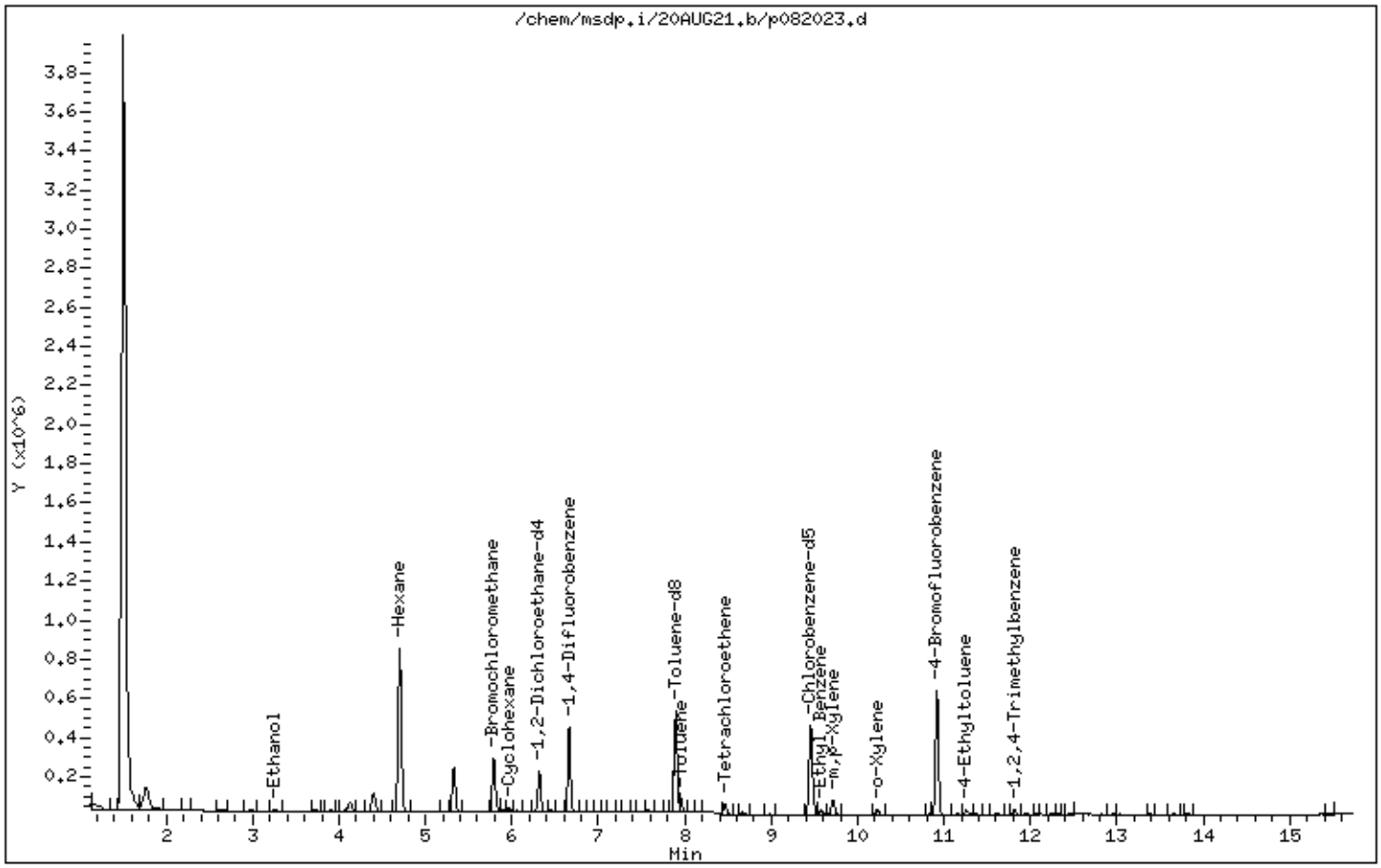
Instrument: msdp.i

Sample Info: 200ml 3033

Operator: kk

Column phase: RTX-624

Column diameter: 0.25



Data File: /chem/msdp.i/20AUG21.b/p082023.d

Date : 21-AUG-2021 01:14

Client ID:

Instrument: msdp.i

Sample Info: 200ml 3033

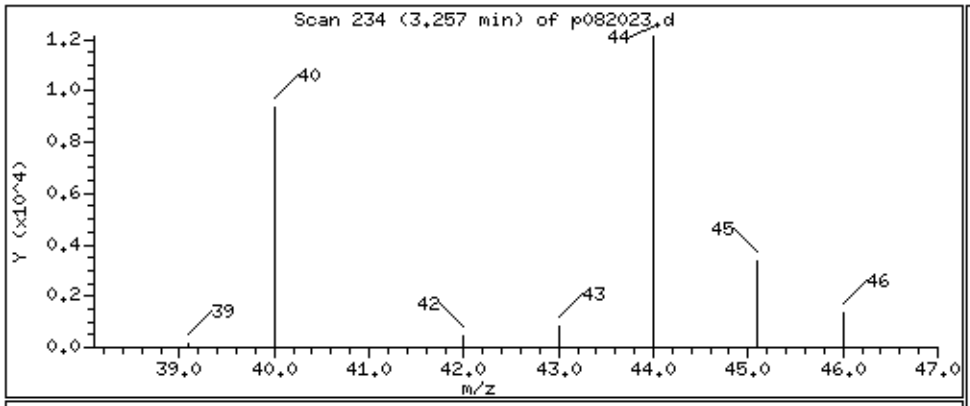
Operator: kk

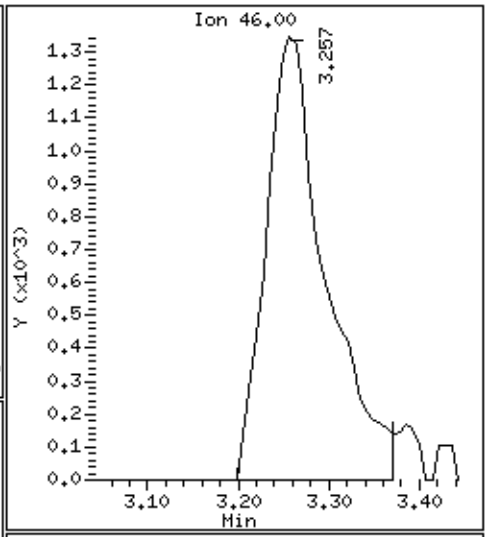
Column phase: RTX-624

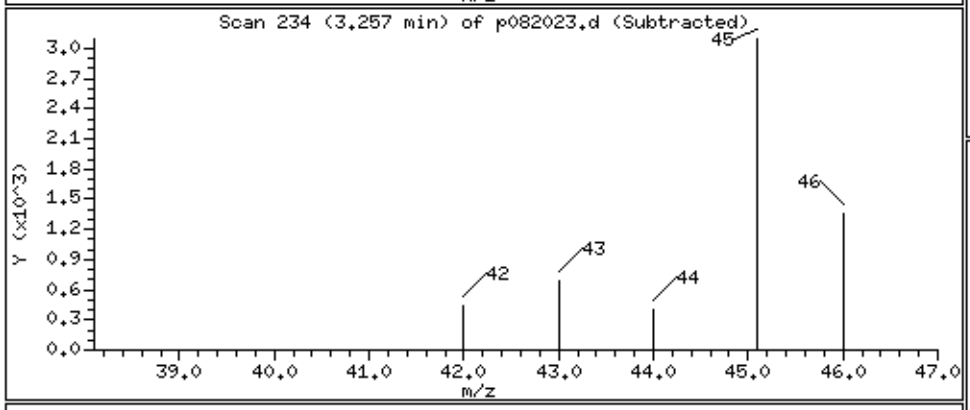
Column diameter: 0.25

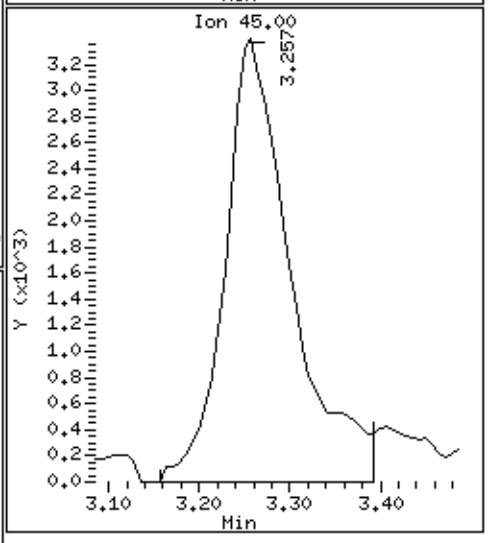
39 Ethanol

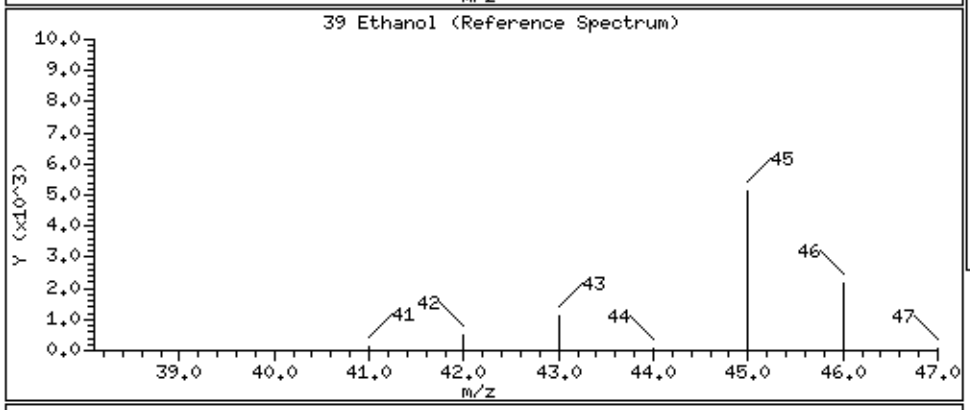
Concentration: 11.469 PPBV

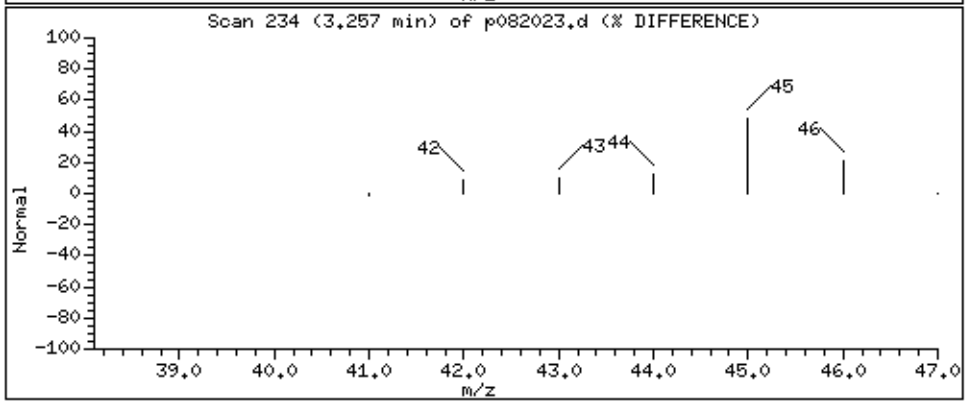












Data File: /chem/msdp.i/20AUG21.b/p082023.d

Date : 21-AUG-2021 01:14

Client ID:

Instrument: msdp.i

Sample Info: 200ml 3033

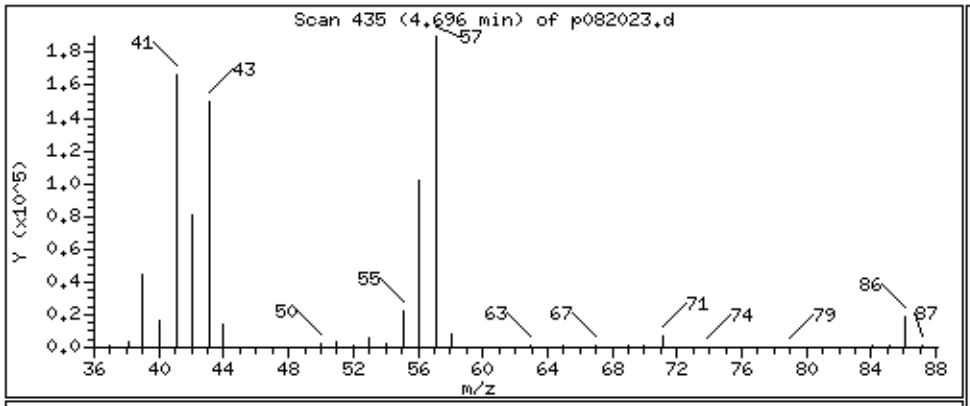
Operator: kk

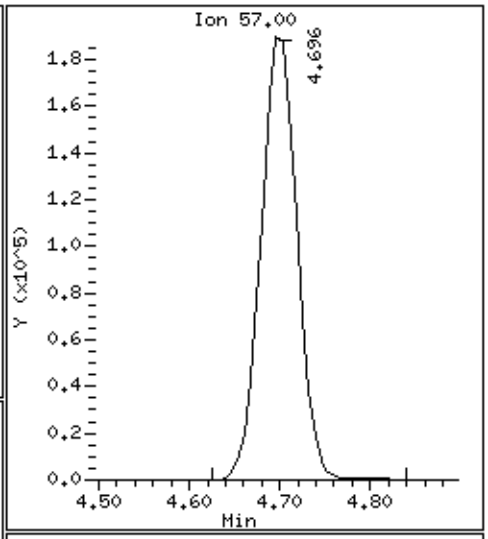
Column phase: RTX-624

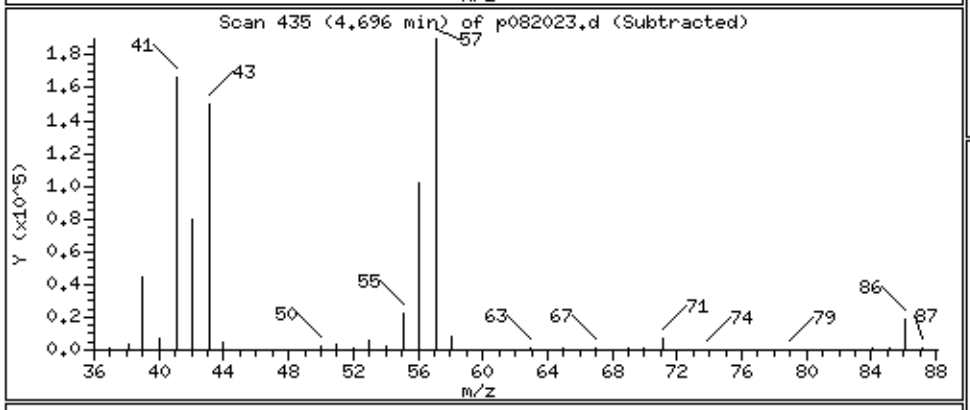
Column diameter: 0.25

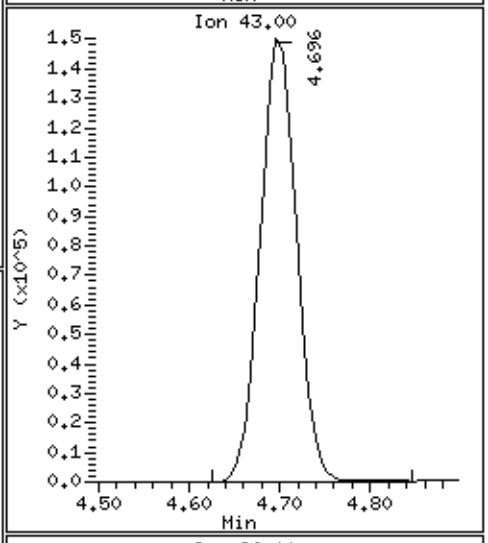
67 Hexane

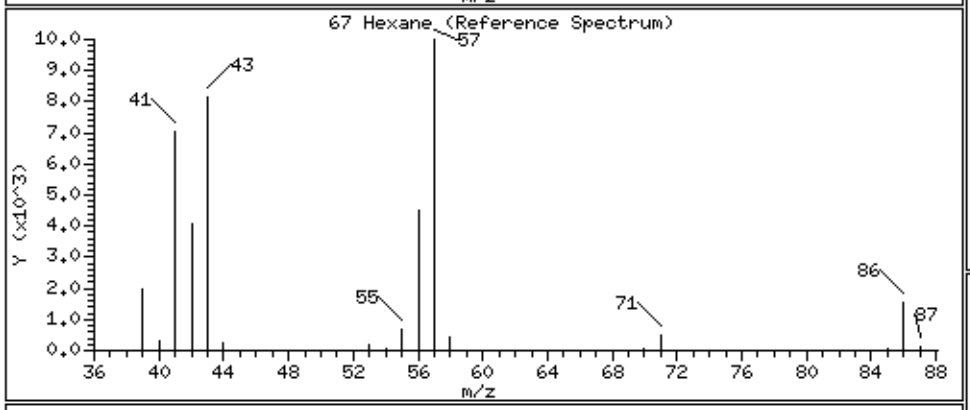
Concentration: 98.506 PPBV

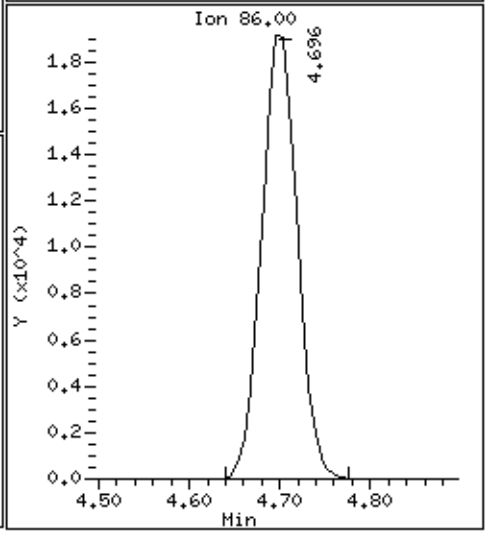


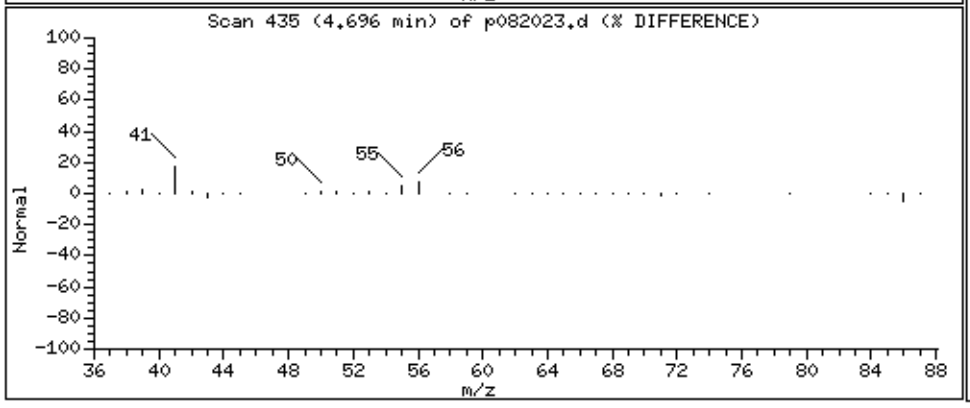












Data File: /chem/msdp.i/20AUG21.b/p082023.d

Date : 21-AUG-2021 01:14

Client ID:

Instrument: msdp.i

Sample Info: 200ml 3033

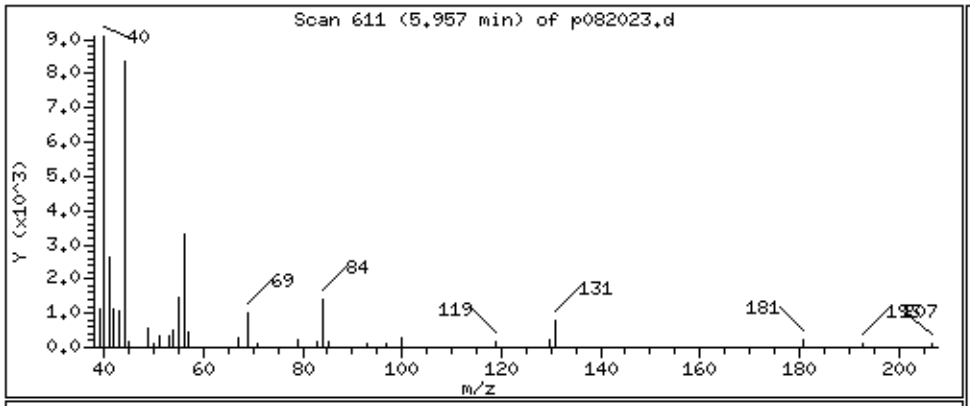
Operator: kk

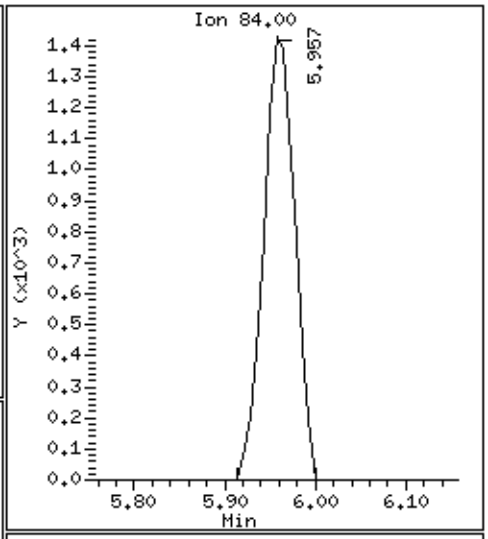
Column phase: RTX-624

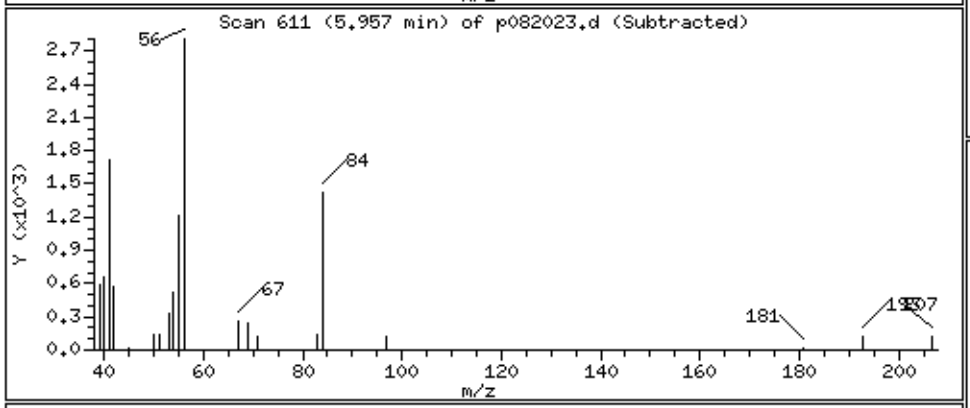
Column diameter: 0.25

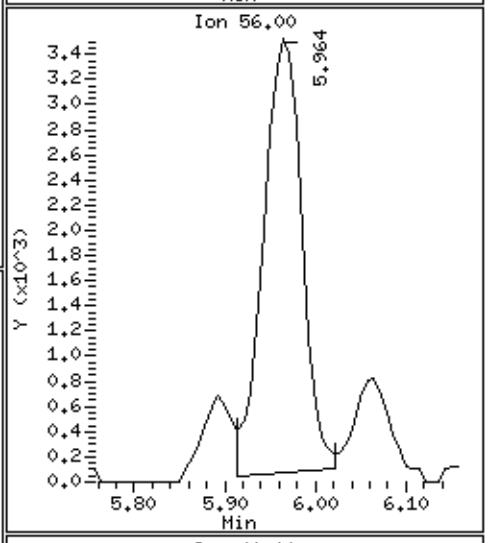
94 Cyclohexane

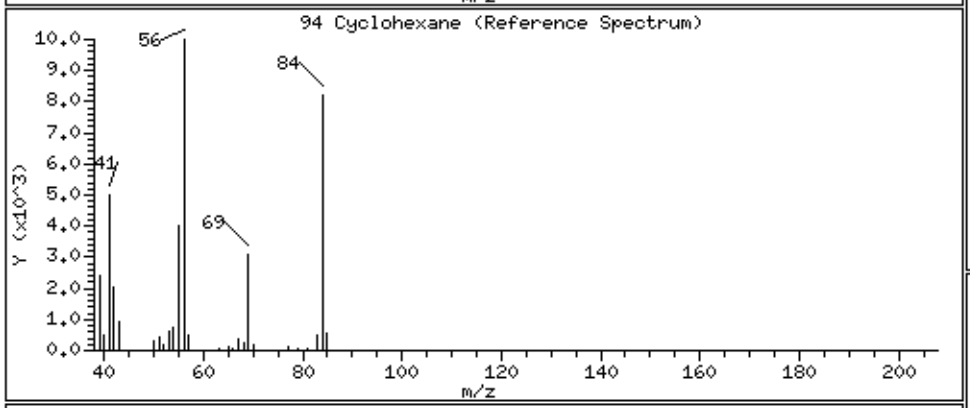
Concentration: 1.004 PPBV

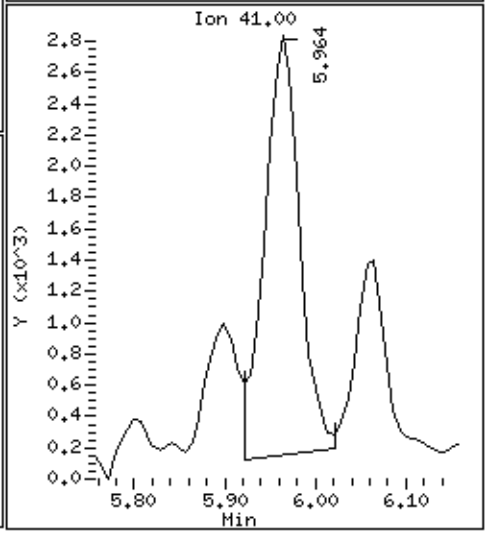


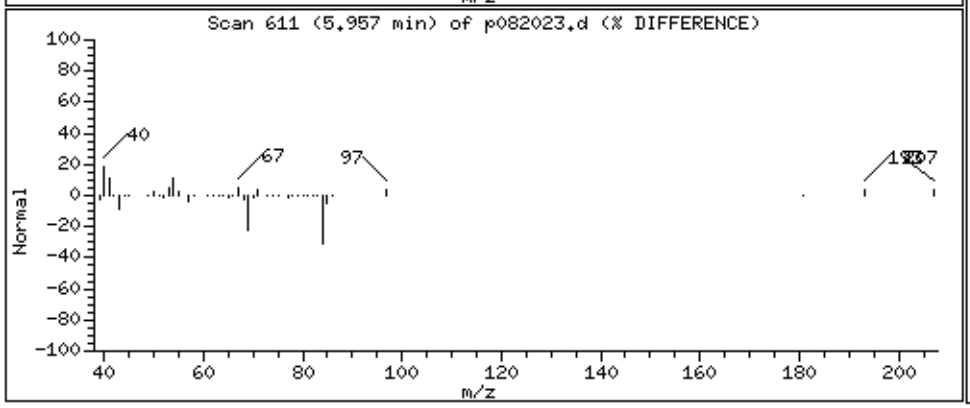












Data File: /chem/msdp.i/20AUG21.b/p082023.d

Date : 21-AUG-2021 01:14

Client ID:

Instrument: msdp.i

Sample Info: 200ml 3033

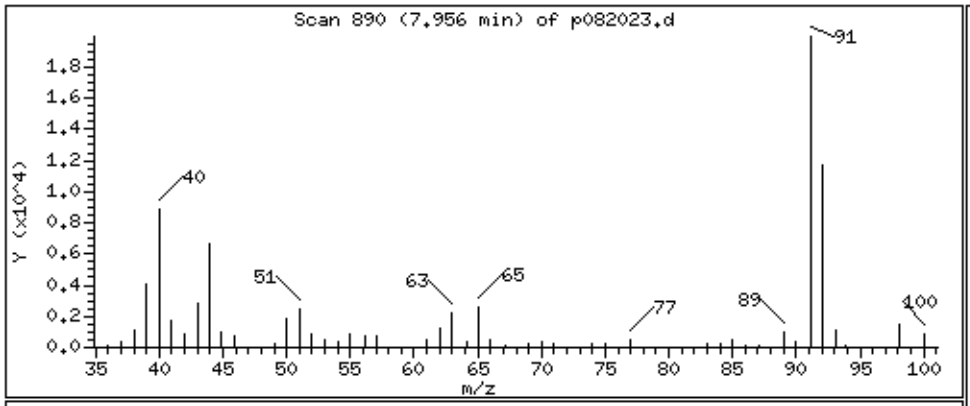
Operator: kk

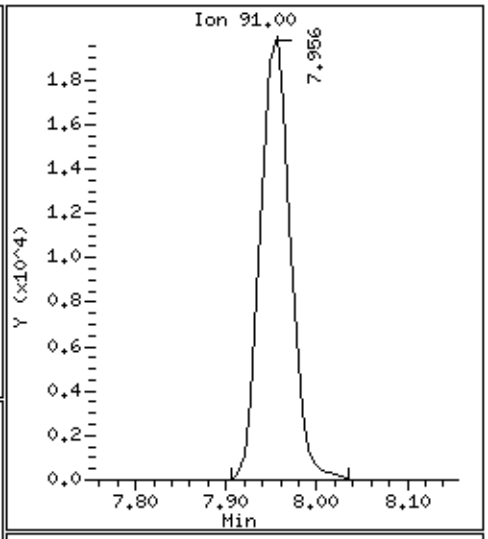
Column phase: RTX-624

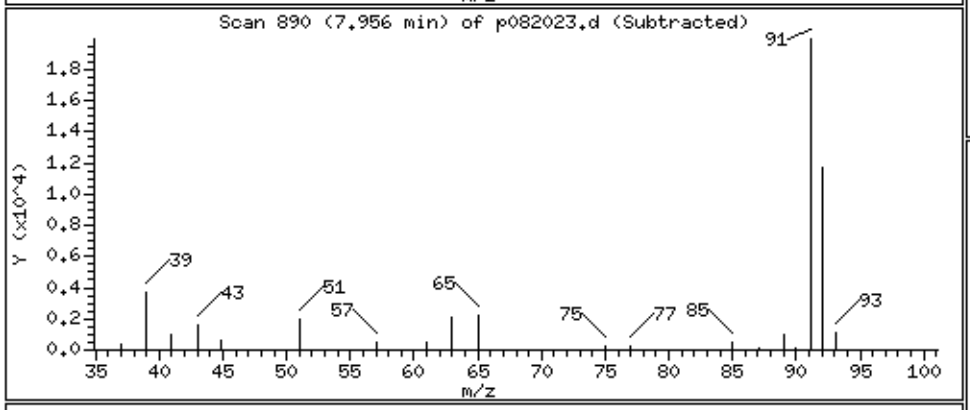
Column diameter: 0.25

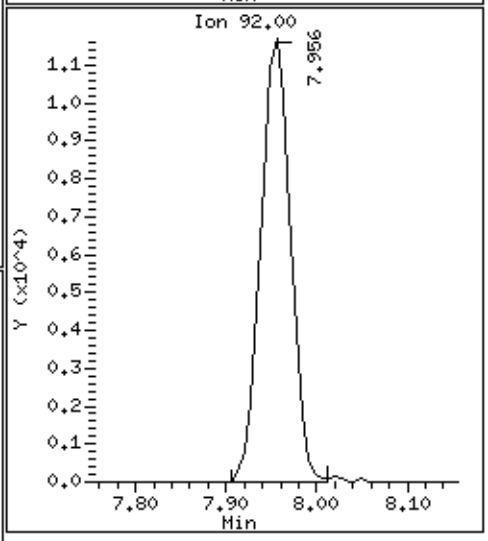
137 Toluene

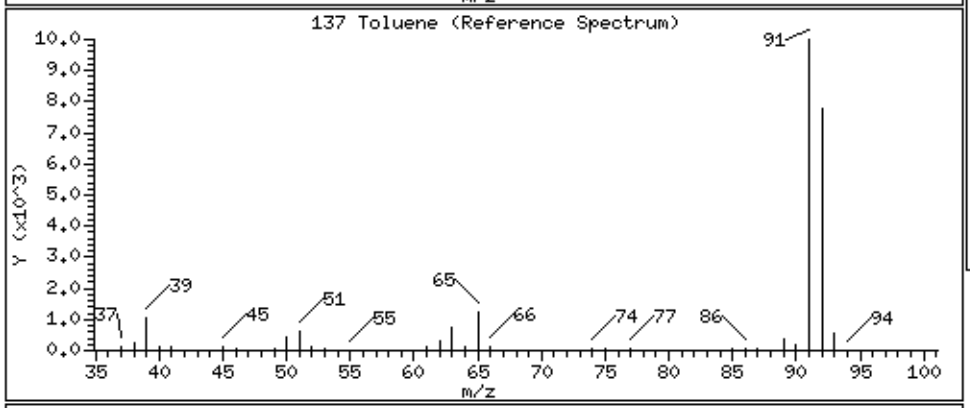
Concentration: 5.350 PPBV

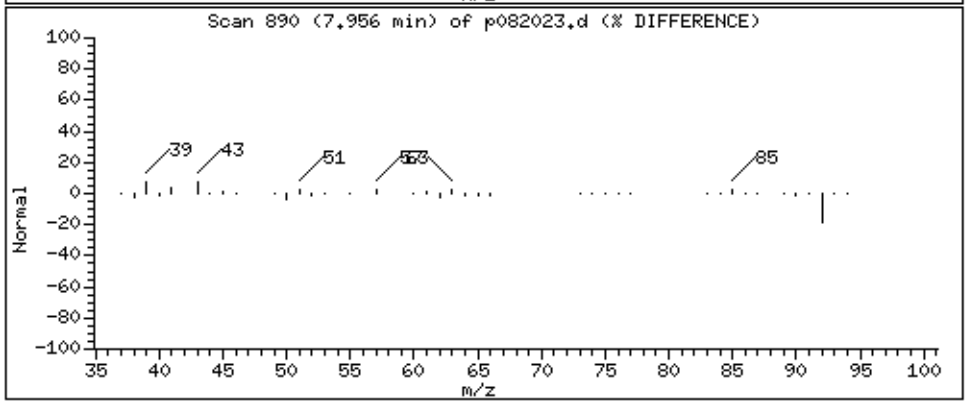












Data File: /chem/msdp.i/20AUG21.b/p082023.d

Date : 21-AUG-2021 01:14

Client ID:

Instrument: msdp.i

Sample Info: 200ml 3033

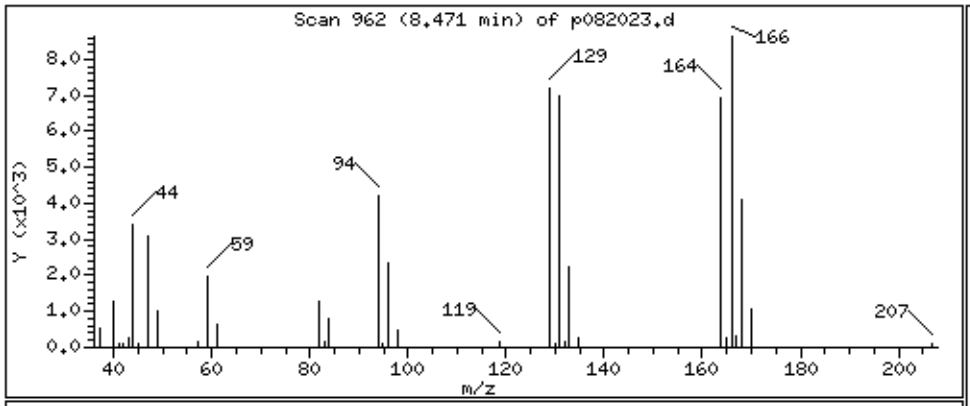
Operator: kk

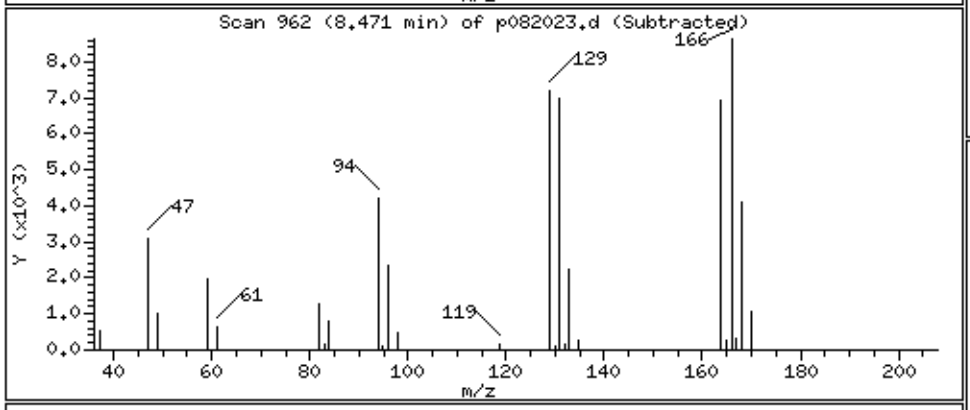
Column phase: RTX-624

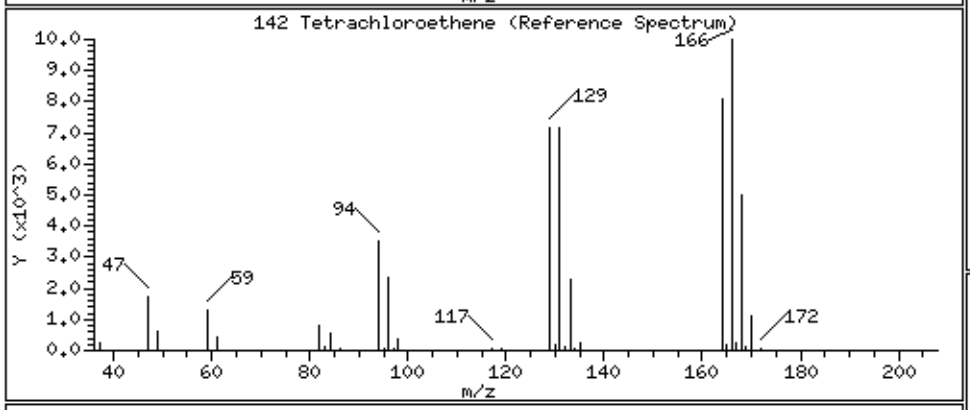
Column diameter: 0.25

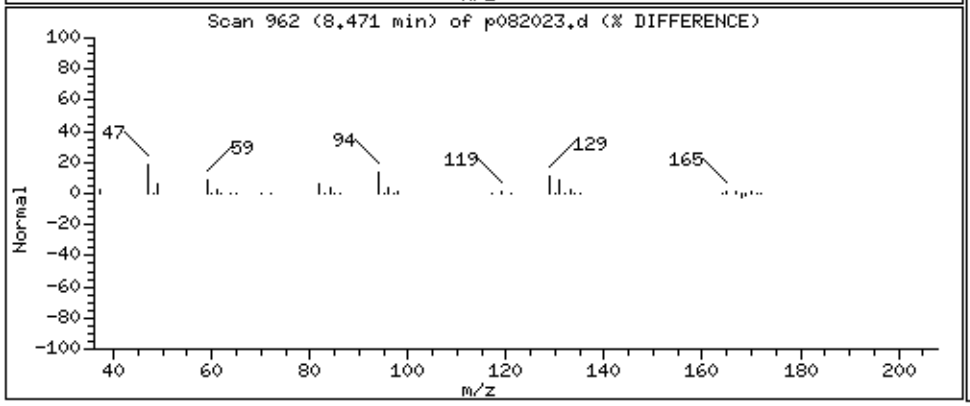
142 Tetrachloroethene

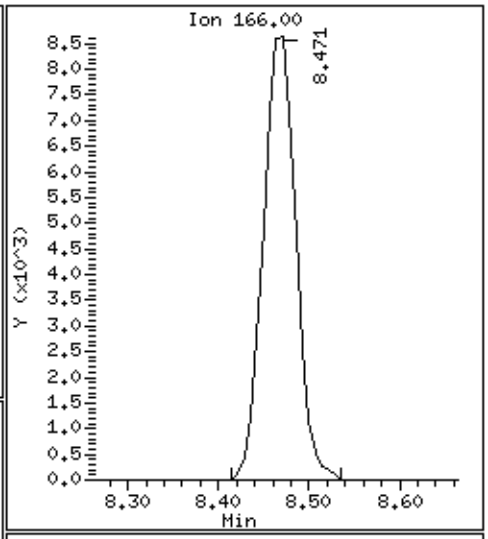
Concentration: 4.886 PPBV

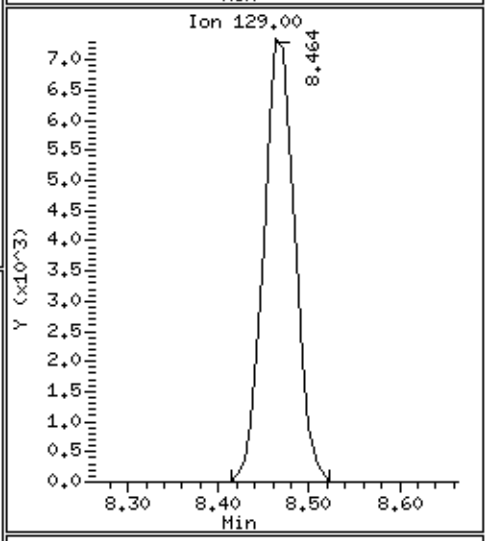


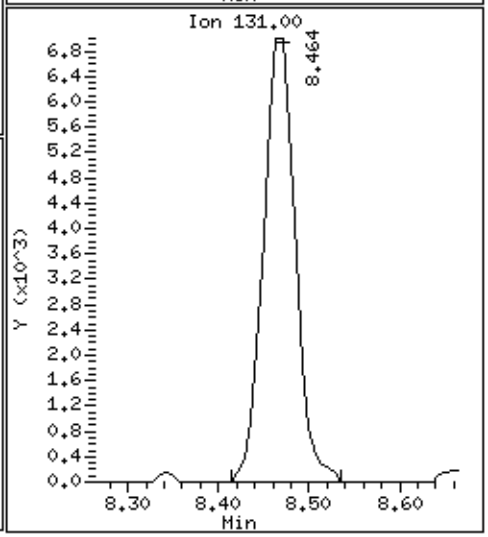












Data File: /chem/msdp.i/20AUG21.b/p082023.d

Date : 21-AUG-2021 01:14

Client ID:

Instrument: msdp.i

Sample Info: 200ml 3033

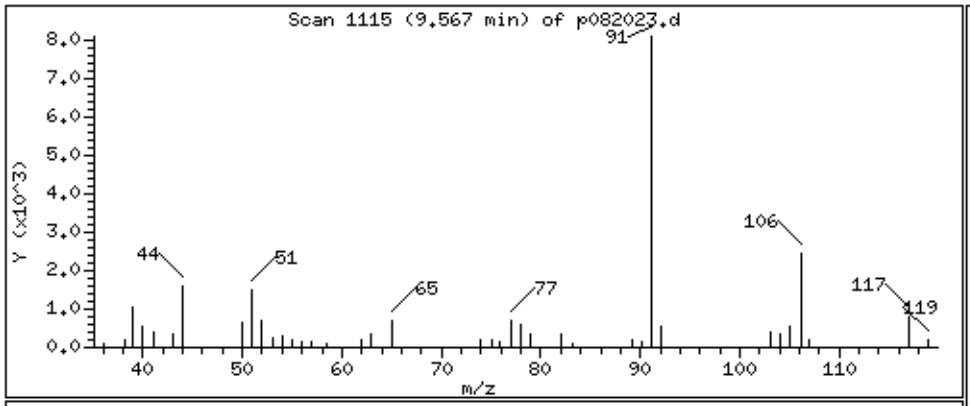
Operator: kk

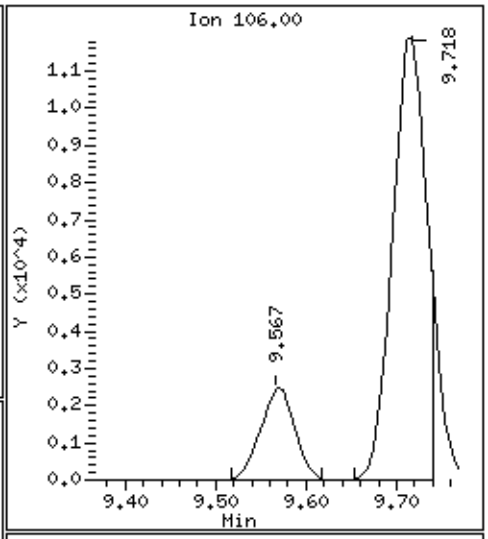
Column phase: RTX-624

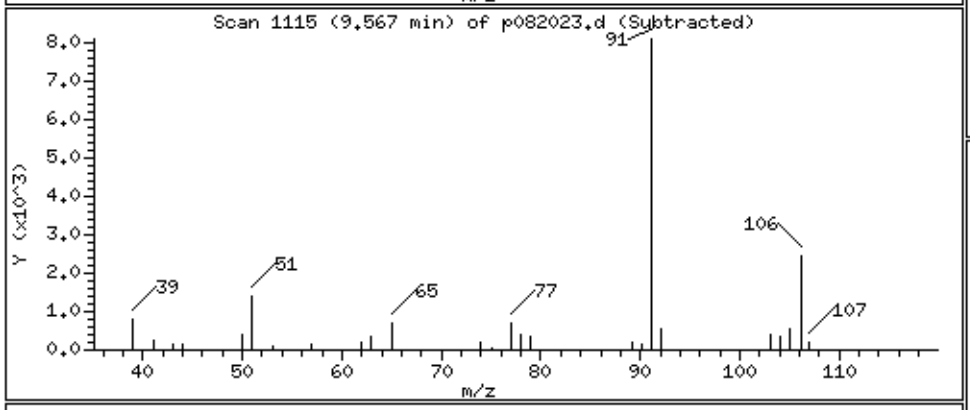
Column diameter: 0.25

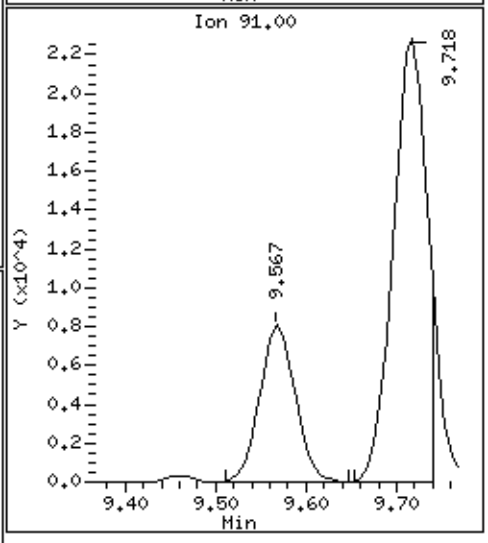
155 Ethyl Benzene

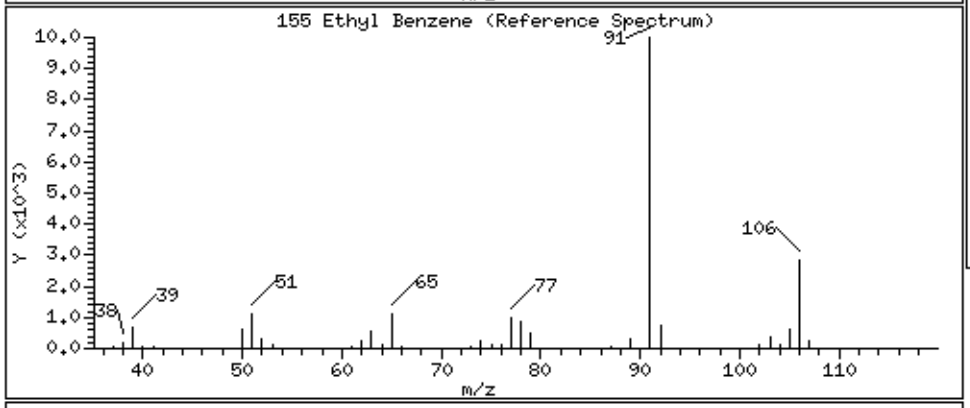
Concentration: 1.607 PPBV

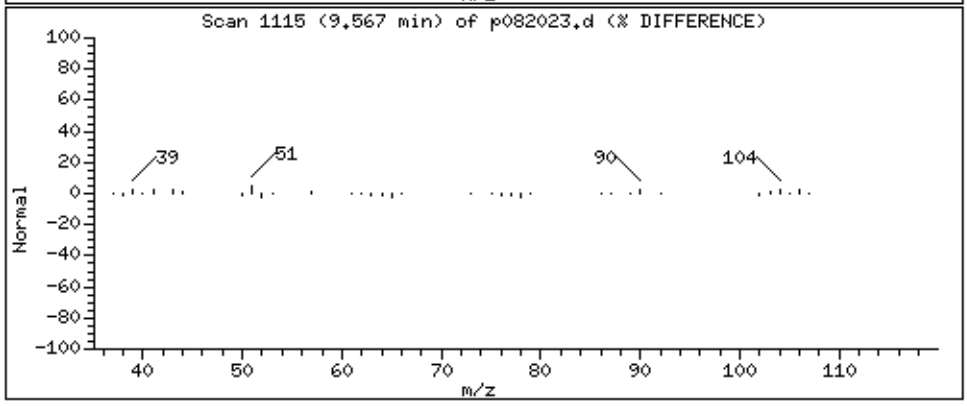












Data File: /chem/msdp.i/20AUG21.b/p082023.d

Date : 21-AUG-2021 01:14

Client ID:

Instrument: msdp.i

Sample Info: 200ml 3033

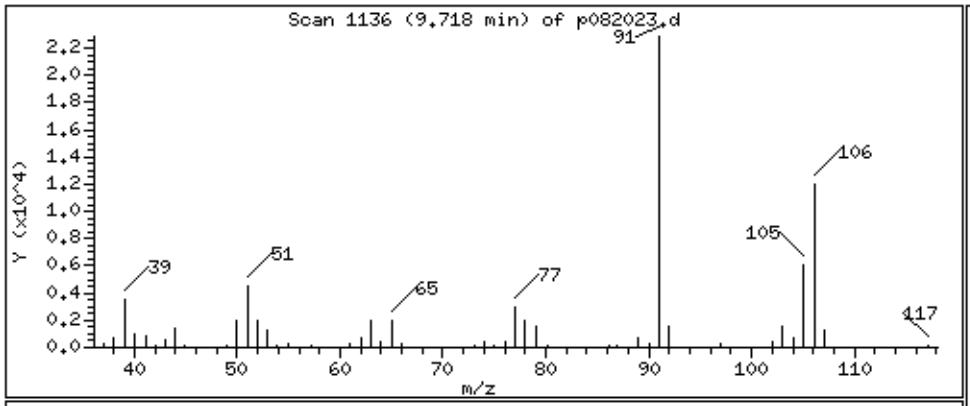
Operator: kk

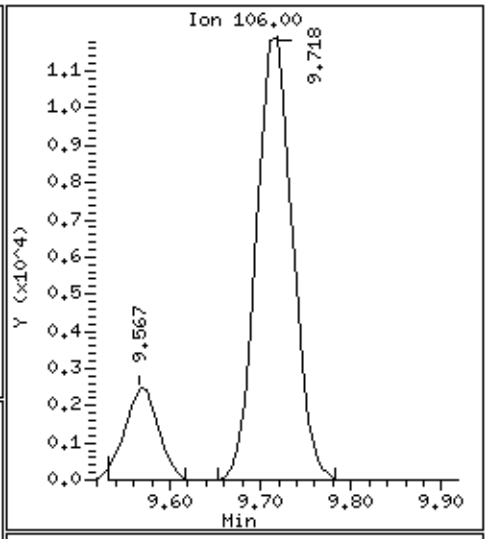
Column phase: RTX-624

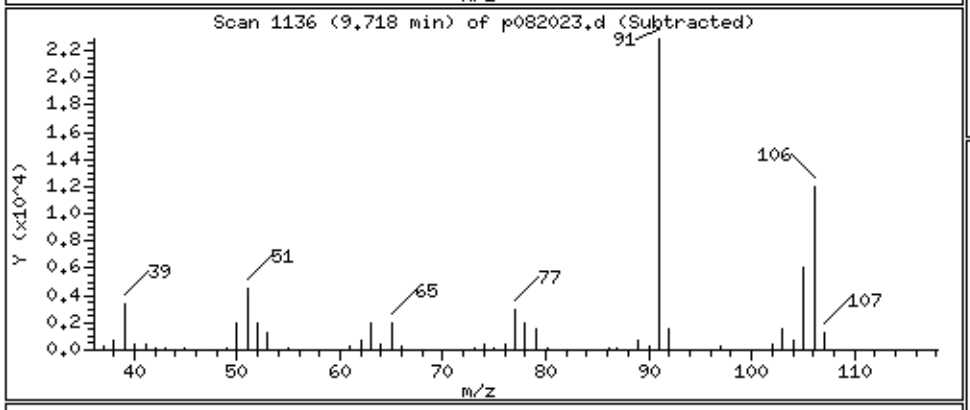
Column diameter: 0.25

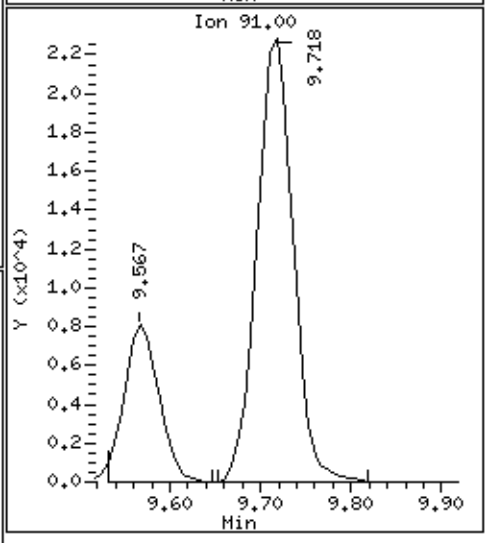
158 m,p-Xylene

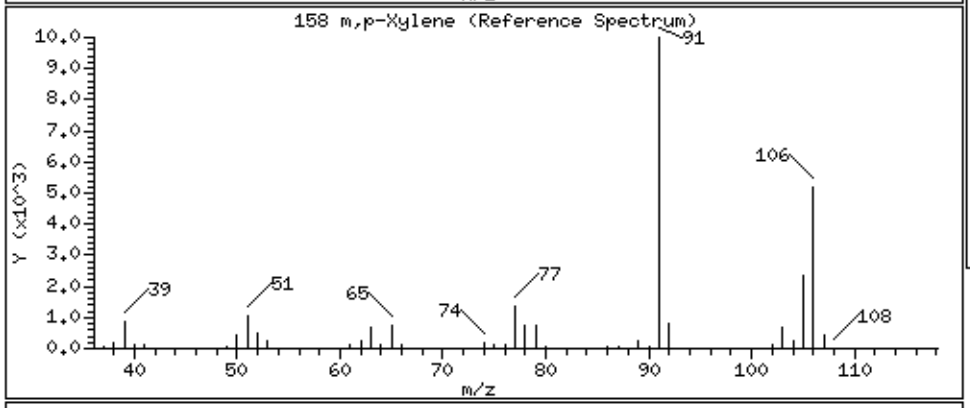
Concentration: 6.528 PPBV

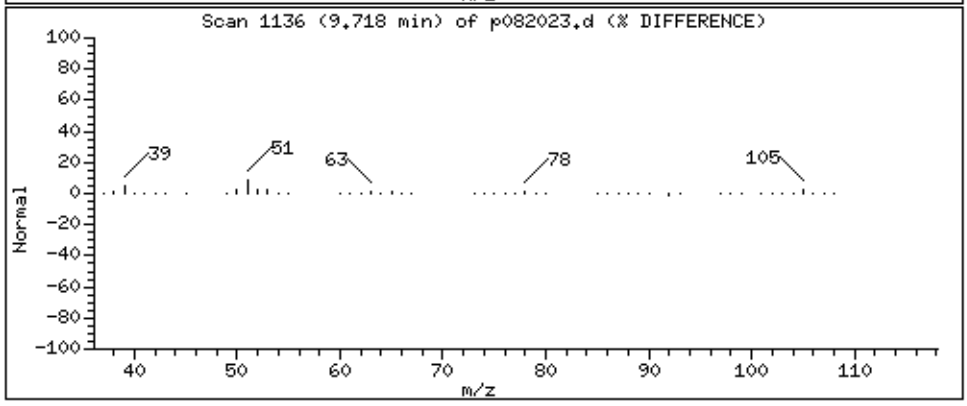












Data File: /chem/msdp.i/20AUG21.b/p082023.d

Date : 21-AUG-2021 01:14

Client ID:

Instrument: msdp.i

Sample Info: 200ml 3033

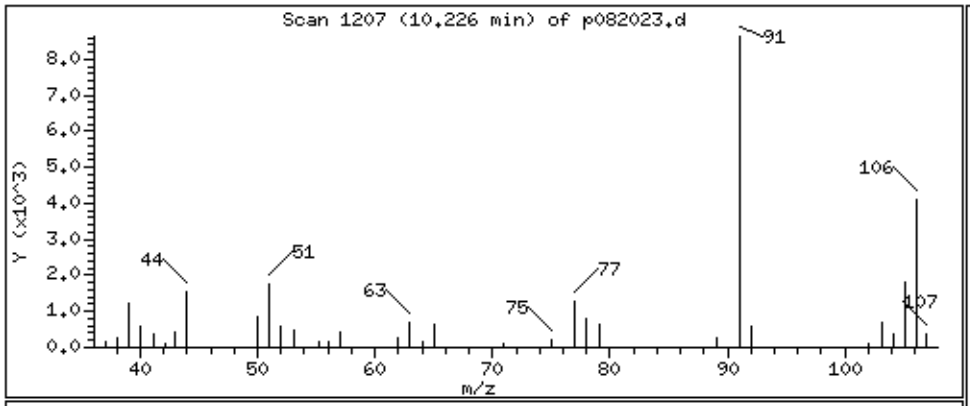
Operator: kk

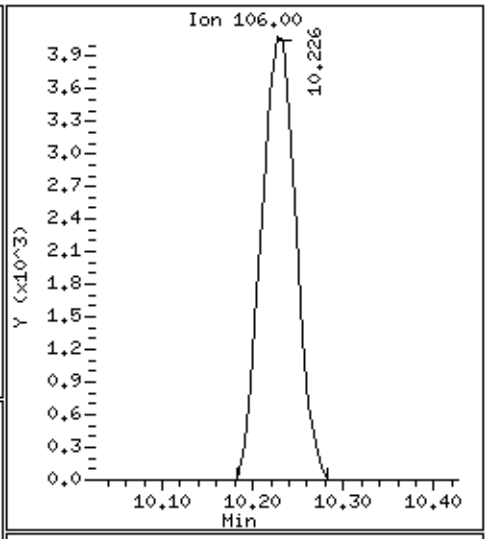
Column phase: RTX-624

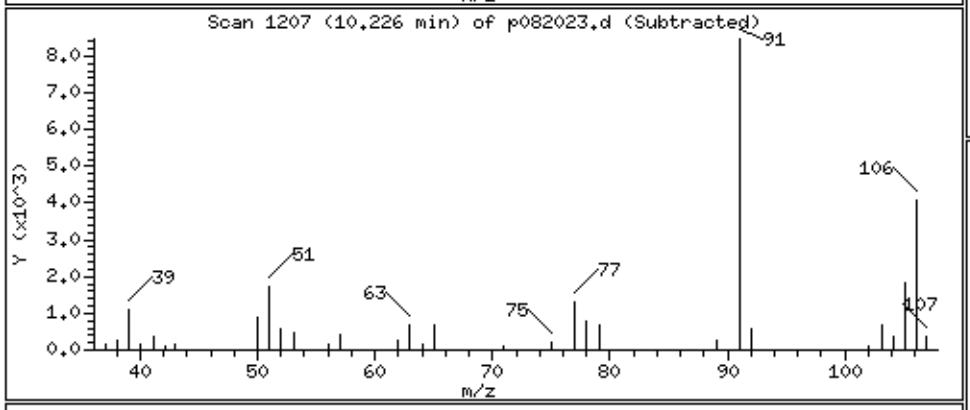
Column diameter: 0.25

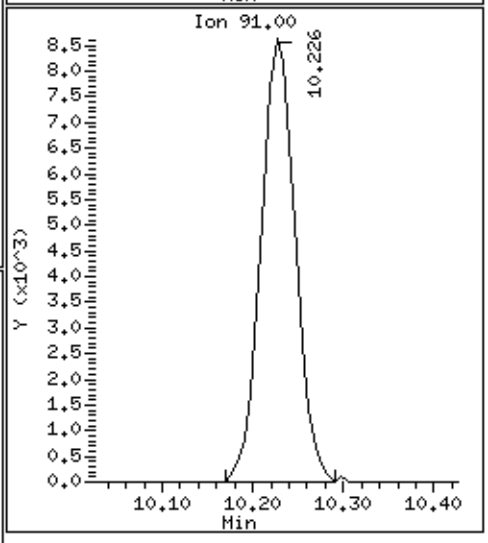
164 o-Xylene

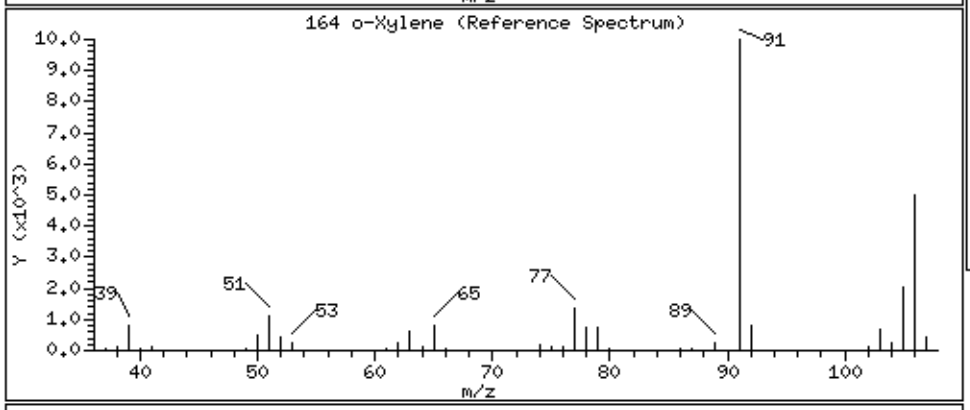
Concentration: 2.243 PPBV

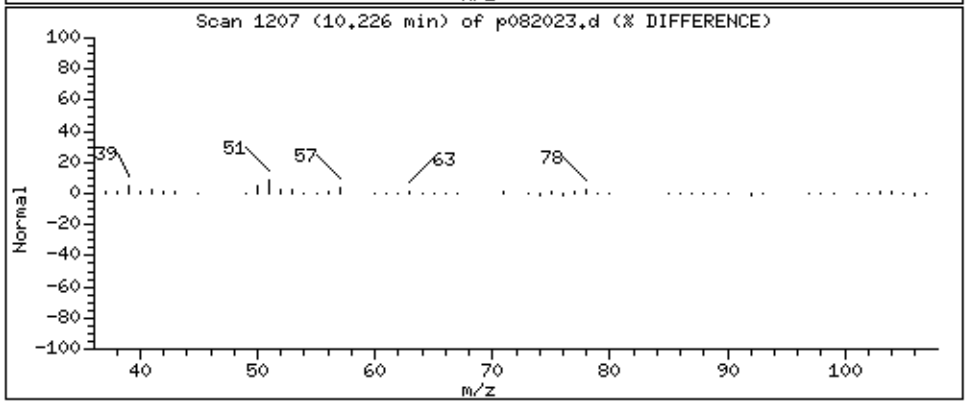












Data File: /chem/msdp.i/20AUG21.b/p082023.d

Date : 21-AUG-2021 01:14

Client ID:

Instrument: msdp.i

Sample Info: 200ml 3033

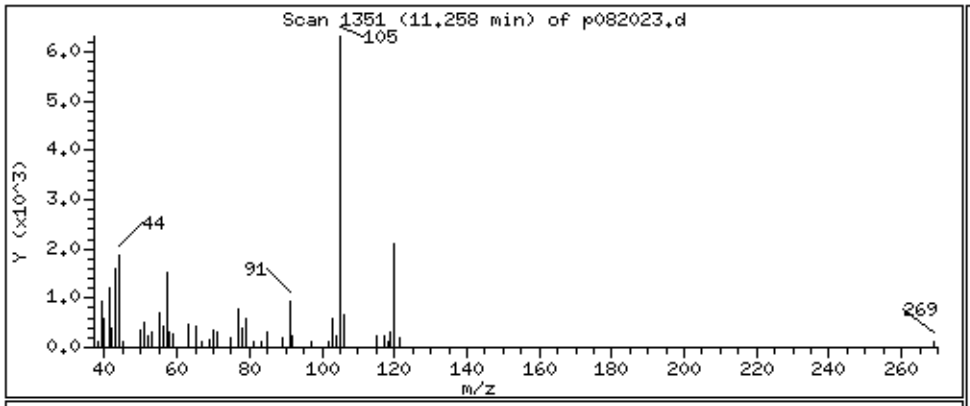
Operator: kk

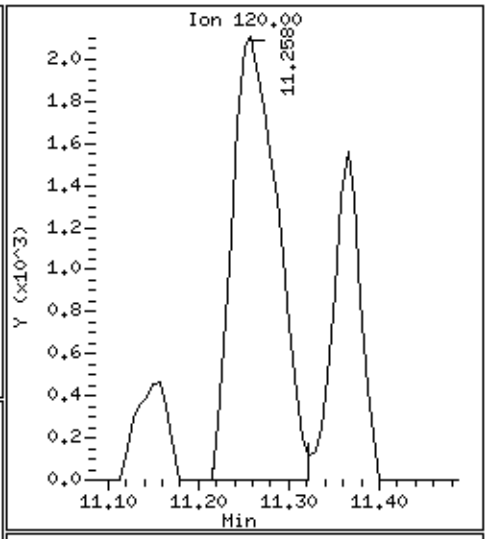
Column phase: RTX-624

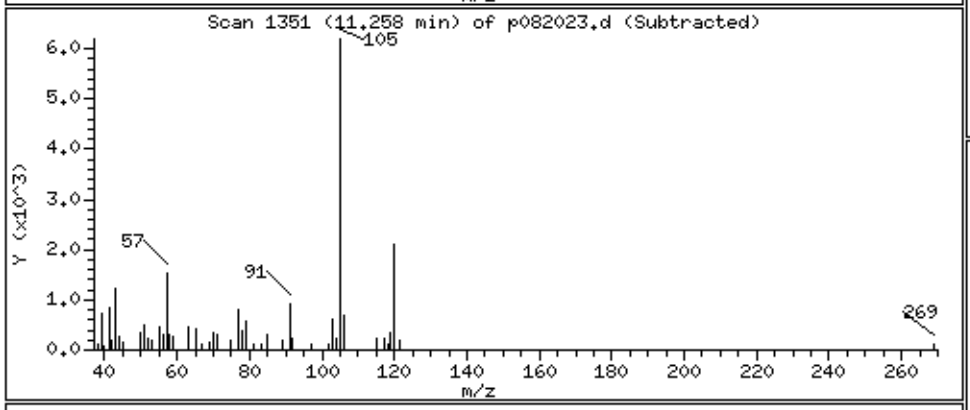
Column diameter: 0.25

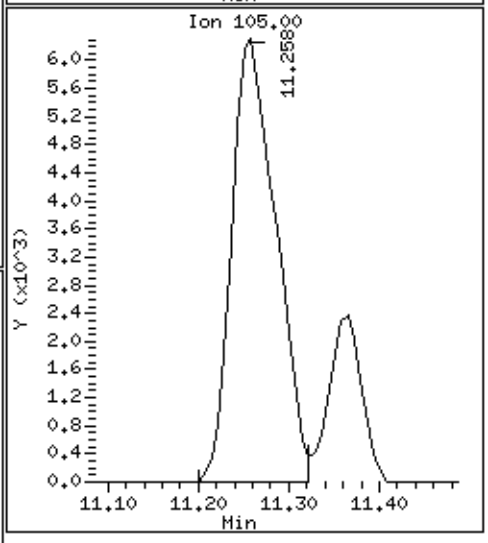
183 4-Ethyltoluene

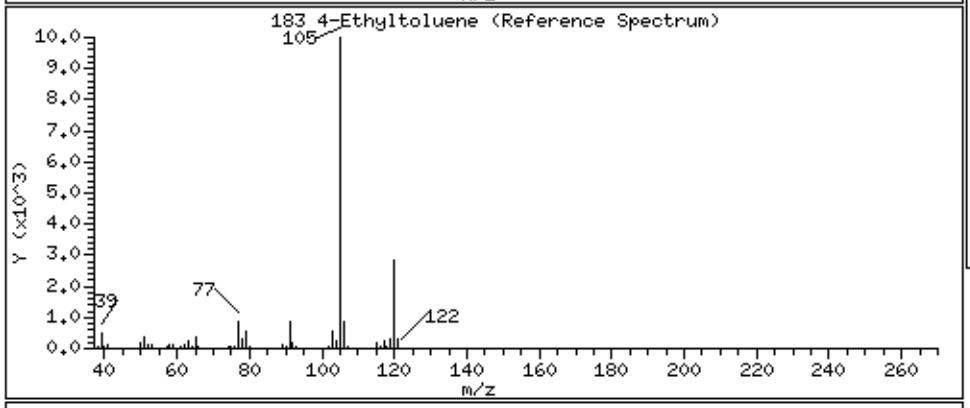
Concentration: 1.493 PPBV

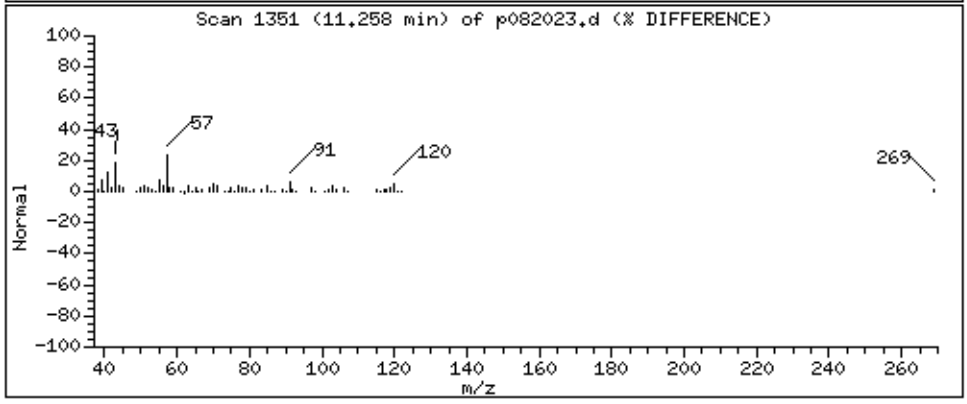












Data File: /chem/msdp.i/20AUG21.b/p082023.d

Date : 21-AUG-2021 01:14

Client ID:

Instrument: msdp.i

Sample Info: 200ml 3033

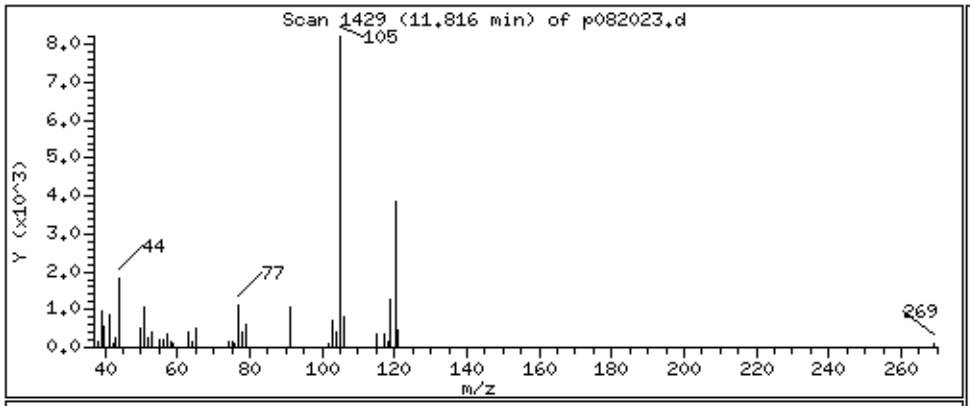
Operator: kk

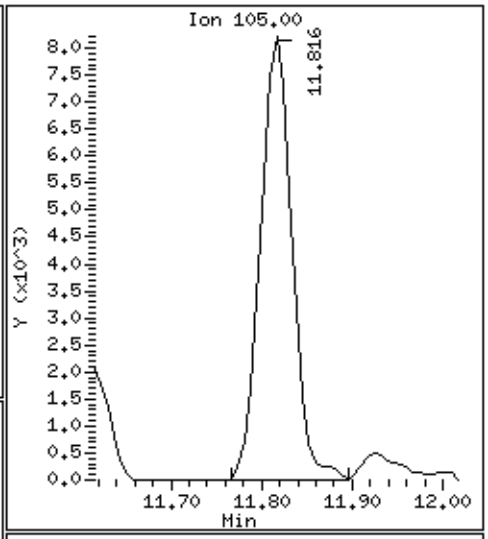
Column phase: RTX-624

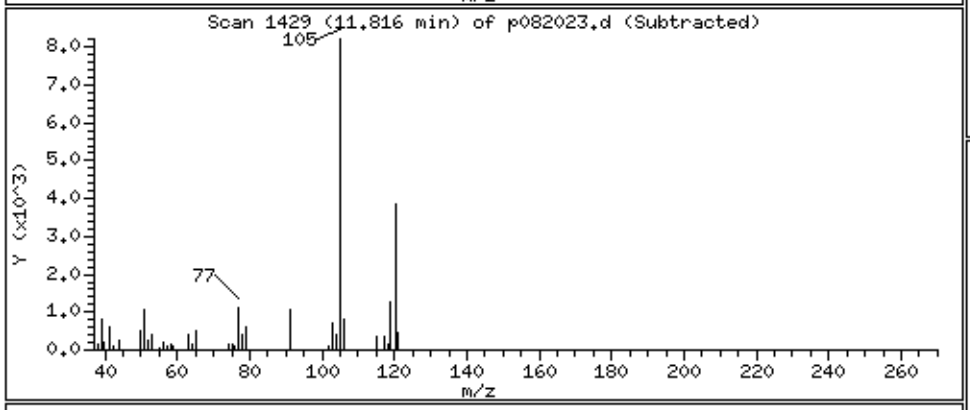
Column diameter: 0.25

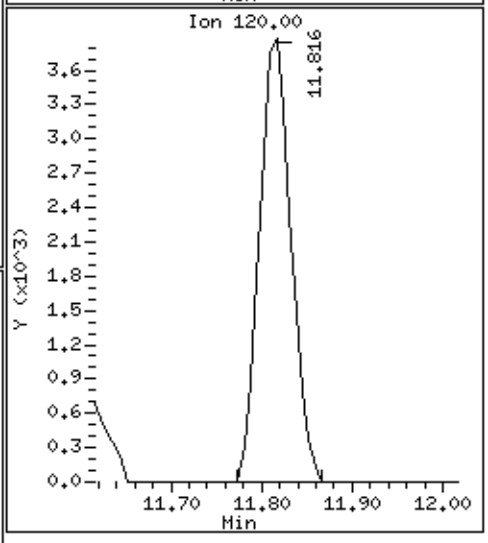
190 1,2,4-Trimethylbenzene

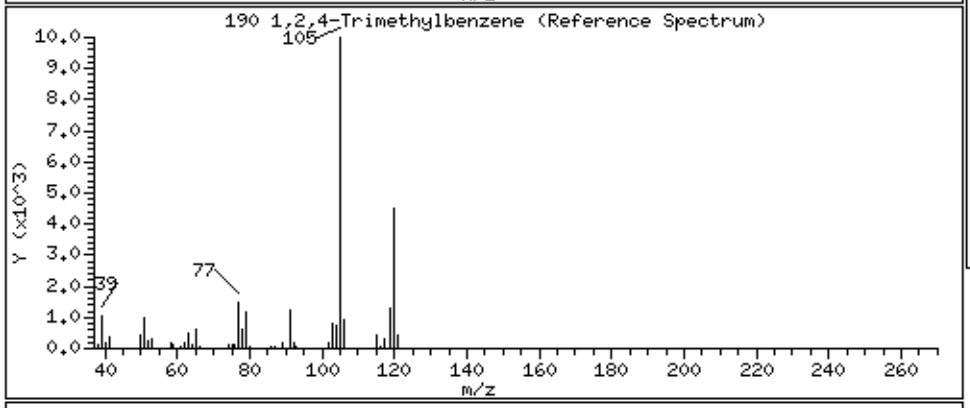
Concentration: 1.560 PPBV

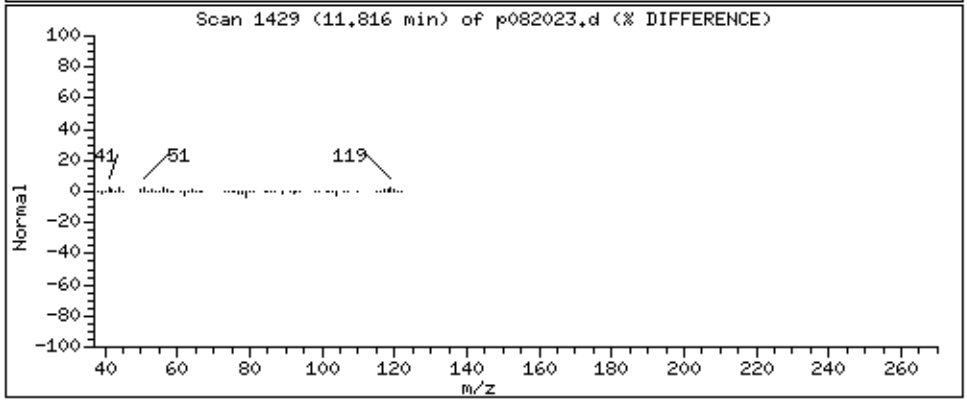












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Client Sample ID: SG-VW21A-04

Lab ID#: 2108390-14A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p082019**	**Date of Collection:**	**8/17/21 7:49:00 AM**
Dil. Factor:	**1.94**	**Date of Analysis:**	**8/20/21 11:16 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1,2-Tetrachloroethane	3.9	Not Detected	27	Not Detected
1,1,1-Trichloroethane	0.97	1.0	5.3	5.8
1,1,2,2-Tetrachloroethane	0.97	Not Detected	6.6	Not Detected
1,1,2-Trichloroethane	0.97	Not Detected	5.3	Not Detected
1,1-Dichloroethane	0.97	Not Detected	3.9	Not Detected
1,1-Dichloroethene	0.97	Not Detected	3.8	Not Detected
1,1-Difluoroethane	3.9	84	10	230
1,2,3-Trichloropropane	3.9	Not Detected	23	Not Detected
1,2,4-Trichlorobenzene	3.9	Not Detected	29	Not Detected
1,2,4-Trimethylbenzene	0.97	3.4	4.8	16
1,2-Dibromo-3-chloropropane	3.9	Not Detected	38	Not Detected
1,2-Dibromoethane (EDB)	0.97	Not Detected	7.4	Not Detected
1,2-Dichlorobenzene	0.97	Not Detected	5.8	Not Detected
1,2-Dichloroethane	0.97	Not Detected	3.9	Not Detected
1,2-Dichloropropane	0.97	Not Detected	4.5	Not Detected
1,3,5-Trimethylbenzene	0.97	1.1	4.8	5.6
1,3-Butadiene	0.97	Not Detected	2.1	Not Detected
1,3-Dichlorobenzene	0.97	Not Detected	5.8	Not Detected
1,4-Dichlorobenzene	0.97	Not Detected	5.8	Not Detected
1,4-Dioxane	3.9	Not Detected	14	Not Detected
2,2,4-Trimethylpentane	0.97	1.2	4.5	5.8
2-Butanone (Methyl Ethyl Ketone)	3.9	Not Detected	11	Not Detected
2-Hexanone	3.9	Not Detected	16	Not Detected
2-Propanol	3.9	6.1	9.5	15
3-Chloropropene	3.9	Not Detected	12	Not Detected
4-Ethyltoluene	0.97	3.6	4.8	18
4-Methyl-2-pentanone	0.97	Not Detected	4.0	Not Detected
Acetone	9.7	22	23	52
Acrolein	3.9	Not Detected	8.9	Not Detected
Acrylonitrile	3.9	Not Detected	8.4	Not Detected
alpha-Chlorotoluene	0.97	Not Detected	5.0	Not Detected
Benzene	0.97	1.8	3.1	5.7
Bromodichloromethane	0.97	Not Detected	6.5	Not Detected
Bromoform	0.97	Not Detected	10	Not Detected
Bromomethane	9.7	Not Detected	38	Not Detected
Carbon Disulfide	3.9	Not Detected	12	Not Detected
Carbon Tetrachloride	0.97	Not Detected	6.1	Not Detected
Chlorobenzene	0.97	Not Detected	4.5	Not Detected
Chloroethane	3.9	Not Detected	10	Not Detected
Chloroform	0.97	1.8	4.7	9.0
Chloromethane	9.7	Not Detected	20	Not Detected
cis-1,2-Dichloroethene	0.97	Not Detected	3.8	Not Detected

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Client Sample ID: SG-VW21A-04

Lab ID#: 2108390-14A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p082019**	**Date of Collection:**	**8/17/21 7:49:00 AM**
Dil. Factor:	**1.94**	**Date of Analysis:**	**8/20/21 11:16 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,3-Dichloropropene	0.97	Not Detected	4.4	Not Detected
Cumene	0.97	Not Detected	4.8	Not Detected
Cyclohexane	0.97	2.7	3.3	9.2
Dibromochloromethane	0.97	Not Detected	8.3	Not Detected
Dibromomethane	3.9	Not Detected	28	Not Detected
Ethanol	9.7	32	18	61
Ethyl Acetate	3.9	Not Detected	14	Not Detected
Ethyl Benzene	0.97	4.2	4.2	18
Ethyl-tert-butyl ether	3.9	Not Detected	16	Not Detected
Freon 11	0.97	Not Detected	5.4	Not Detected
Freon 12	0.97	Not Detected	4.8	Not Detected
Freon 113	0.97	Not Detected	7.4	Not Detected
Freon 114	0.97	Not Detected	6.8	Not Detected
Freon 134a	3.9	Not Detected	16	Not Detected
Heptane	0.97	1.2	4.0	4.8
Hexachlorobutadiene	3.9	Not Detected	41	Not Detected
Hexachloroethane	3.9	Not Detected	38	Not Detected
Hexane	0.97	220	3.4	760
Iodomethane	9.7	Not Detected	56	Not Detected
Isopropyl ether	3.9	Not Detected	16	Not Detected
m,p-Xylene	0.97	16	4.2	70
Methyl tert-butyl ether	3.9	Not Detected	14	Not Detected
Methylene Chloride	9.7	Not Detected	34	Not Detected
Naphthalene	1.9	Not Detected	10	Not Detected
o-Xylene	0.97	5.4	4.2	24
Propylbenzene	0.97	Not Detected	4.8	Not Detected
Propylene	3.9	5.0	6.7	8.7
Styrene	0.97	Not Detected	4.1	Not Detected
tert-Amyl methyl ether	3.9	Not Detected	16	Not Detected
tert-Butyl alcohol	3.9	Not Detected	12	Not Detected
Tetrachloroethene	0.97	14	6.6	99
Tetrahydrofuran	0.97	Not Detected	2.9	Not Detected
Toluene	0.97	13	3.6	50
TPH ref. to Gasoline (MW=100)	97	470	400	1900
trans-1,2-Dichloroethene	0.97	Not Detected	3.8	Not Detected
trans-1,3-Dichloropropene	0.97	Not Detected	4.4	Not Detected
Trichloroethene	0.97	3.4	5.2	18
Vinyl Acetate	3.9	Not Detected	14	Not Detected
Vinyl Bromide	3.9	Not Detected	17	Not Detected
Vinyl Chloride	0.97	Not Detected	2.5	Not Detected

Container Type: 1 Liter Summa Canister

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Client Sample ID: SG-VW21A-04

Lab ID#: 2108390-14A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p082019**	**Date of Collection:**	**8/17/21 7:49:00 AM**
Dil. Factor:	**1.94**	**Date of Analysis:**	**8/20/21 11:16 PM**

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	110	70-130
4-Bromofluorobenzene	104	70-130

US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/20AUG21.b/p082019.d
Lab Smp Id: 2108390-14A
Inj Date : 20-AUG-2021 23:16
Operator : kk Inst ID: msdp.i
Smp Info : 200ml O1022
Misc Info : 4.0 Hg->10 psi
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/20AUG21.b/p21q0519a.m
Meth Date : 20-Aug-2021 12:59 p5fl Quant Type: ISTD
Cal Date : 19-MAY-2021 19:45 Cal File: p051915.d
Als bottle: 1
Dil Factor: 1.94000
Integrator: HP RTE Compound Sublist: AEC25677.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
* 90 Bromochloromethane					CAS #: 74-97-5		
5.785	5.785 (1.000)	130	108221	25.0000		80.00- 120.00	100.00
5.785	5.785 (1.000)	128	84245			48.23- 108.23	77.85
5.785	5.778 (1.000)	49	242843			150.57- 210.57	224.39
* 108 1,4-Difluorobenzene					CAS #: 540-36-3		
6.659	6.659 (1.000)	114	394335	25.0000		80.00- 120.00	100.00
6.659	6.659 (1.000)	88	56611			0.00- 45.71	14.36
* 153 Chlorobenzene-d5					CAS #: 3114-55-4		
9.460	9.460 (1.000)	117	398950	25.0000		80.00- 120.00	100.00
9.460	9.460 (1.000)	82	204934			23.78- 83.78	51.37
$ 104 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
6.308	6.315 (1.090)	65	163546	27.3835	27.384	80.00- 120.00	100.00
6.315	6.315 (1.092)	67	76867			27.21- 87.21	47.00
$ 134 Toluene-d8					CAS #: 2037-26-5		
7.891	7.891 (1.185)	98	435022	25.4049	25.405	80.00- 120.00	100.00
7.891	7.891 (1.185)	70	48262			0.00- 40.44	11.09

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 134 Toluene-d8 (continued)							
7.891	7.891 (1.185)	100	282110			34.95- 94.95	64.85
$ 170 4-Bromofluorobenzene					CAS #: 460-00-4		
10.921	10.921 (1.154)	174	266967	26.0593	26.059	80.00- 120.00	100.00
10.914	10.914 (1.154)	95	312707			95.92- 155.92	117.13
10.921	10.921 (1.154)	176	253476			66.89- 126.89	94.95
5 Propylene					CAS #: 115-07-1		
1.689	1.689 (0.292)	41	12888	2.60244	5.049	80.00- 120.00	100.00
1.689	1.689 (0.292)	42	7262			35.28- 95.28	56.35
1.689	1.689 (0.292)	39	10338			38.35- 98.35	80.21
7 1,1-Difluoroethane					CAS #: 75-37-6		
1.717	1.703 (0.297)	65	106800	43.5380	84.464	80.00- 120.00	100.00
1.759	1.759 (0.304)	51	1713076			597.63- 657.63	1604.00
1.717	1.717 (0.297)	47	92933			33.72- 93.72	87.02
39 Ethanol					CAS #: 64-17-5		
3.250	3.242 (0.562)	46	17928	16.7048	32.407	80.00- 120.00	100.00
3.250	3.285 (0.562)	45	45728			511.19- 571.19	255.06
47 Acetone					CAS #: 67-64-1		
3.722	3.722 (0.643)	58	31770	11.1979	21.724	80.00- 120.00	100.00
3.722	3.722 (0.643)	43	121987			302.95- 362.95	383.96
52 2-Propanol					CAS #: 67-63-0		
3.901	3.894 (0.674)	45	36217	3.16734	6.145	80.00- 120.00	100.00
3.901	3.894 (0.674)	43	10815			0.00- 47.19	29.86
67 Hexane					CAS #: 110-54-3		
4.697	4.697 (0.812)	57	1186299	111.274	215.87	80.00- 120.00	100.00
4.697	4.697 (0.812)	43	918495			37.52- 97.52	77.43
4.697	4.697 (0.812)	86	117328			0.00- 41.48	9.89
92 Chloroform					CAS #: 67-66-3		
5.835	5.843 (1.009)	83	8915	0.94679	1.837	80.00- 120.00	100.00
5.835	5.843 (1.009)	85	6270			34.70- 94.70	70.33
94 Cyclohexane					CAS #: 110-82-7		
5.957	5.957 (1.030)	84	9433	1.38567	2.688	80.00- 120.00	100.00
5.964	5.957 (1.031)	56	26071			142.57- 202.57	276.38
5.957	5.957 (1.030)	41	17500			62.09- 122.09	185.52
96 1,1,1-Trichloroethane					CAS #: 71-55-6		
5.964	5.972 (1.031)	97	5780	0.54337	1.054	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
96 1,1,1-Trichloroethane (continued)							
5.964	5.972 (1.031)	99	3383			34.02- 94.02	58.54
101 2,2,4-Trimethylpentane					CAS #: 540-84-1		
6.280	6.280 (1.085)	57	23759	0.64118	1.244	80.00- 120.00	100.00
6.280	6.280 (1.085)	56	13681			2.24- 62.24	57.58
6.280	6.280 (1.085)	41	13185			0.00- 54.39	55.49
102 Benzene					CAS #: 71-43-2		
6.301	6.301 (0.946)	78	12023	0.92393	1.792	80.00- 120.00	100.00
6.301	6.301 (0.946)	77	3071			0.00- 52.90	25.55
107 Heptane					CAS #: 142-82-5		
6.451	6.444 (0.969)	71	3136	0.60832	1.180	80.00- 120.00	100.00
6.451	6.444 (0.969)	43	10394			226.53- 286.53	331.37
6.451	6.444 (0.969)	57	5266			100.85- 160.85	167.90
111 Trichloroethene					CAS #: 79-01-6		
6.867	6.867 (1.031)	95	11189	1.77198	3.438	80.00- 120.00	100.00
6.867	6.867 (1.031)	130	12463			76.29- 136.29	111.39
6.867	6.867 (1.031)	97	7249			33.63- 93.63	64.78
137 Toluene					CAS #: 108-88-3		
7.956	7.956 (1.195)	91	123041	6.85335	13.295	80.00- 120.00	100.00
7.956	7.956 (1.195)	92	69967			28.38- 88.38	56.87
142 Tetrachloroethene					CAS #: 127-18-4		
8.464	8.464 (0.895)	166	68272	7.50869	14.567	80.00- 120.00	100.00
8.464	8.464 (0.895)	129	51435			47.84- 107.84	75.34
8.464	8.464 (0.895)	131	49191			45.29- 105.29	72.05
155 Ethyl Benzene					CAS #: 100-41-4		
9.567	9.567 (1.011)	106	17777	2.14604	4.163	80.00- 120.00	100.00
9.567	9.567 (1.011)	91	51892			273.74- 333.74	291.91
158 m,p-Xylene					CAS #: 108-38-3		
9.718	9.718 (1.027)	106	85995	8.28887	16.080	80.00- 120.00	100.00
9.711	9.718 (1.026)	91	159304			163.73- 223.73	185.25
164 o-Xylene					CAS #: 95-47-6		
10.226	10.226 (1.081)	106	27793	2.79602	5.424	80.00- 120.00	100.00
10.226	10.226 (1.081)	91	56302			177.45- 237.45	202.58
183 4-Ethyltoluene					CAS #: 622-96-8		
11.251	11.287 (1.189)	120	18665	1.85373	3.596	80.00- 120.00	100.00
11.258	11.287 (1.190)	105	52120			284.55- 344.55	279.24

					CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
RT	EXP RT	(REL RT)	MASS	RESPONSE				
185	1,3,5-Trimethylbenzene					CAS #: 108-67-8		
11.365	11.365	(1.201)	120	8141	0.58725	1.139	80.00- 120.00	100.00
11.365	11.365	(1.201)	105	15846			164.93- 224.93	194.64
190	1,2,4-Trimethylbenzene					CAS #: 95-63-6		
11.817	11.817	(1.249)	105	45181	1.72670	3.350	80.00- 120.00	100.00
11.817	11.817	(1.249)	120	24067			19.05- 79.05	53.27

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p082019.d
Lab Smp Id: 2108390-14A
Analysis Type: VOA
Quant Type: ISTD
Operator: kk
Method File: /chem/msdp.i/20AUG21.b/p21q0519a.m
Misc Info: 4.0 Hg->10 psi

Calibration Date: 20-AUG-2021
Calibration Time: 11:13
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	109375	65625	153125	108221	-1.06
108 1,4-Difluorobenze	406799	244079	569519	394335	-3.06
153 Chlorobenzene-d5	400841	240505	561177	398950	-0.47

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.79	5.46	6.12	5.79	0.00
108 1,4-Difluorobenze	6.66	6.33	6.99	6.66	0.00
153 Chlorobenzene-d5	9.46	9.13	9.79	9.46	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 24-Aug-2021 11:37

US32TAR1

RECOVERY REPORT

Client Name: Client SDG: 20AUG21
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 2108390-14A
Level: LOW Operator: kk
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT20_new.spk Quant Type: ISTD
Sublist File: AEC25677.sub
Method File: /chem/msdp.i/20AUG21.b/p21q0519a.m
Misc Info: 4.0 Hg->10 psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 104 1,2-Dichloroethan	25.000	27.384	109.53	70-130
$ 134 Toluene-d8	25.000	25.405	101.62	70-130
$ 170 4-Bromofluorobenz	25.000	26.059	104.24	70-130

Data File: /chem/msdp.i/20AUG21.b/p082019.d

Date : 20-AUG-2021 23:16

Client ID:

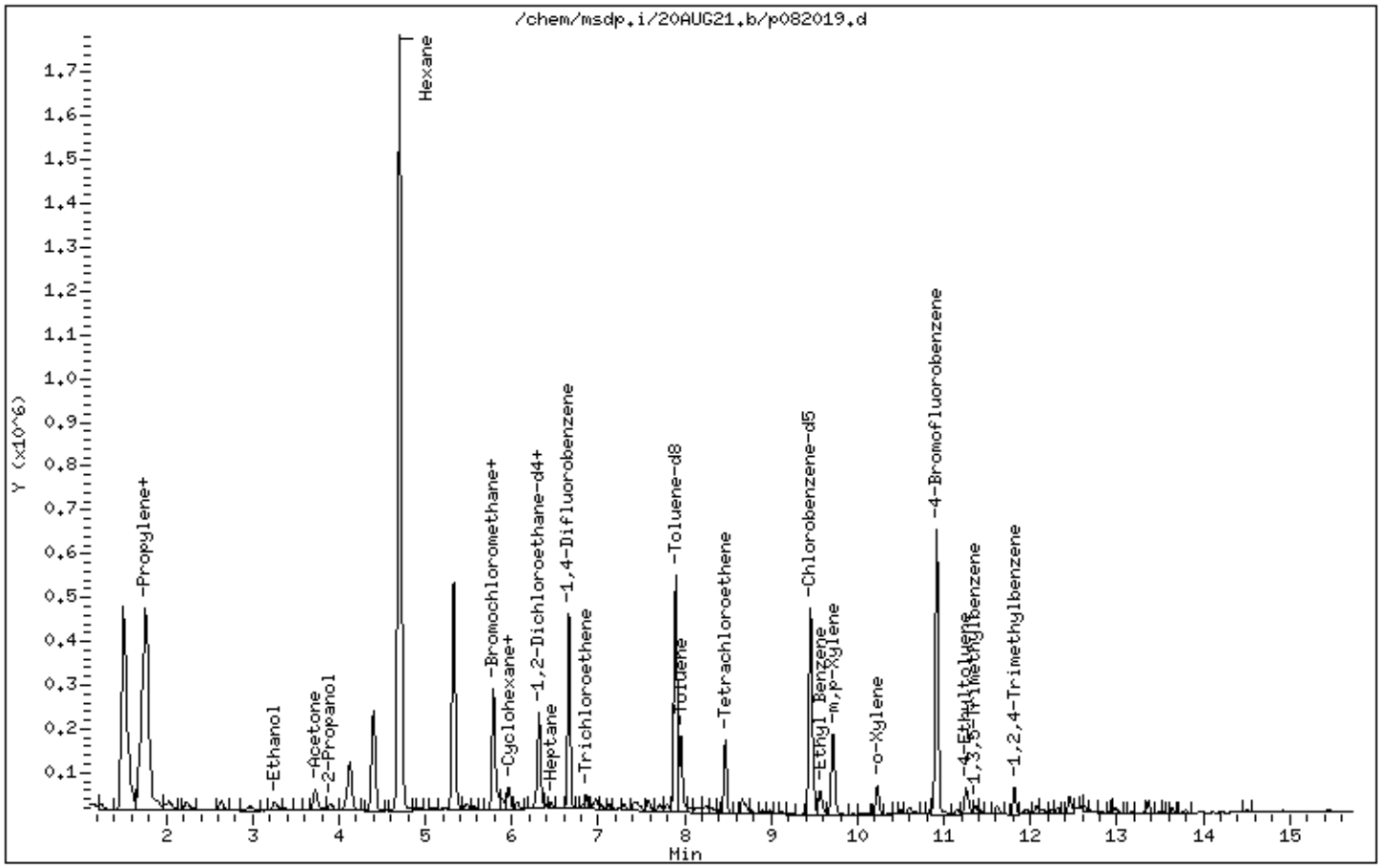
Instrument: msdp.i

Sample Info: 200ml 01022

Operator: kk

Column phase: RTX-624

Column diameter: 0.25



Data File: /chem/msdp.i/20AUG21.b/p082019.d

Date : 20-AUG-2021 23:16

Client ID:

Instrument: msdp.i

Sample Info: 200ml 01022

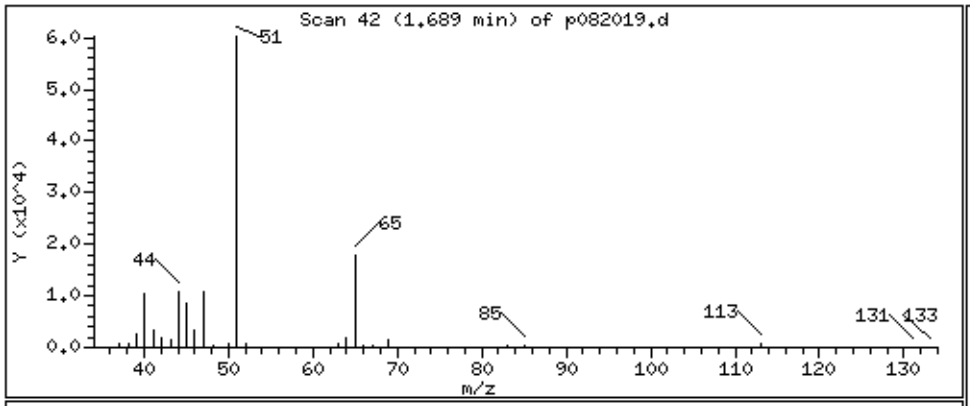
Operator: kk

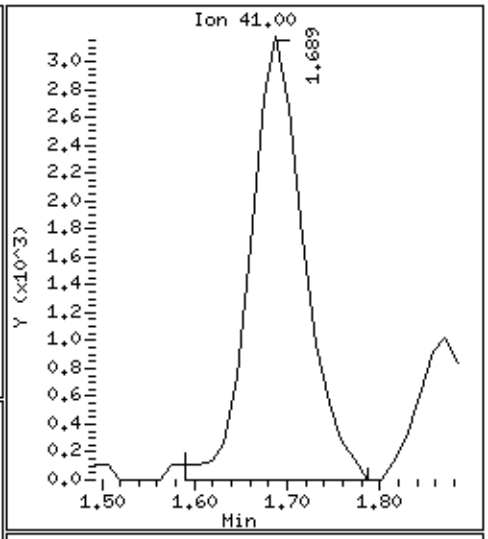
Column phase: RTX-624

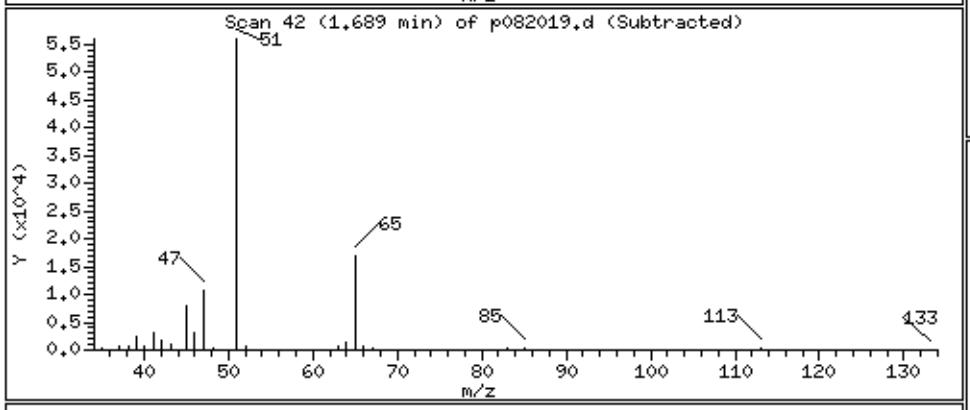
Column diameter: 0.25

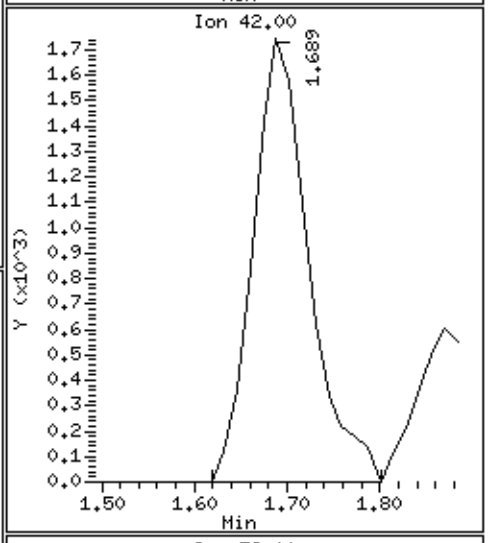
5 Propylene

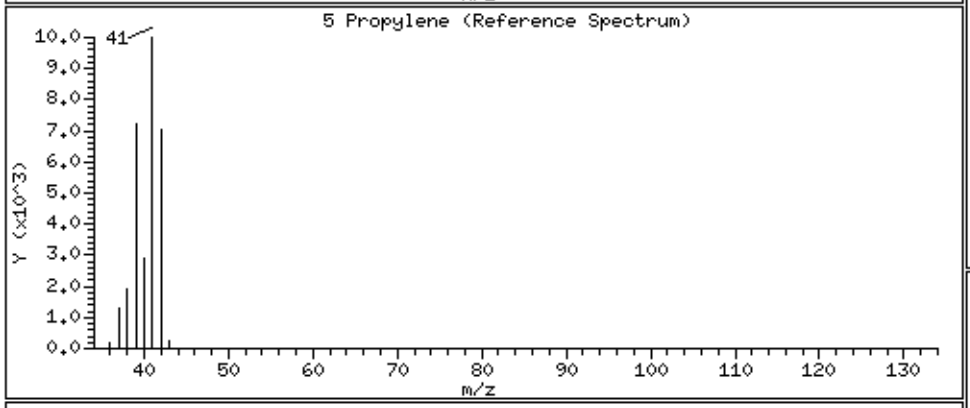
Concentration: 5.049 PPBV

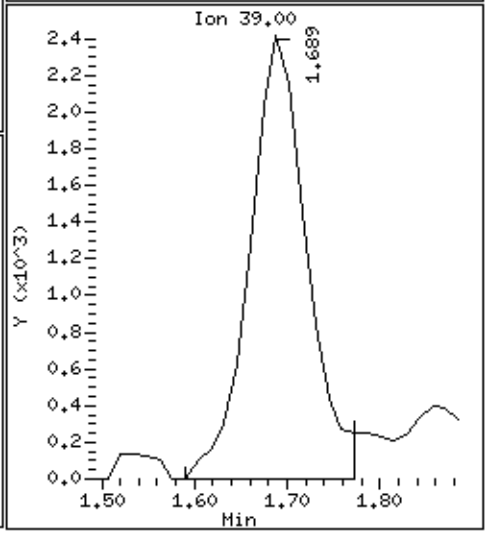


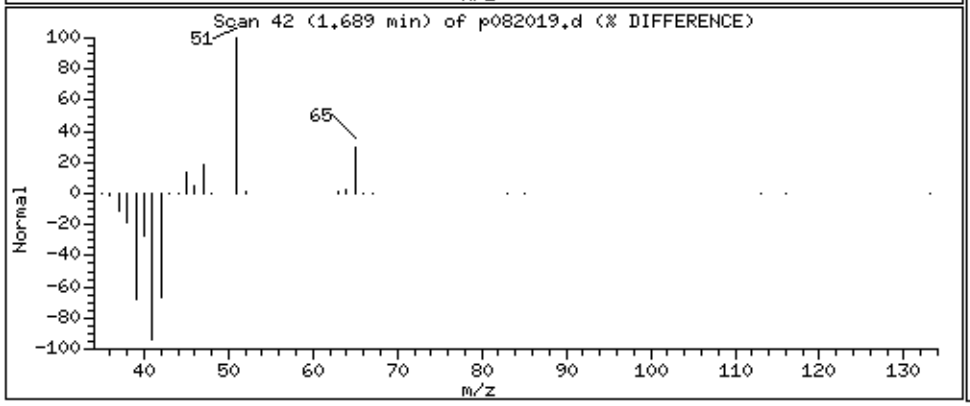












Data File: /chem/msdp.i/20AUG21.b/p082019.d

Date : 20-AUG-2021 23:16

Client ID:

Instrument: msdp.i

Sample Info: 200ml 01022

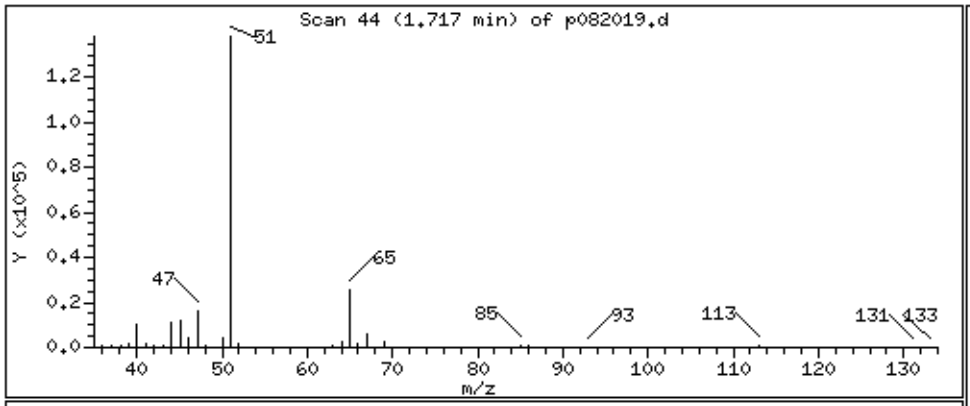
Operator: kk

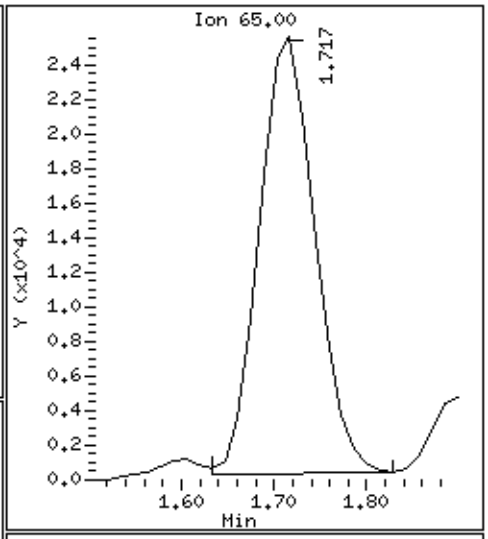
Column phase: RTX-624

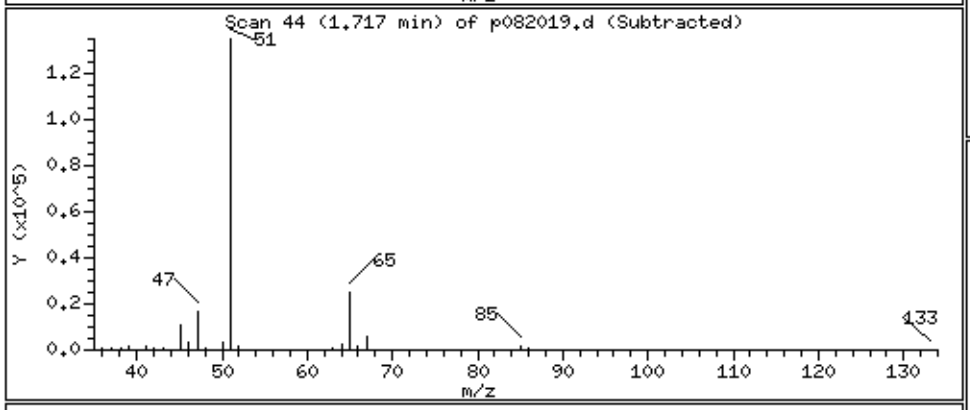
Column diameter: 0.25

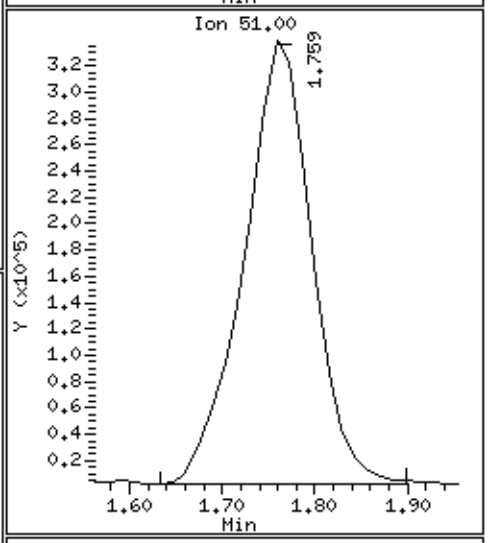
7 1,1-Difluoroethane

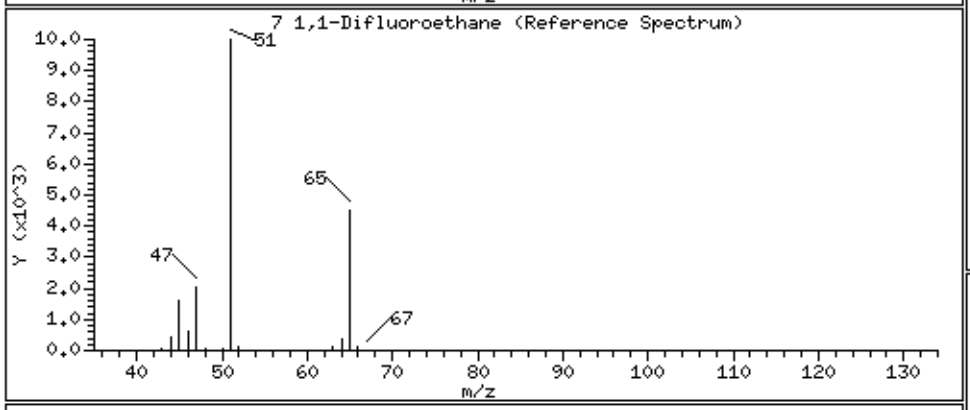
Concentration: 84.464 PPBV

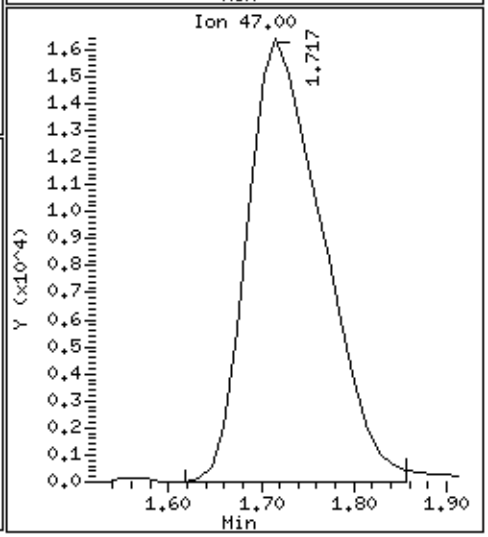


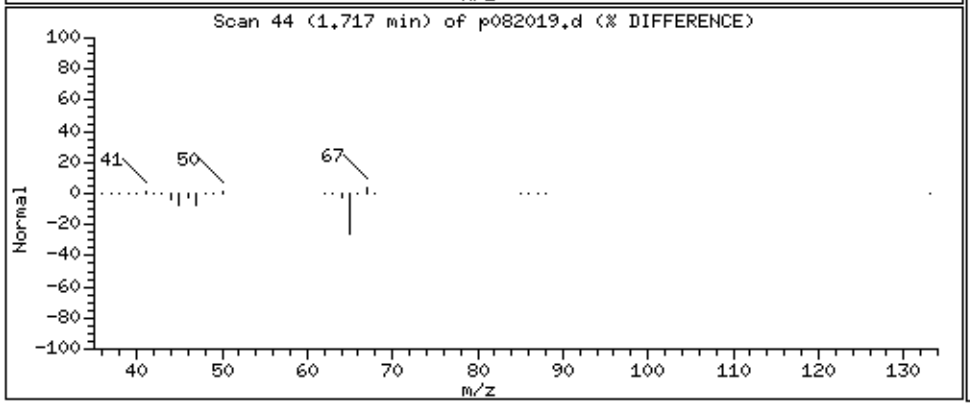












Data File: /chem/msdp.i/20AUG21.b/p082019.d

Date : 20-AUG-2021 23:16

Client ID:

Instrument: msdp.i

Sample Info: 200ml 01022

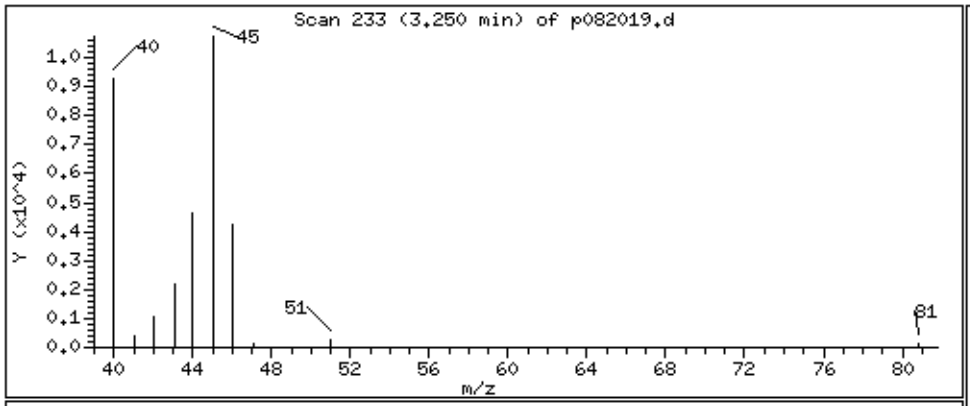
Operator: kk

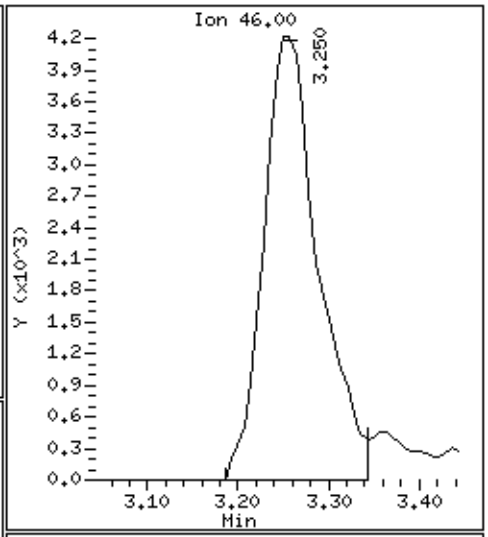
Column phase: RTX-624

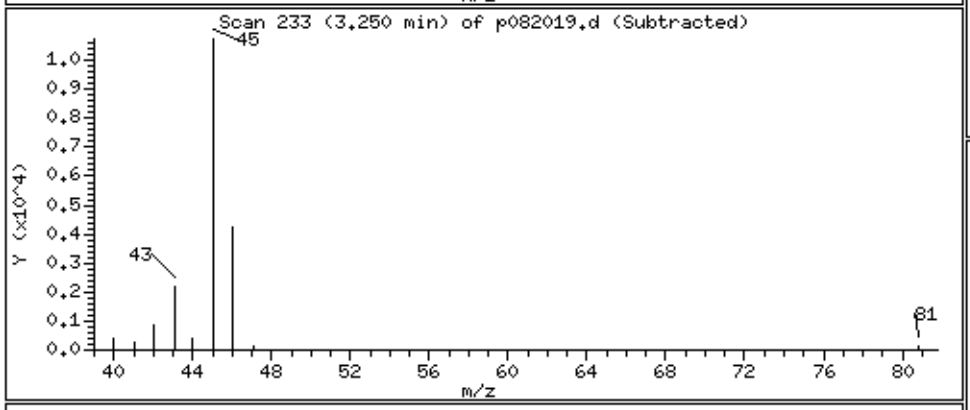
Column diameter: 0.25

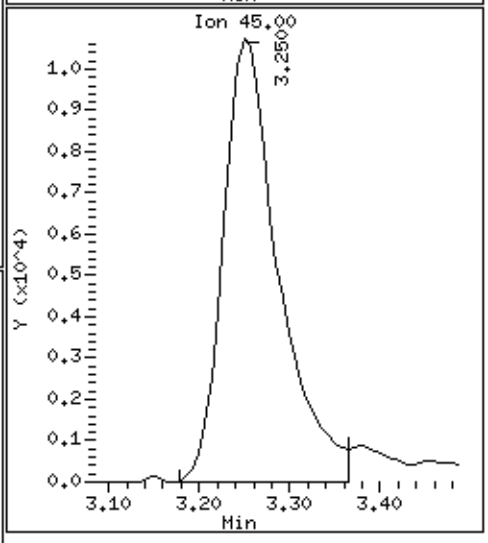
39 Ethanol

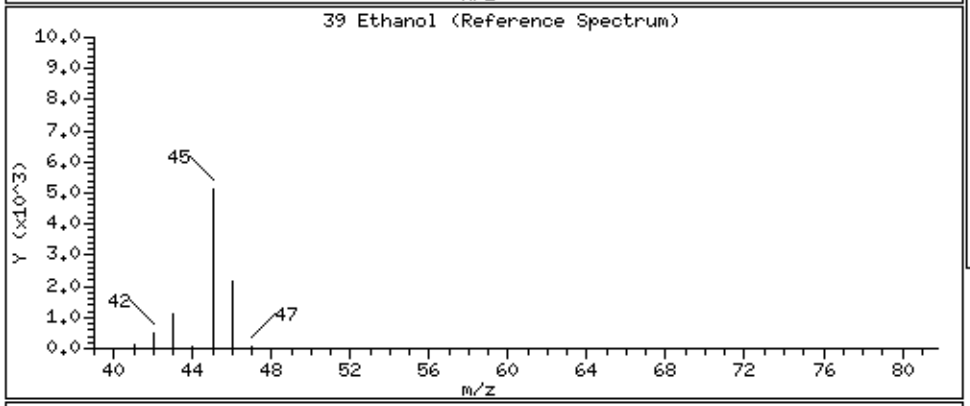
Concentration: 32.407 PPBV

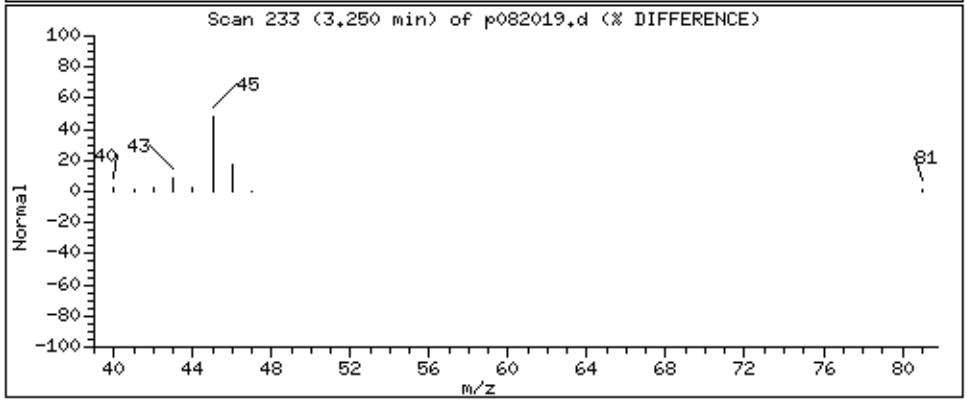












Data File: /chem/msdp.i/20AUG21.b/p082019.d

Date : 20-AUG-2021 23:16

Client ID:

Instrument: msdp.i

Sample Info: 200ml 01022

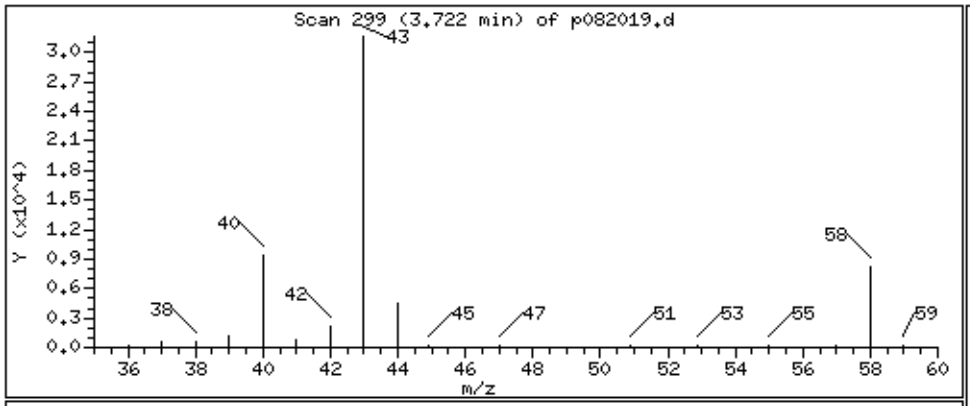
Operator: kk

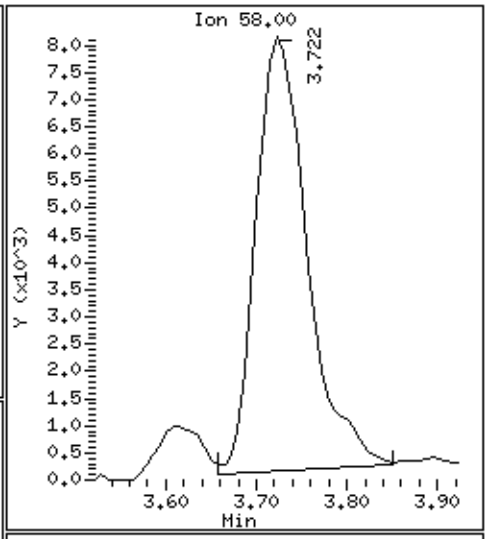
Column phase: RTX-624

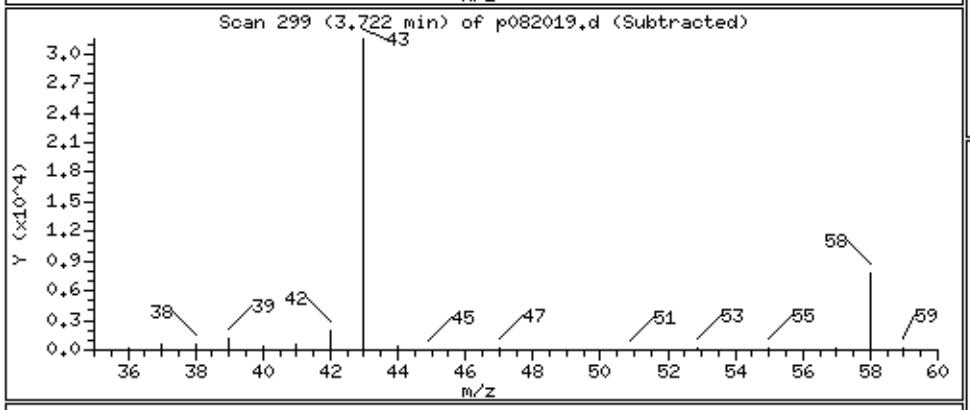
Column diameter: 0.25

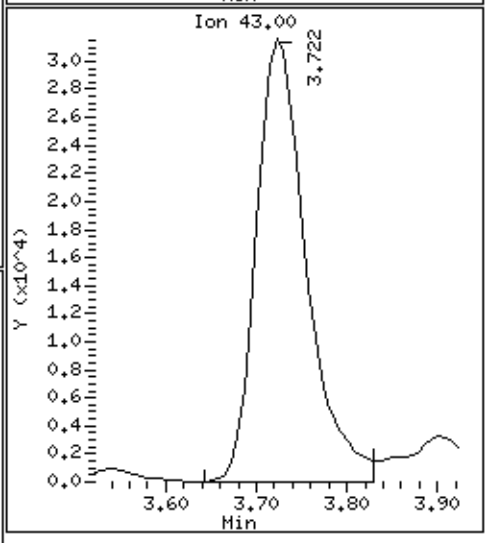
47 Acetone

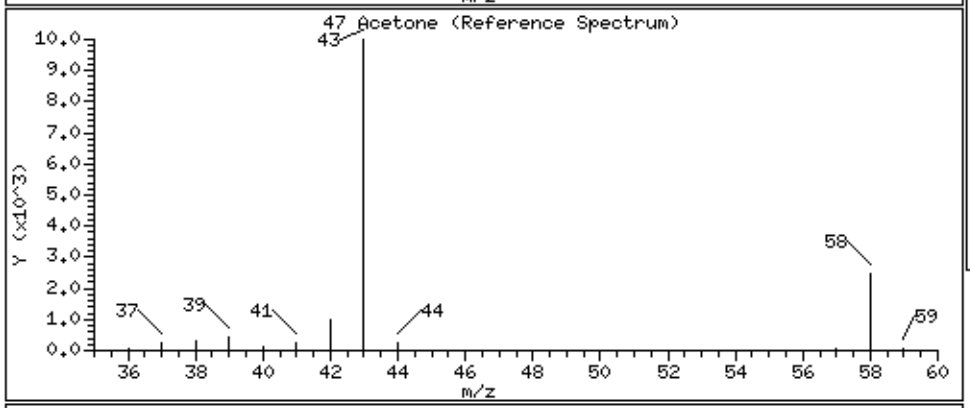
Concentration: 21.724 PPBV

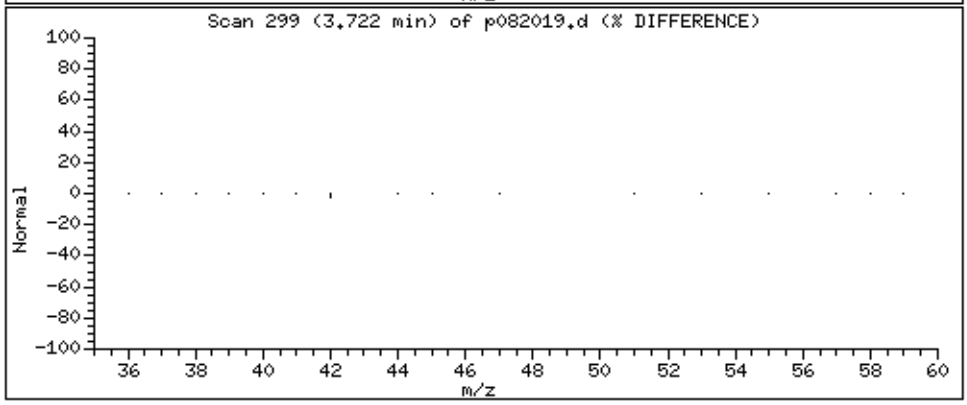












Data File: /chem/msdp.i/20AUG21.b/p082019.d

Date : 20-AUG-2021 23:16

Client ID:

Instrument: msdp.i

Sample Info: 200ml 01022

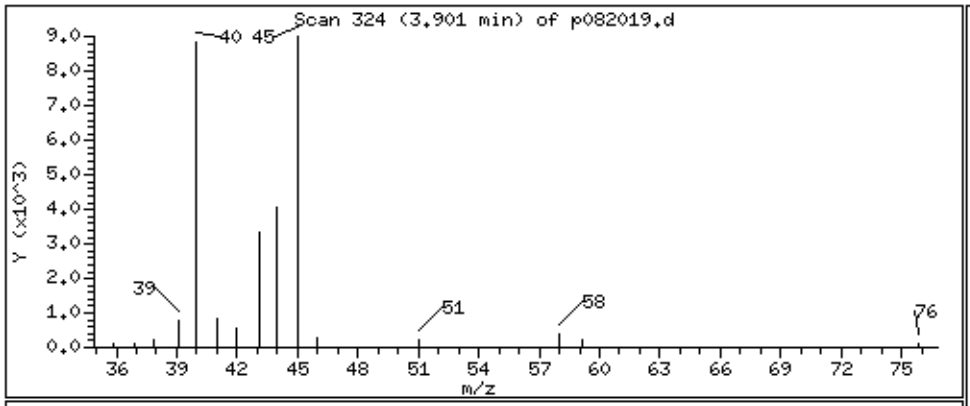
Operator: kk

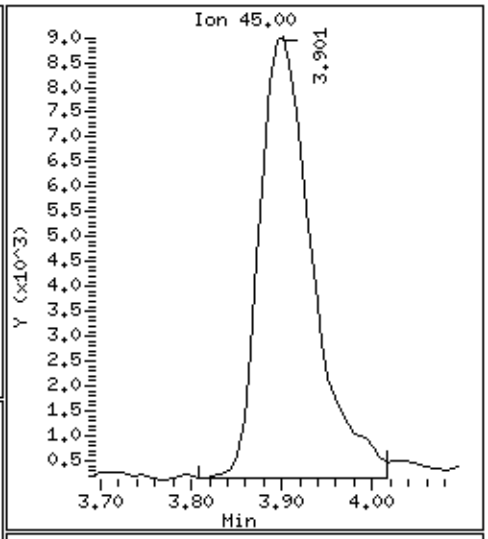
Column phase: RTX-624

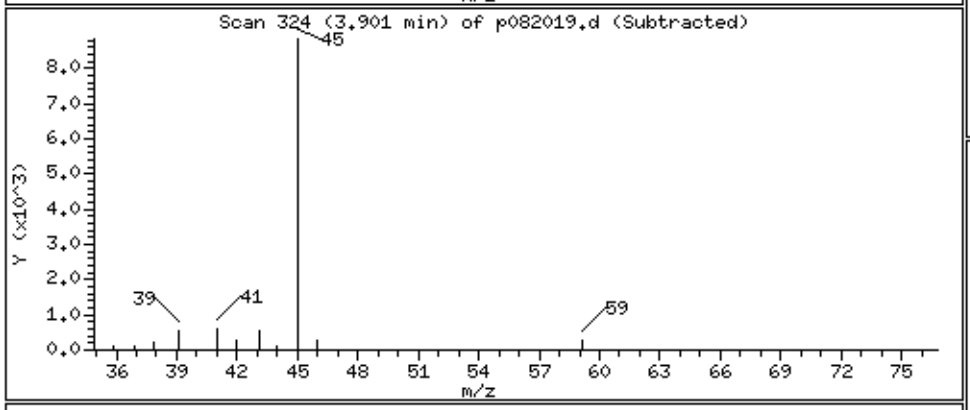
Column diameter: 0.25

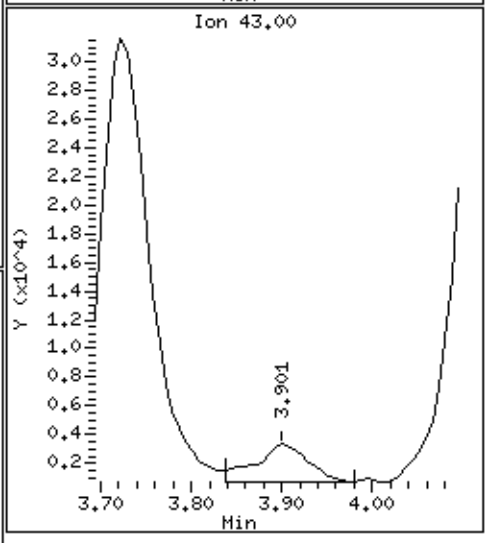
52 2-Propanol

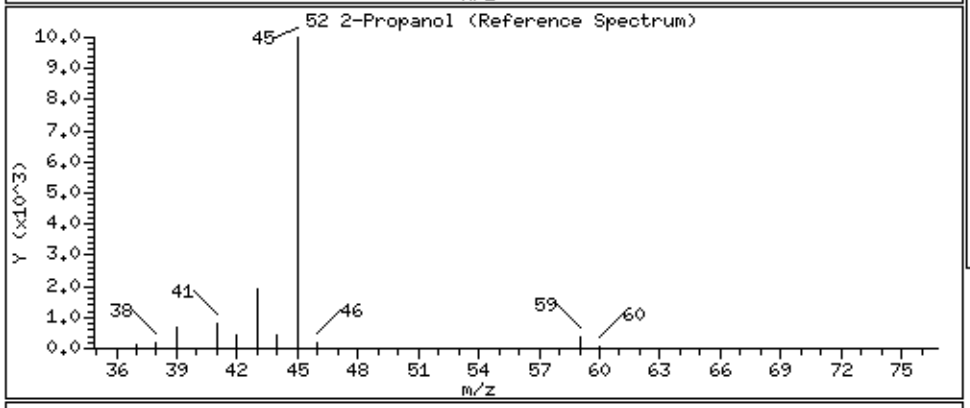
Concentration: 6.145 PPBV

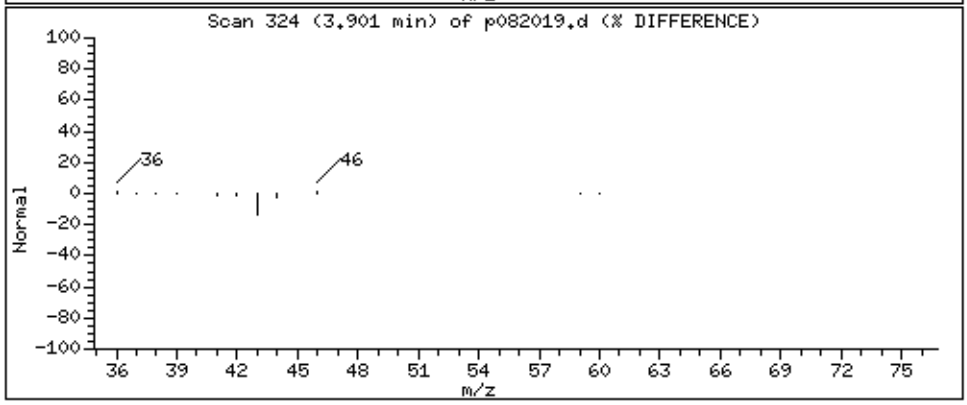












Data File: /chem/msdp.i/20AUG21.b/p082019.d

Date : 20-AUG-2021 23:16

Client ID:

Instrument: msdp.i

Sample Info: 200ml 01022

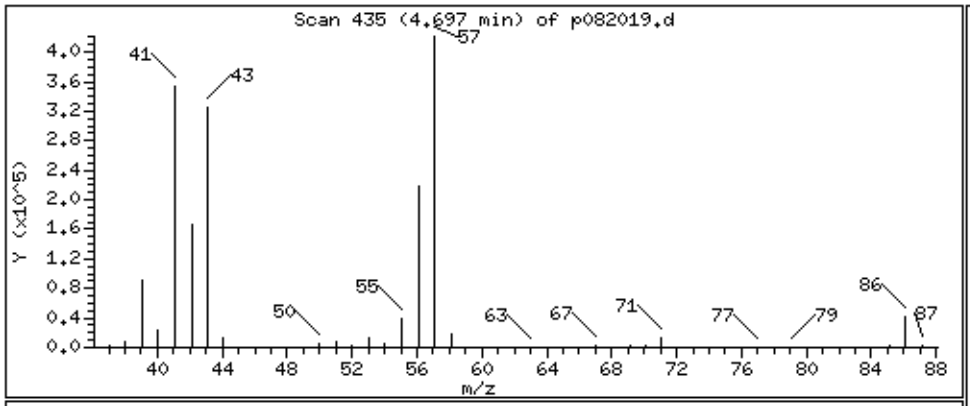
Operator: kk

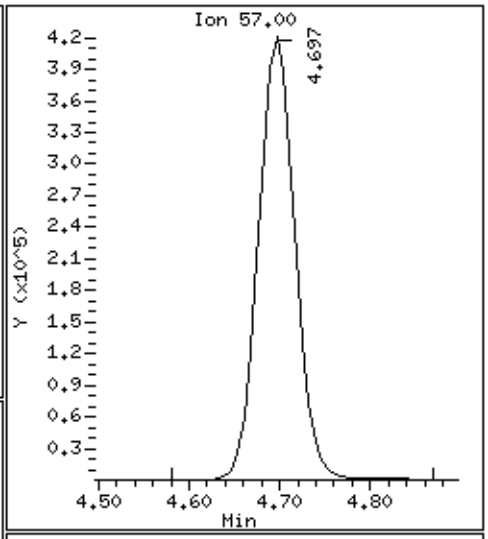
Column phase: RTX-624

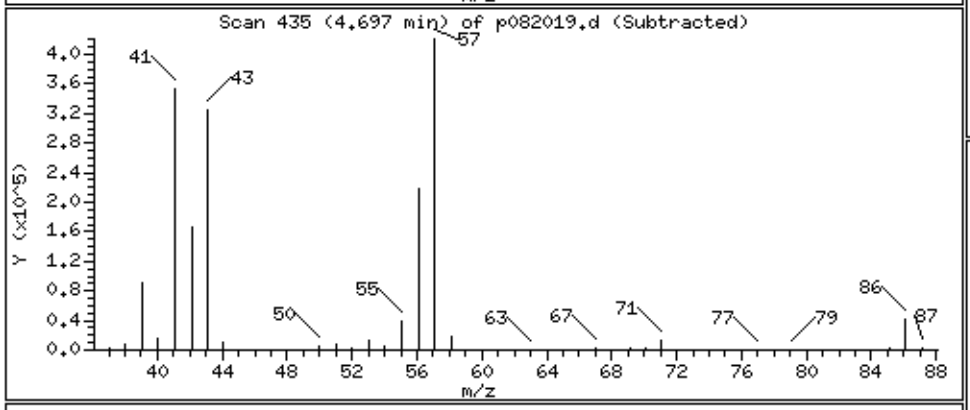
Column diameter: 0.25

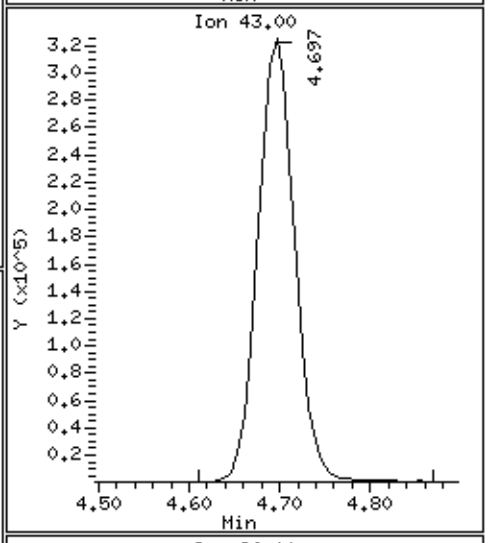
67 Hexane

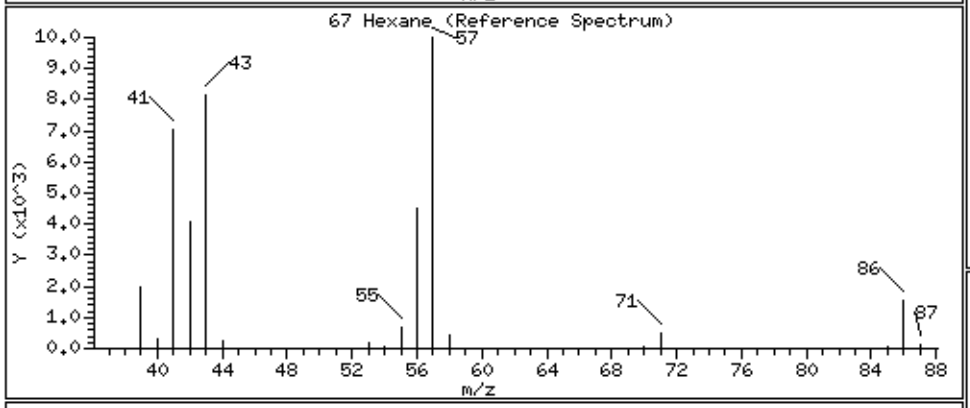
Concentration: 215.87 PPBV

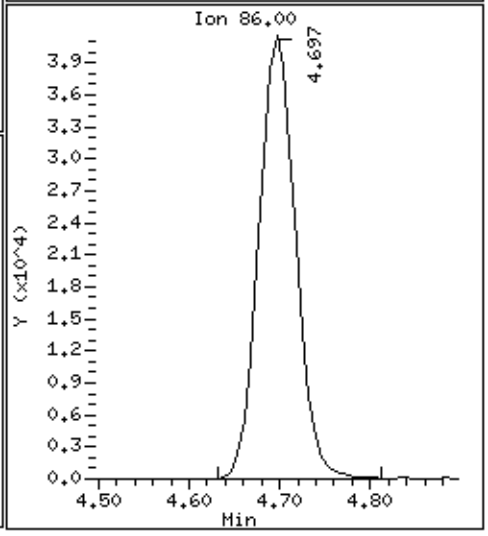


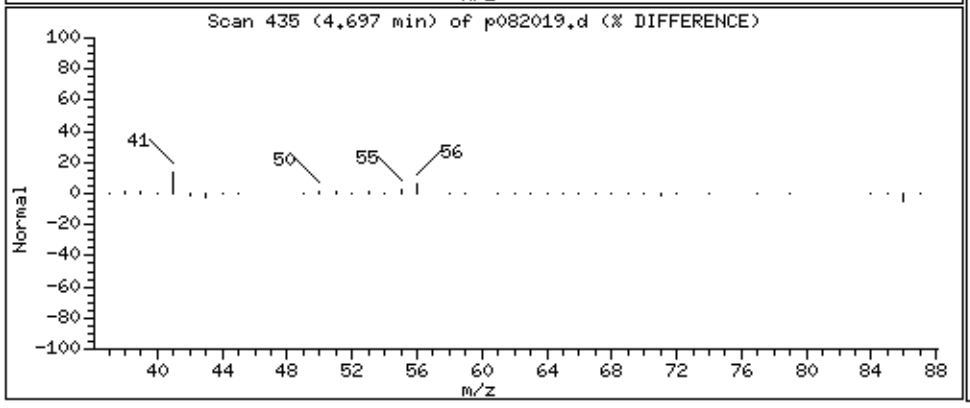












Data File: /chem/msdp.i/20AUG21.b/p082019.d

Date : 20-AUG-2021 23:16

Client ID:

Instrument: msdp.i

Sample Info: 200ml 01022

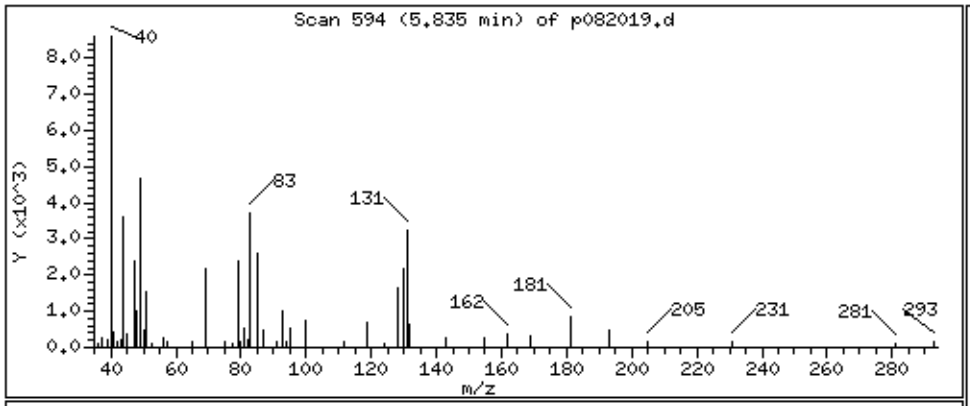
Operator: kk

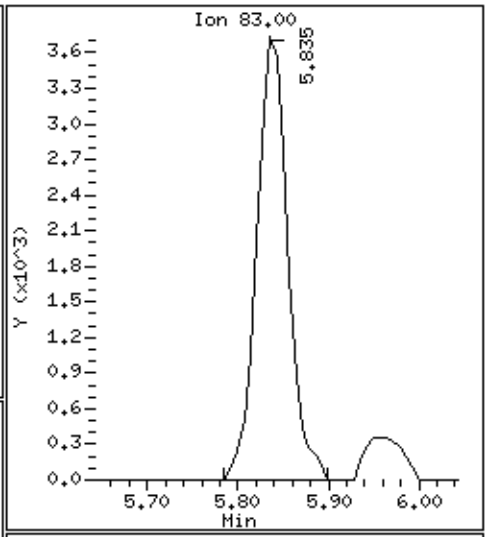
Column phase: RTX-624

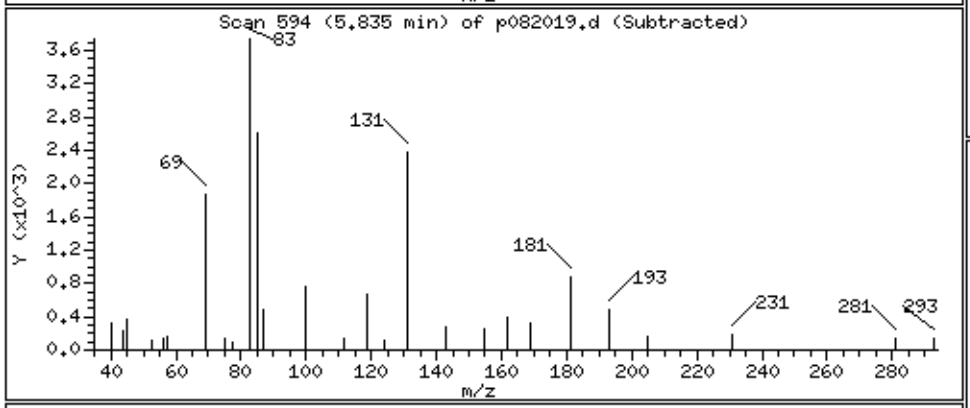
Column diameter: 0.25

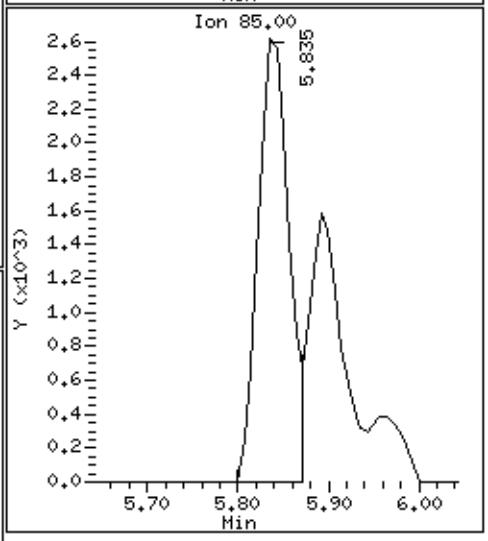
92 Chloroform

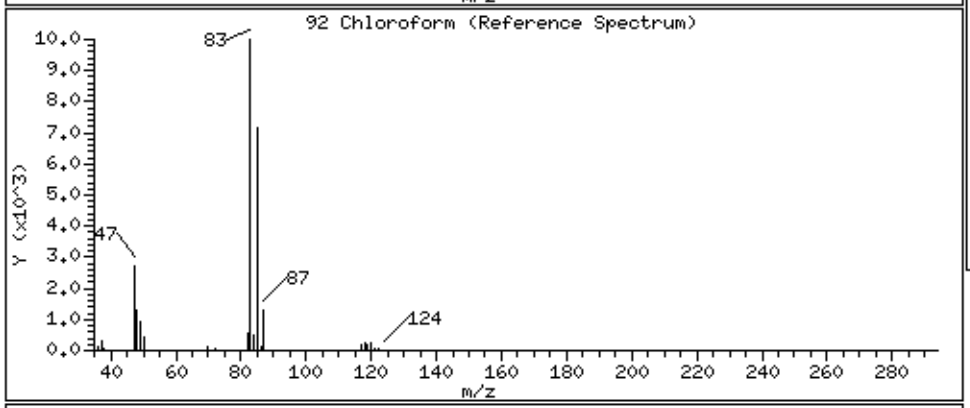
Concentration: 1.837 PPBV

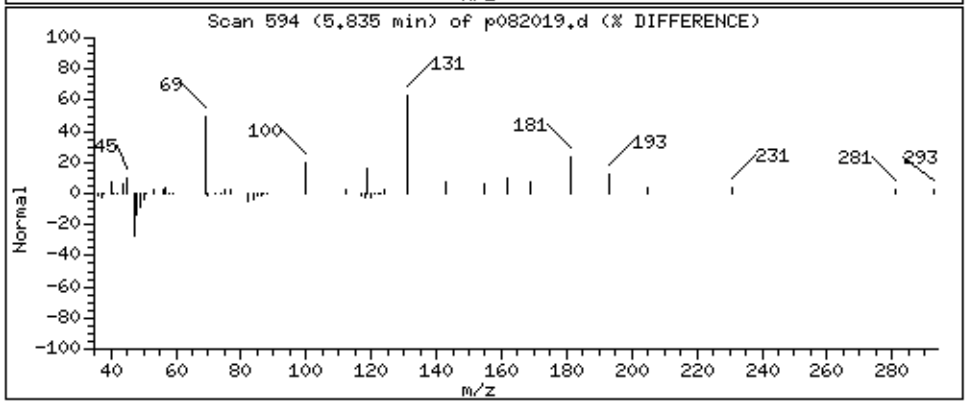












Data File: /chem/msdp.i/20AUG21.b/p082019.d

Date : 20-AUG-2021 23:16

Client ID:

Instrument: msdp.i

Sample Info: 200ml 01022

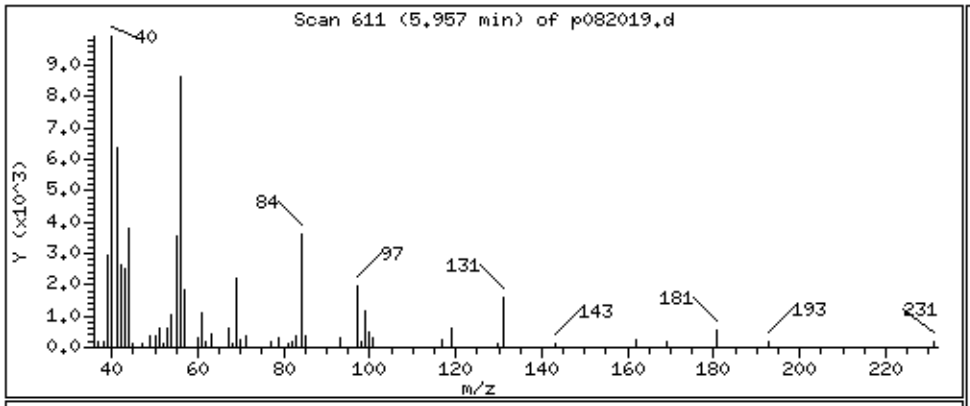
Operator: kk

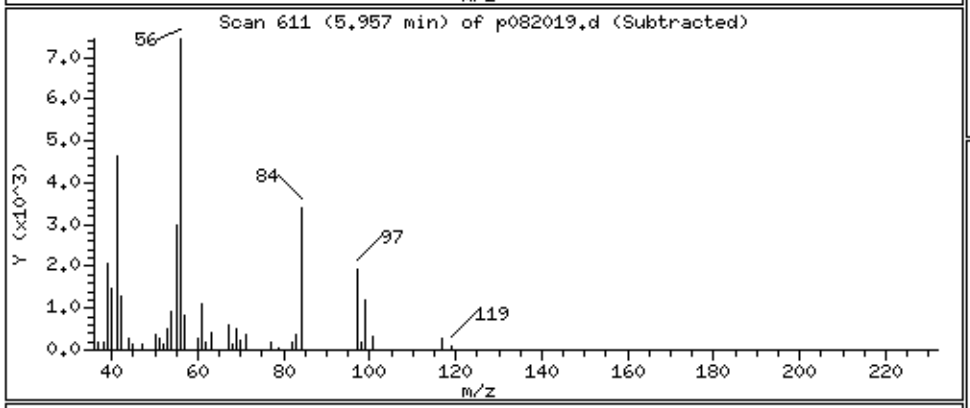
Column phase: RTX-624

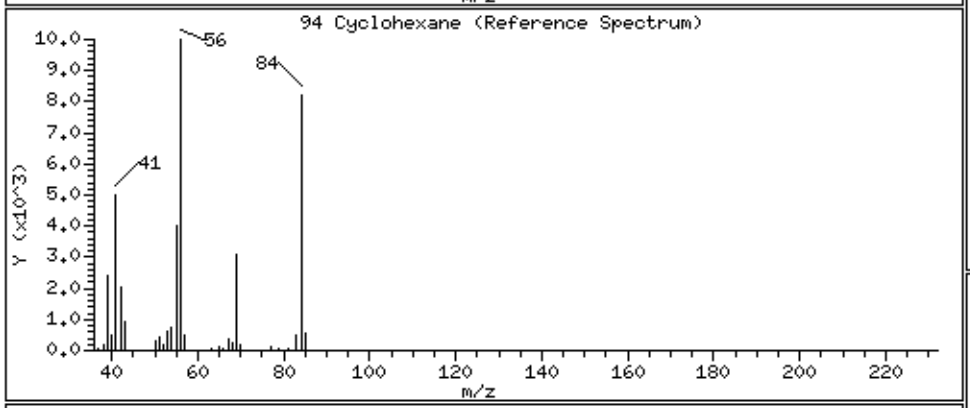
Column diameter: 0.25

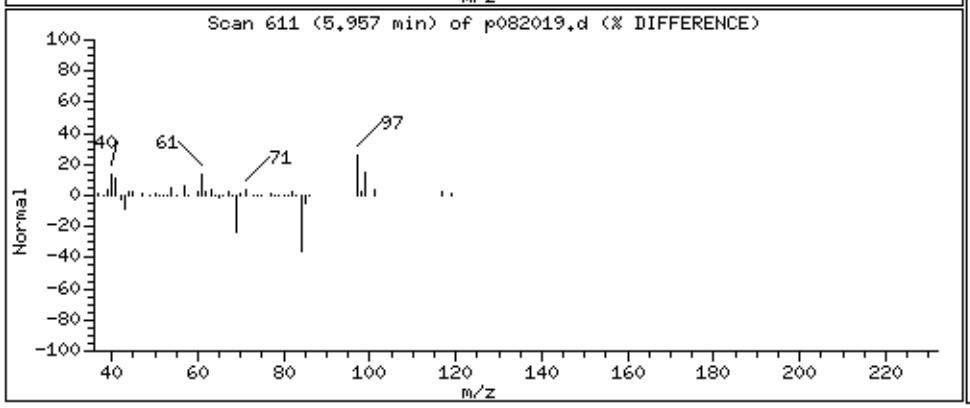
94 Cyclohexane

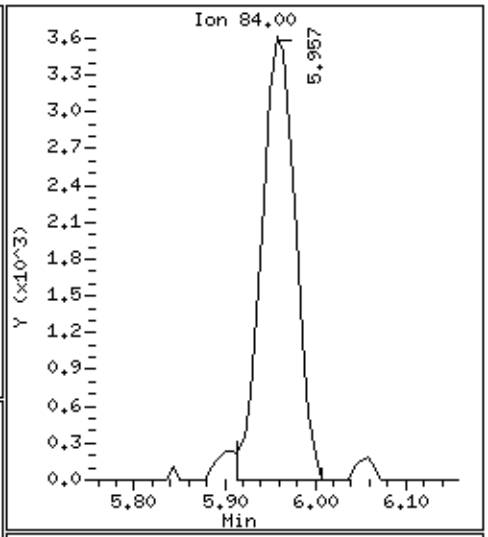
Concentration: 2.688 PPBV

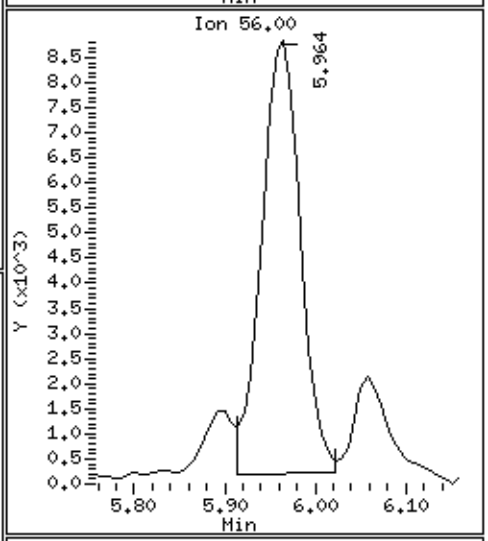


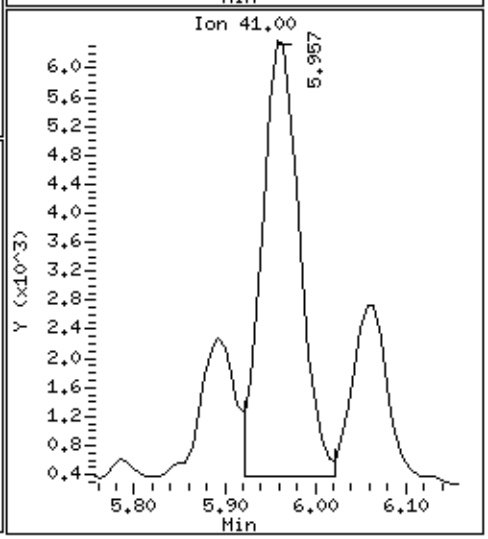












Data File: /chem/msdp.i/20AUG21.b/p082019.d

Date : 20-AUG-2021 23:16

Client ID:

Instrument: msdp.i

Sample Info: 200ml 01022

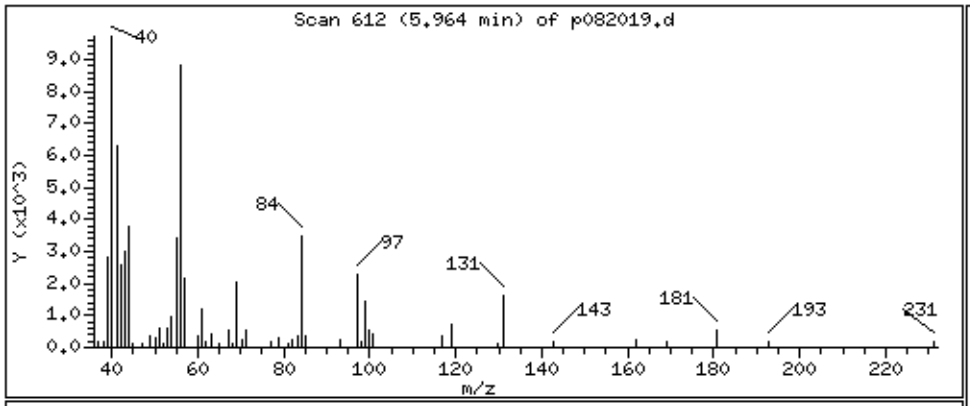
Operator: kk

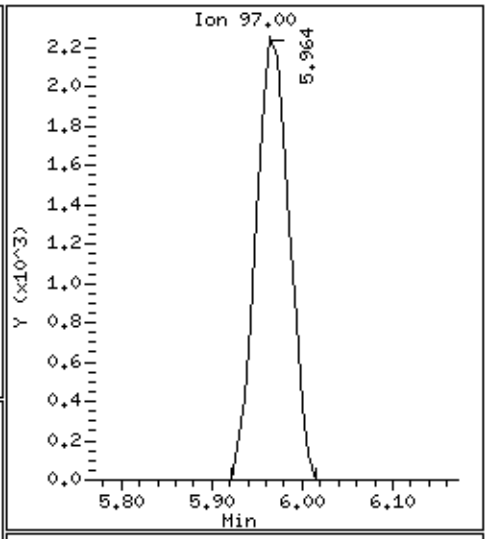
Column phase: RTX-624

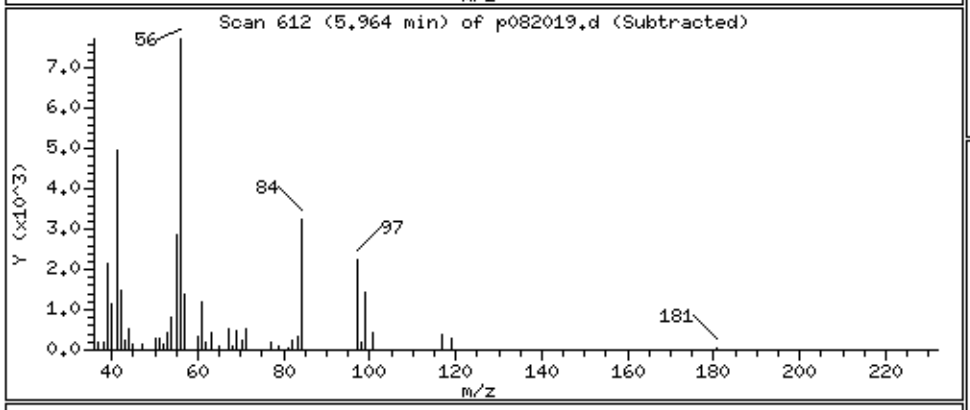
Column diameter: 0.25

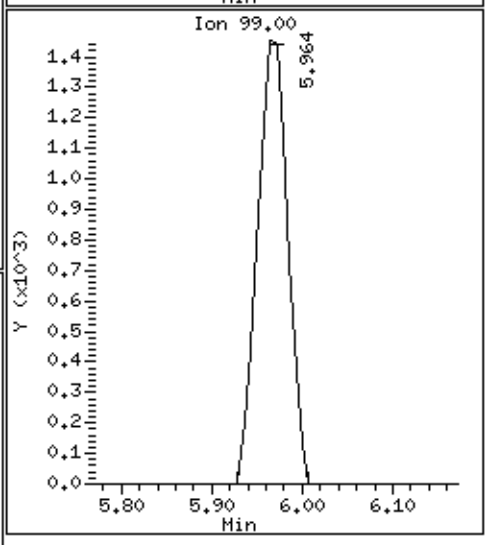
96 1,1,1-Trichloroethane

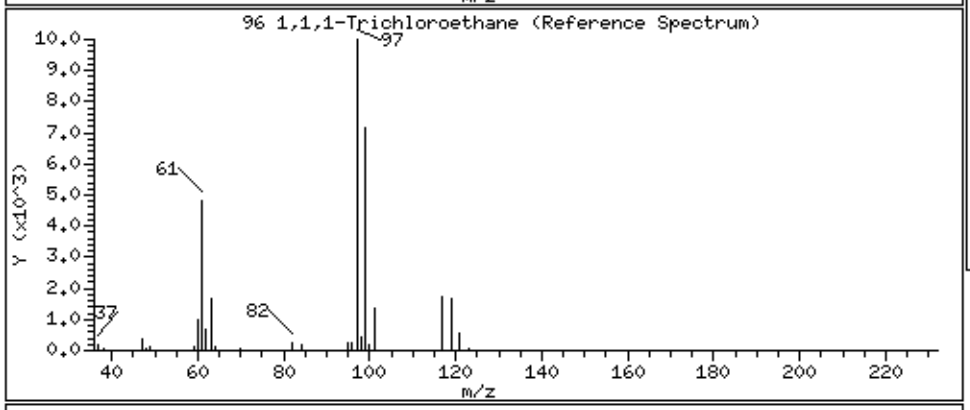
Concentration: 1.054 PPBV

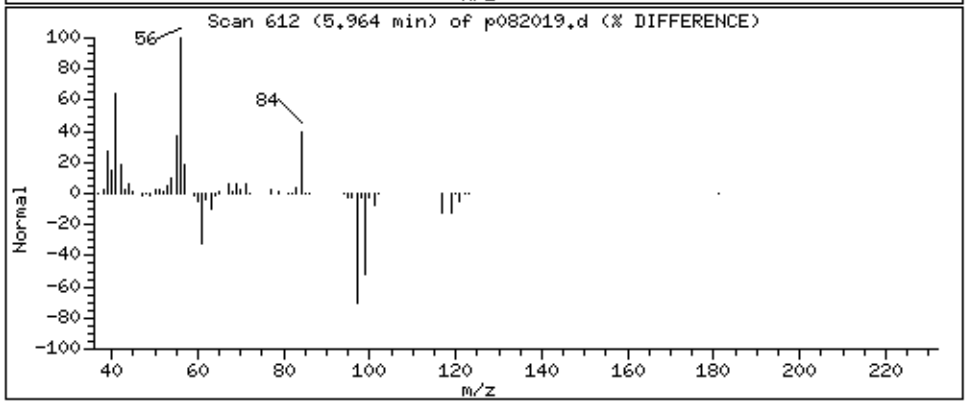












Data File: /chem/msdp.i/20AUG21.b/p082019.d

Date : 20-AUG-2021 23:16

Client ID:

Instrument: msdp.i

Sample Info: 200ml 01022

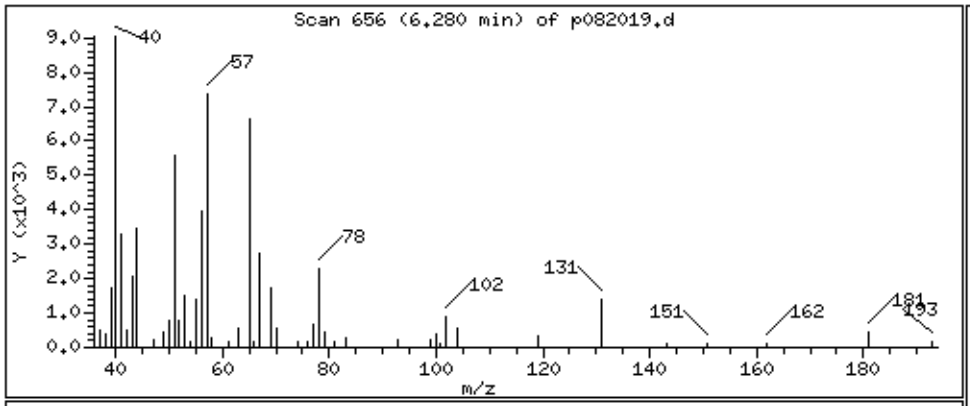
Operator: kk

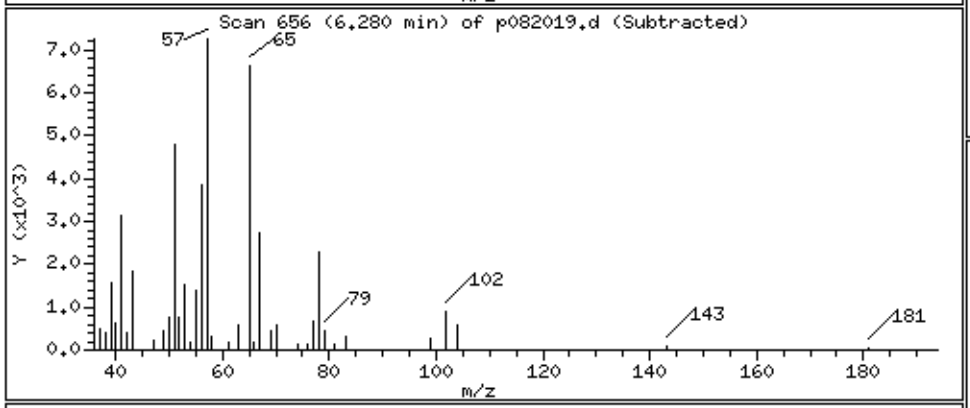
Column phase: RTX-624

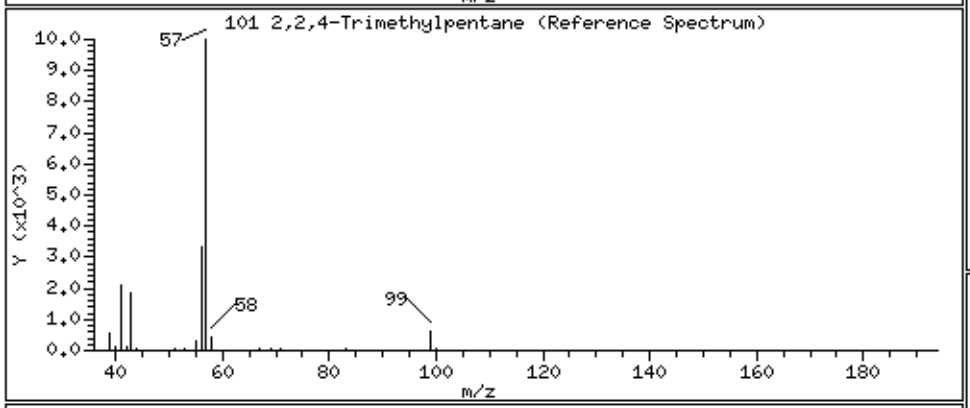
Column diameter: 0.25

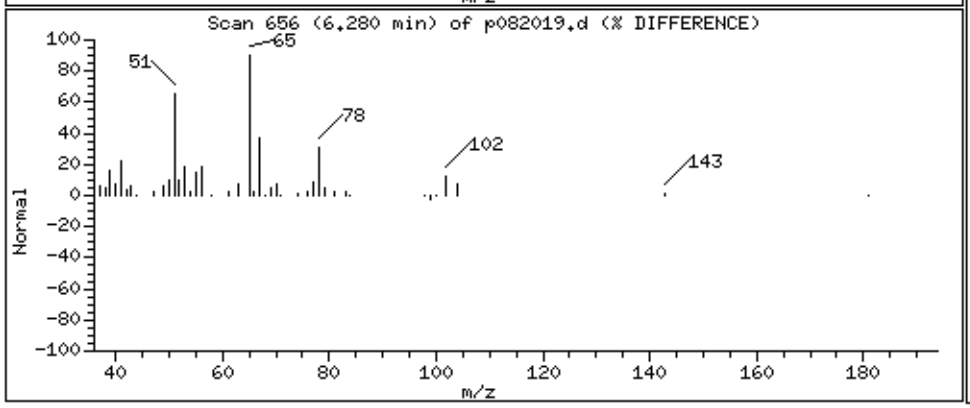
101 2,2,4-Trimethylpentane

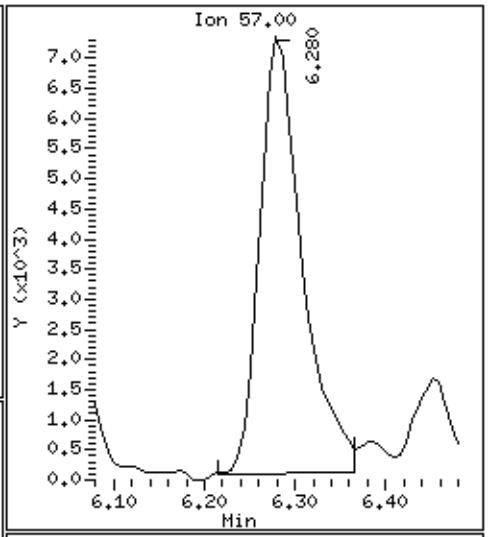
Concentration: 1.244 PPBV

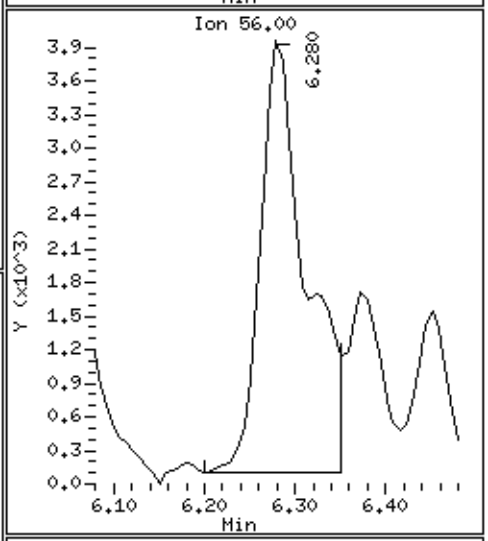


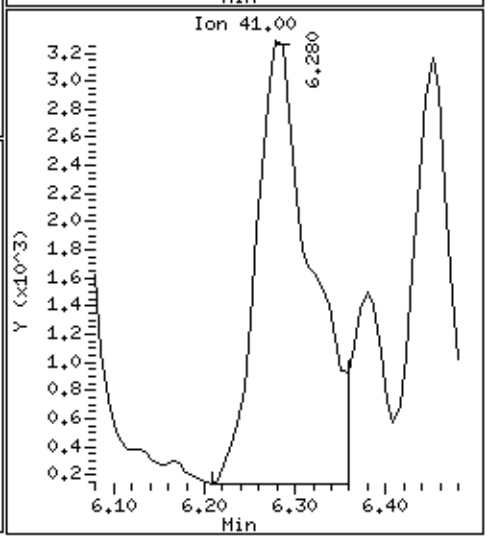












Data File: /chem/msdp.i/20AUG21.b/p082019.d

Date : 20-AUG-2021 23:16

Client ID:

Instrument: msdp.i

Sample Info: 200ml 01022

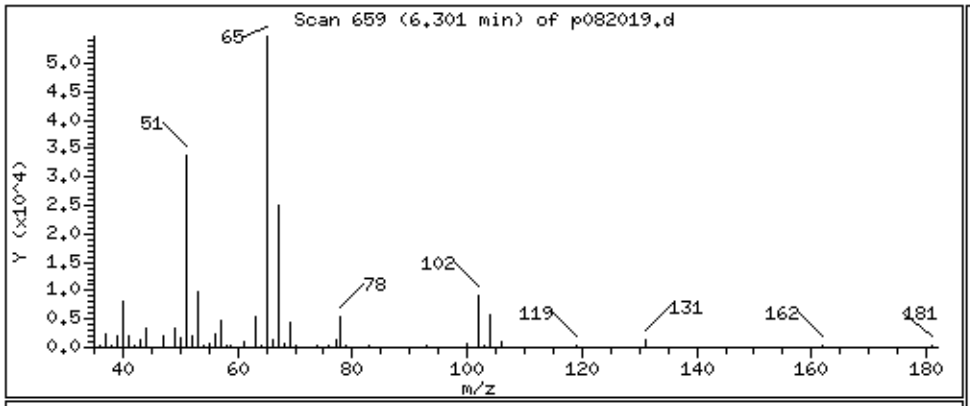
Operator: kk

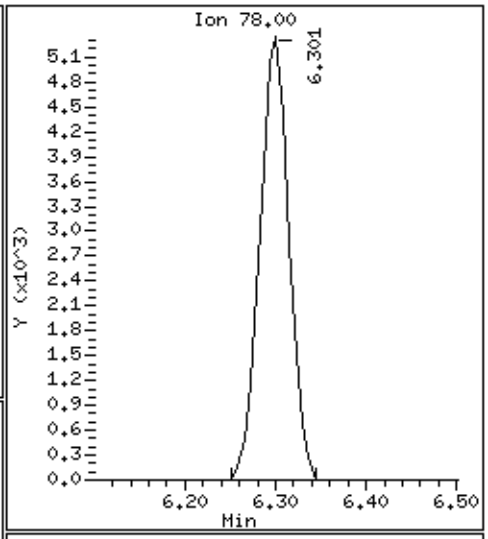
Column phase: RTX-624

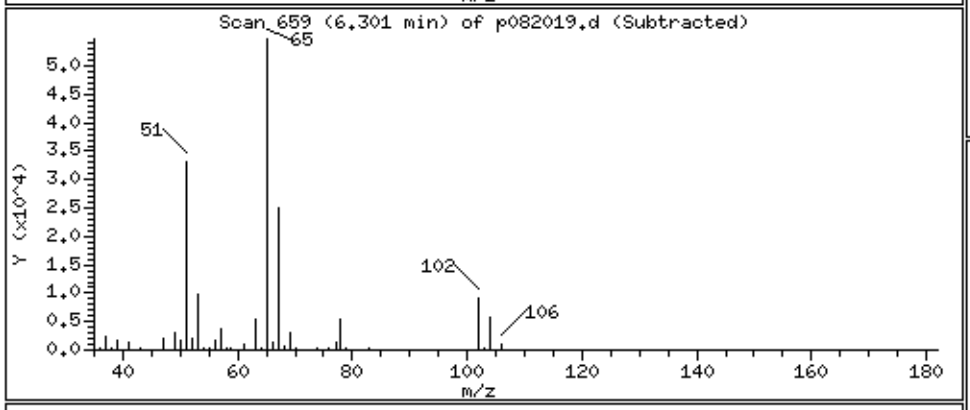
Column diameter: 0.25

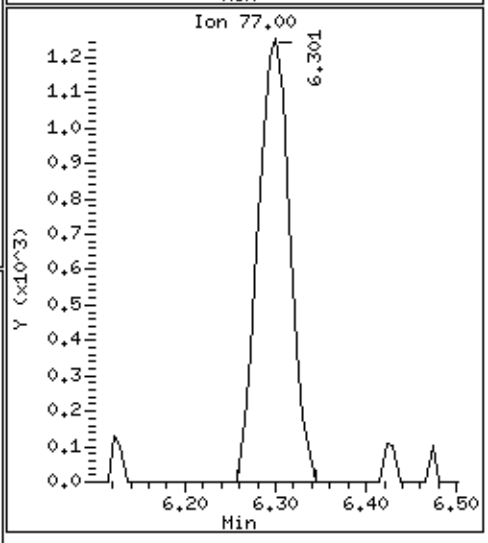
102 Benzene

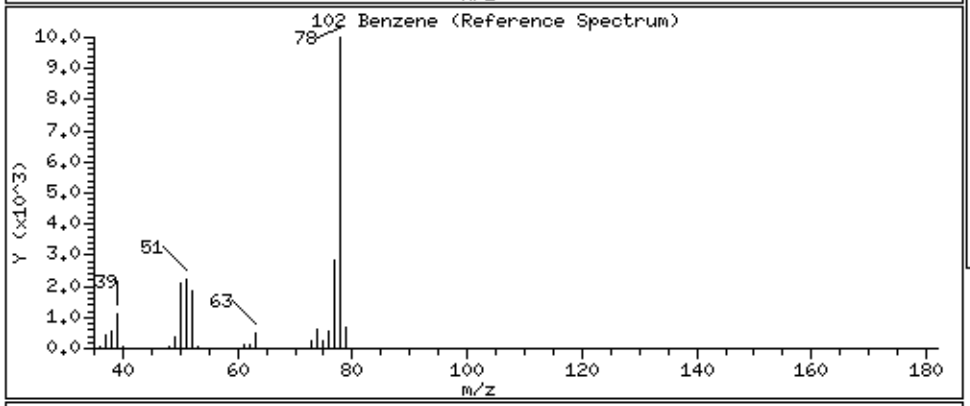
Concentration: 1.792 PPBV

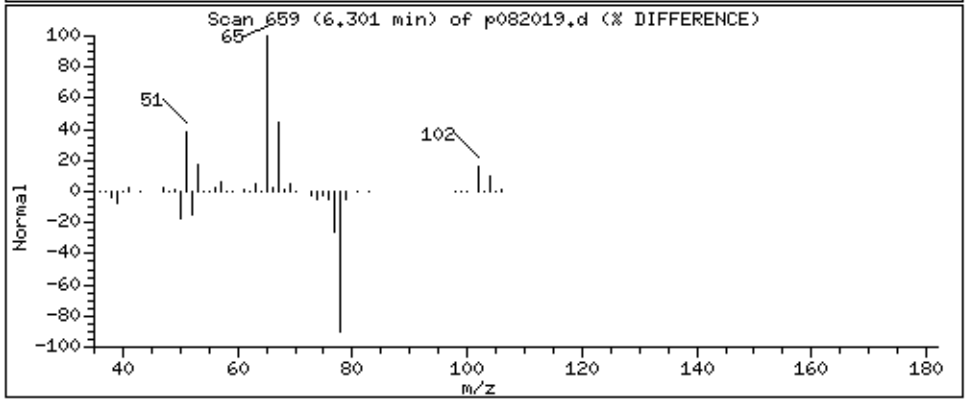












Data File: /chem/msdp.i/20AUG21.b/p082019.d

Date : 20-AUG-2021 23:16

Client ID:

Instrument: msdp.i

Sample Info: 200ml 01022

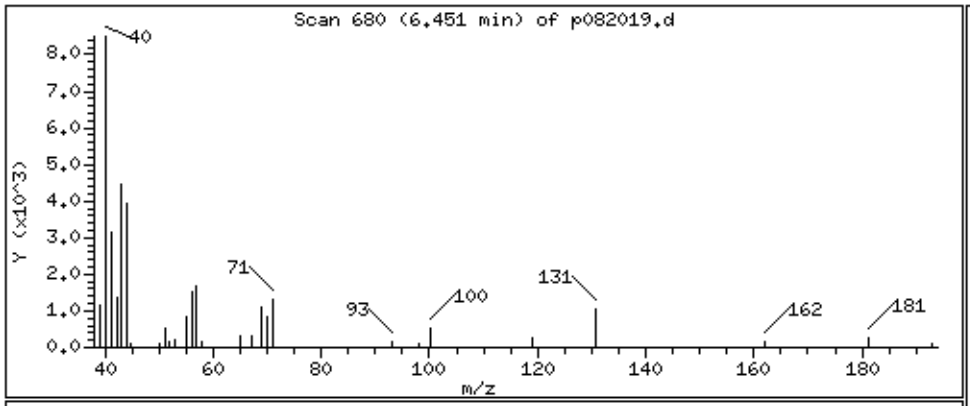
Operator: kk

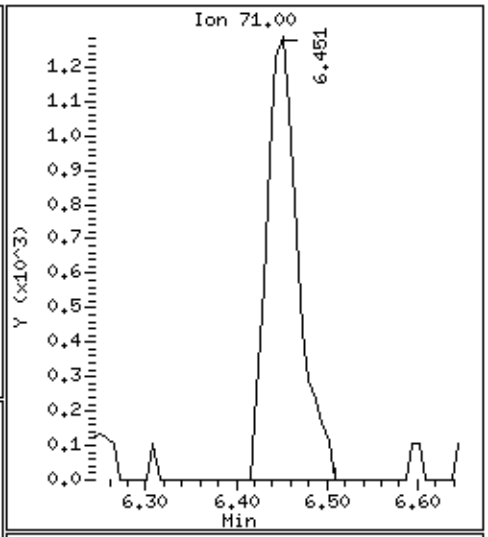
Column phase: RTX-624

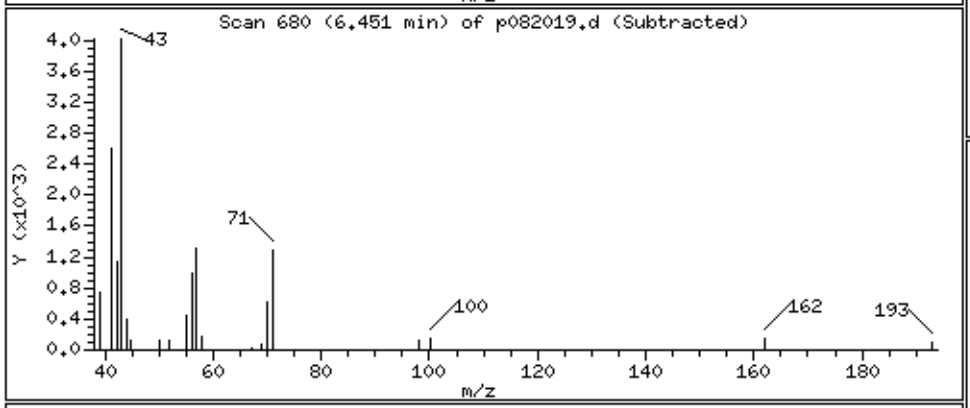
Column diameter: 0.25

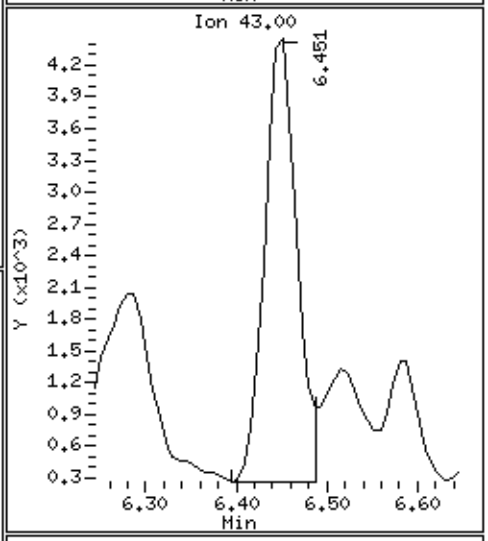
107 Heptane

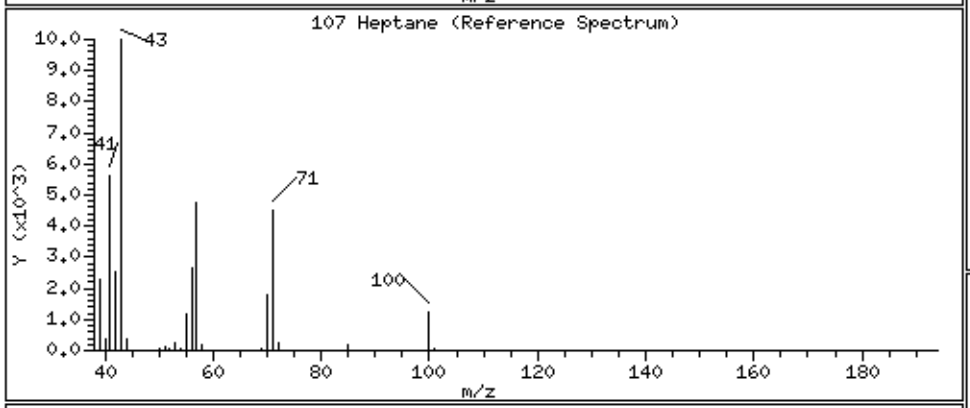
Concentration: 1.180 PPBV

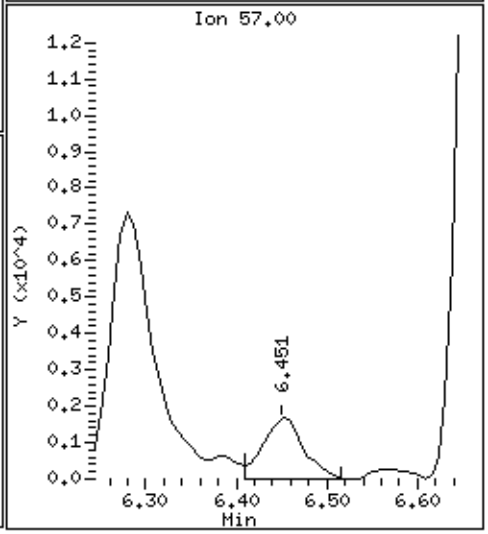


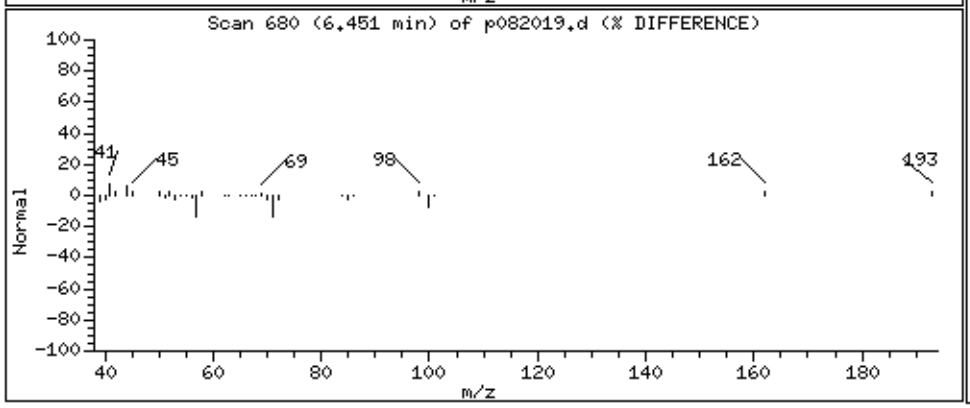












Data File: /chem/msdp.i/20AUG21.b/p082019.d

Date : 20-AUG-2021 23:16

Client ID:

Instrument: msdp.i

Sample Info: 200ml 01022

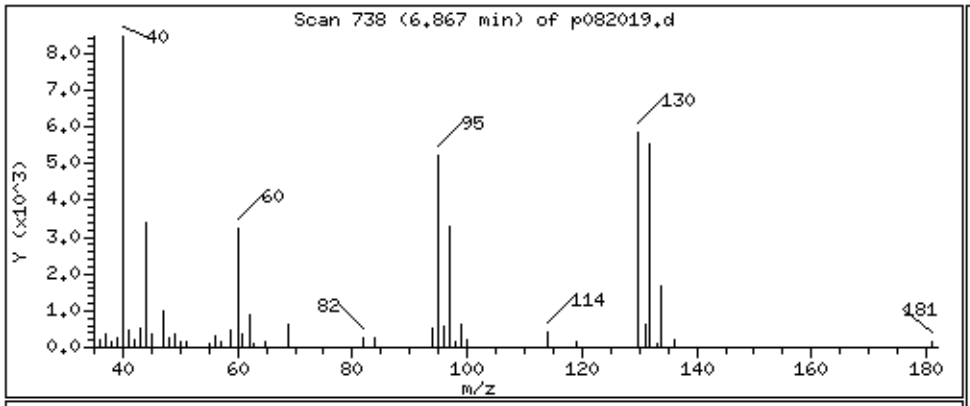
Operator: kk

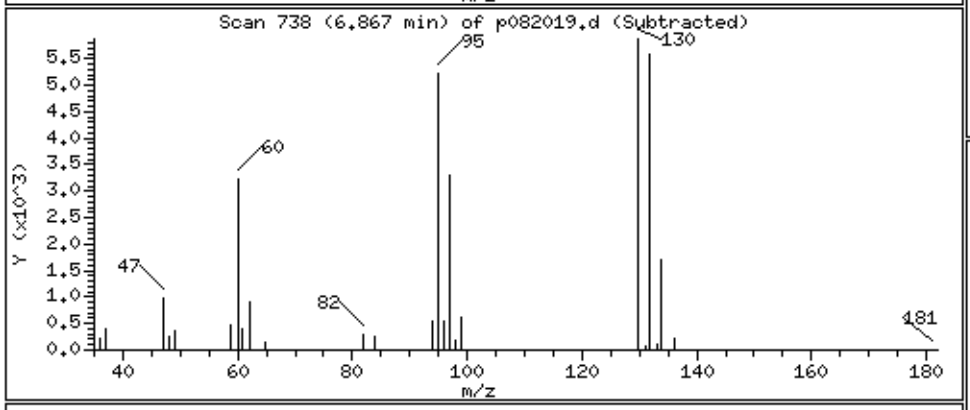
Column phase: RTX-624

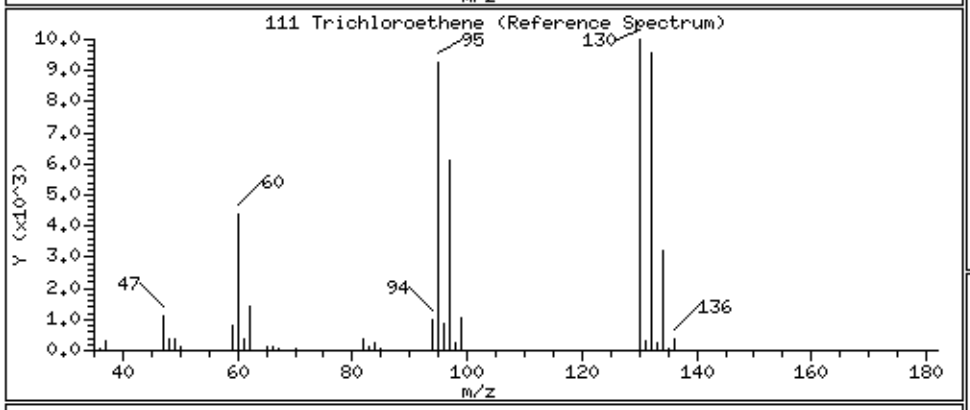
Column diameter: 0.25

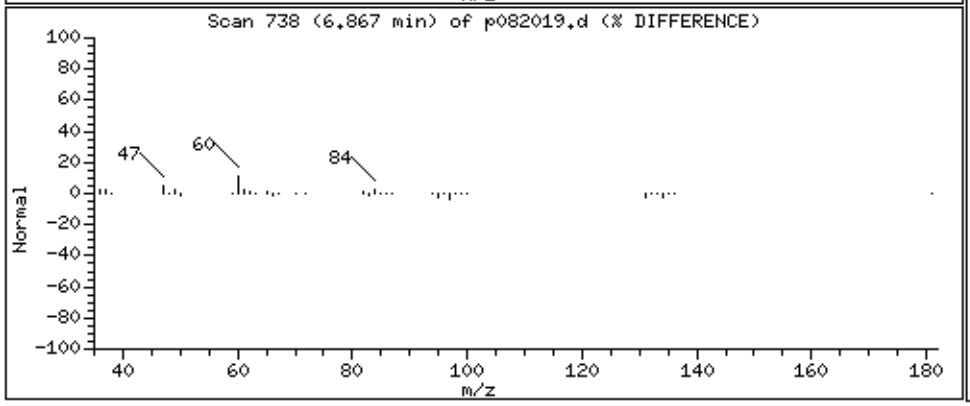
111 Trichloroethene

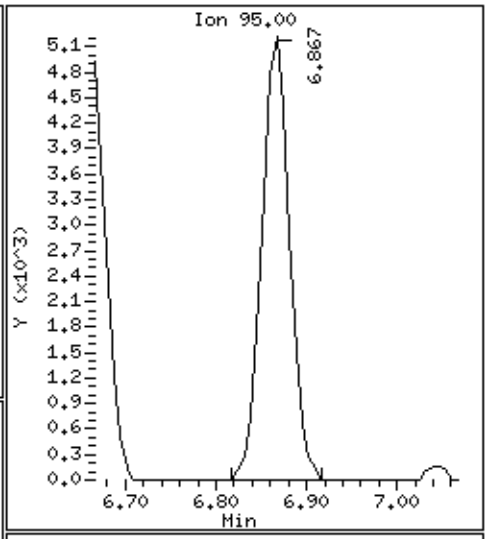
Concentration: 3.438 PPBV

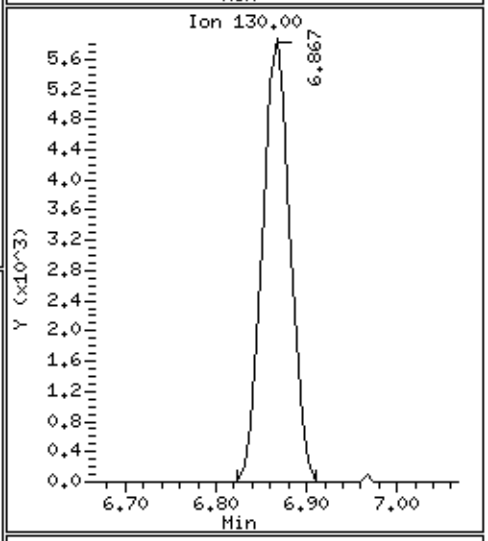


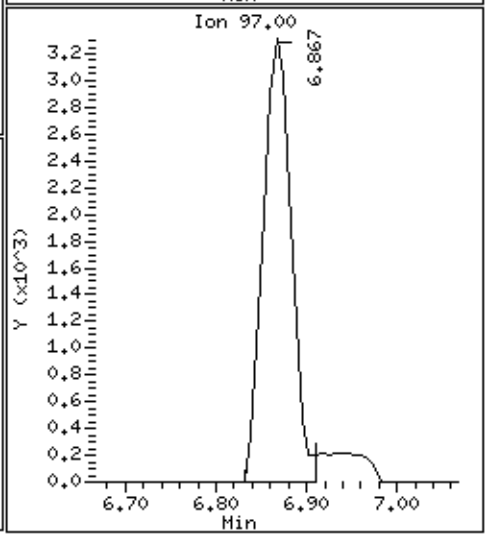












Data File: /chem/msdp.i/20AUG21.b/p082019.d

Date : 20-AUG-2021 23:16

Client ID:

Instrument: msdp.i

Sample Info: 200ml 01022

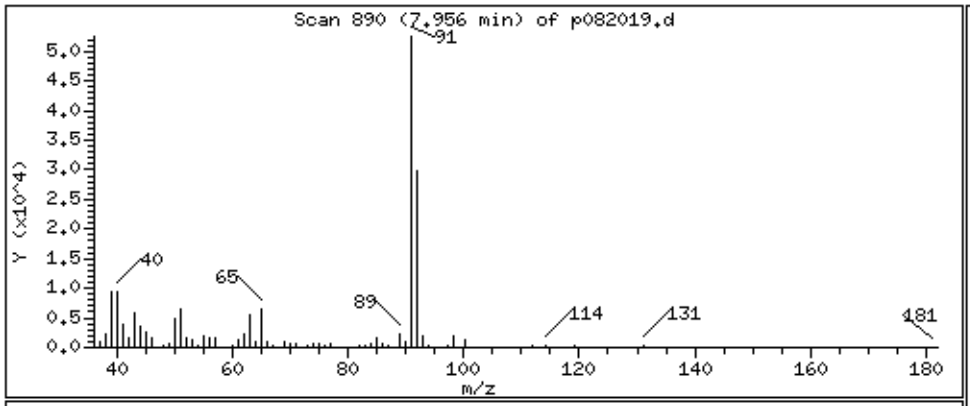
Operator: kk

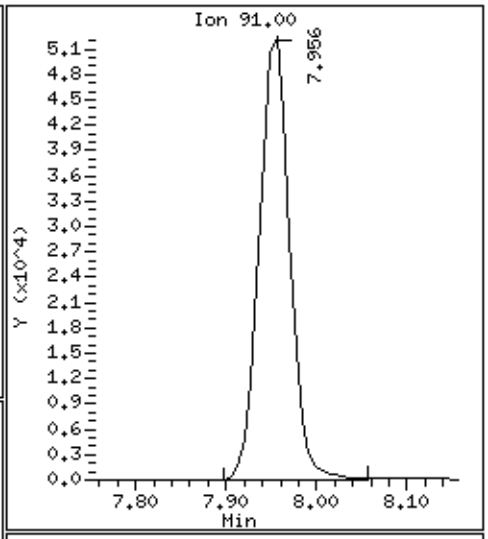
Column phase: RTX-624

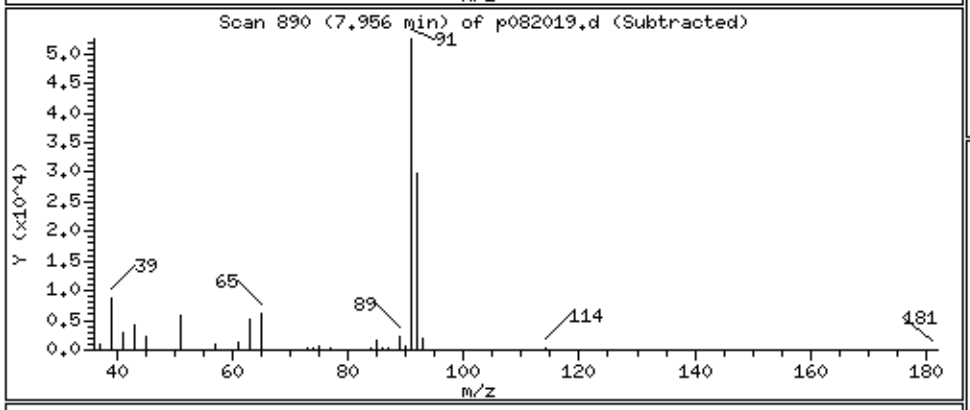
Column diameter: 0.25

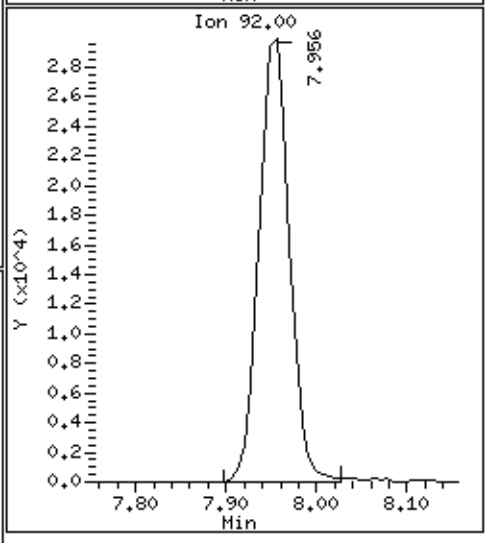
137 Toluene

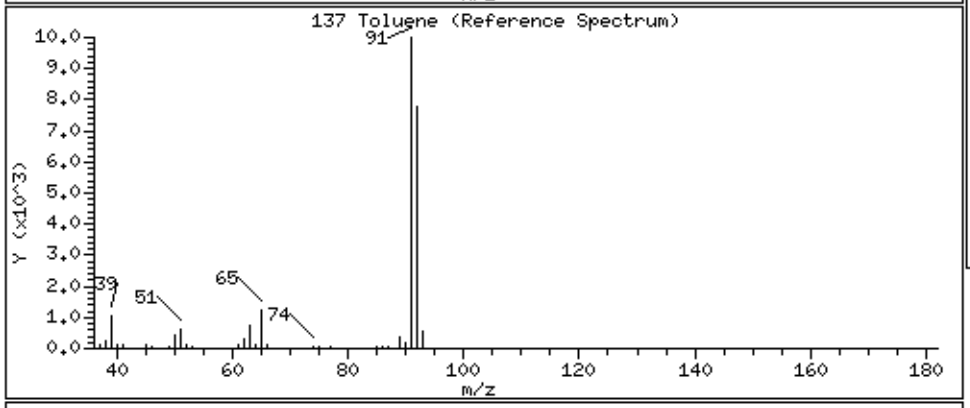
Concentration: 13.295 PPBV

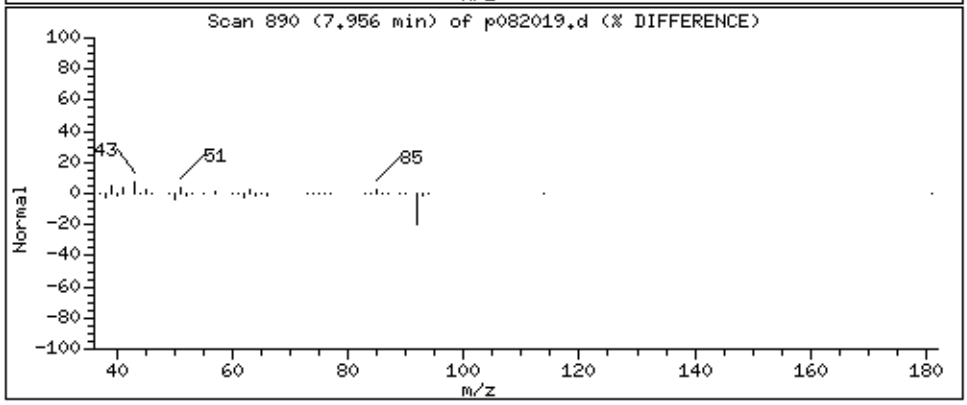












Data File: /chem/msdp.i/20AUG21.b/p082019.d

Date : 20-AUG-2021 23:16

Client ID:

Instrument: msdp.i

Sample Info: 200ml 01022

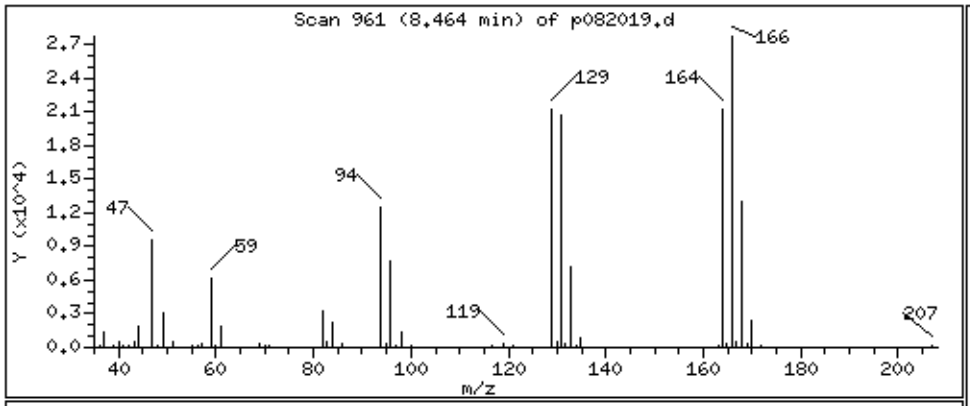
Operator: kk

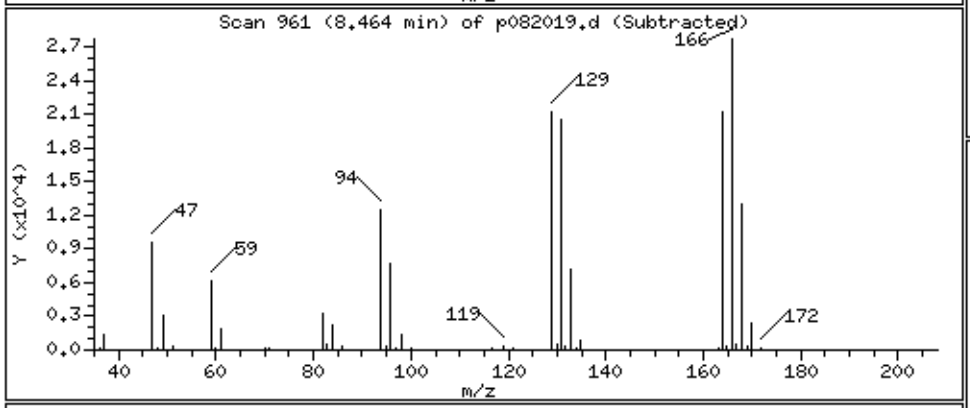
Column phase: RTX-624

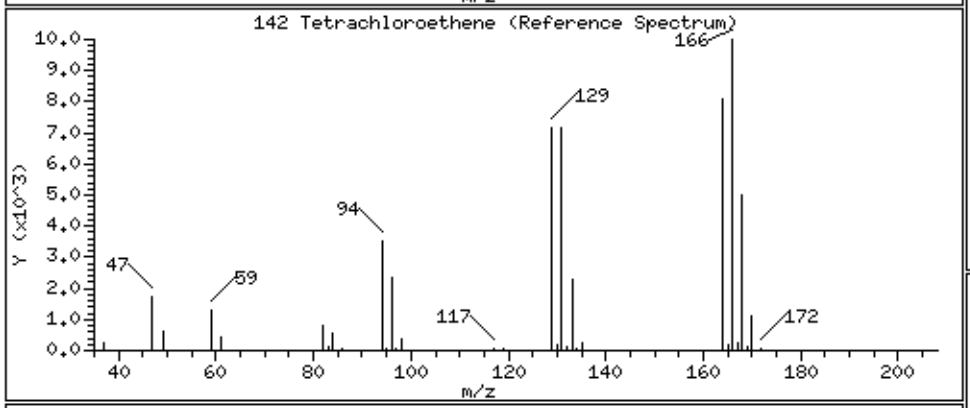
Column diameter: 0.25

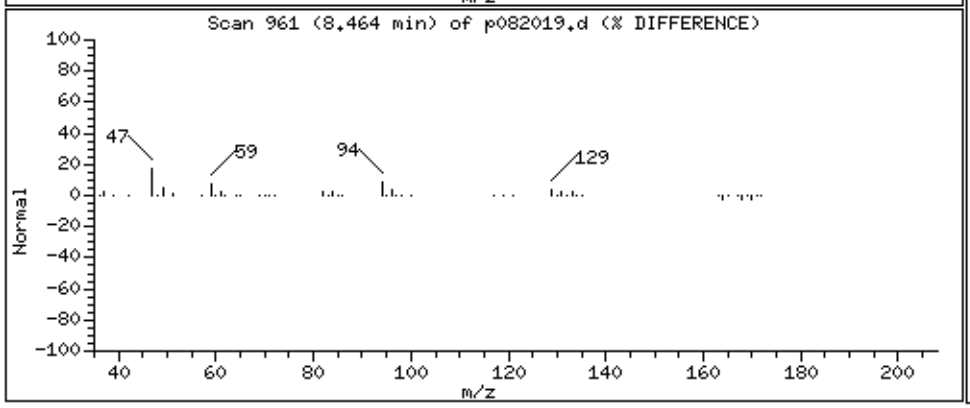
142 Tetrachloroethene

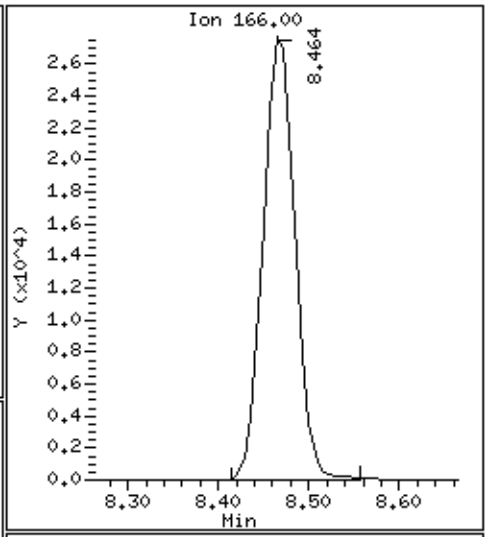
Concentration: 14.567 PPBV

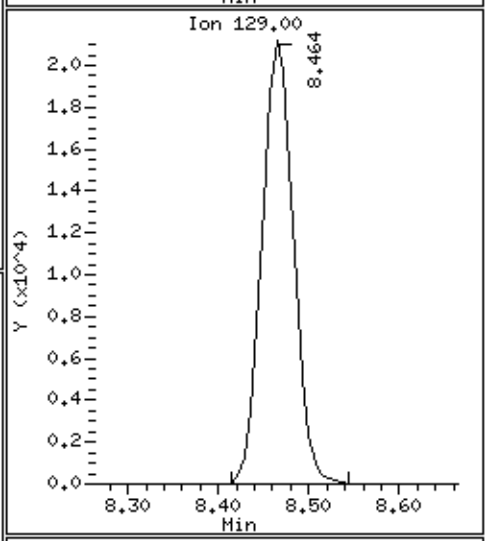


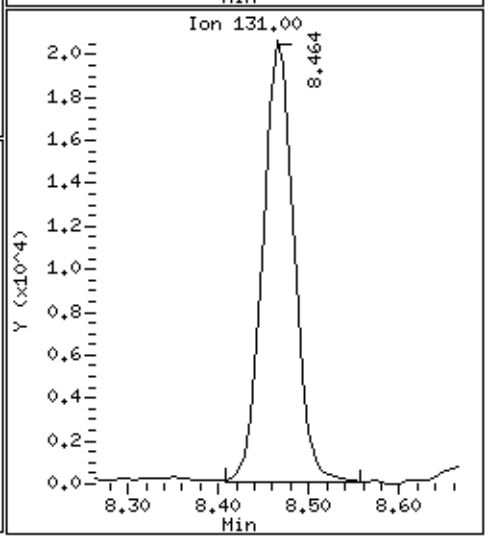












Data File: /chem/msdp.i/20AUG21.b/p082019.d

Date : 20-AUG-2021 23:16

Client ID:

Instrument: msdp.i

Sample Info: 200ml 01022

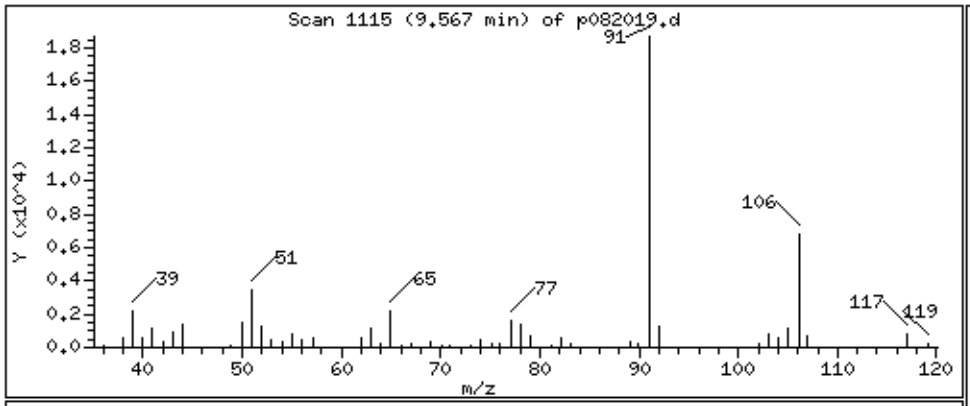
Operator: kk

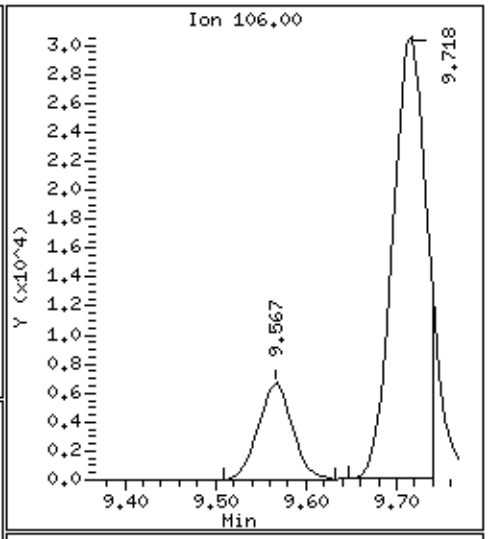
Column phase: RTX-624

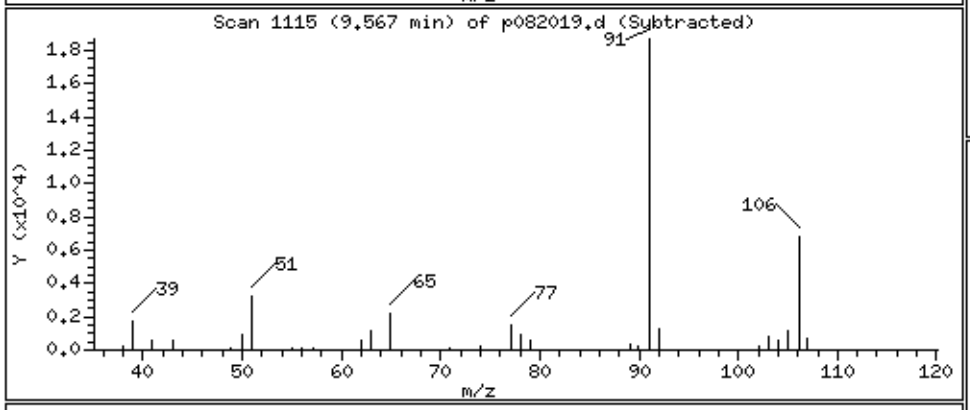
Column diameter: 0.25

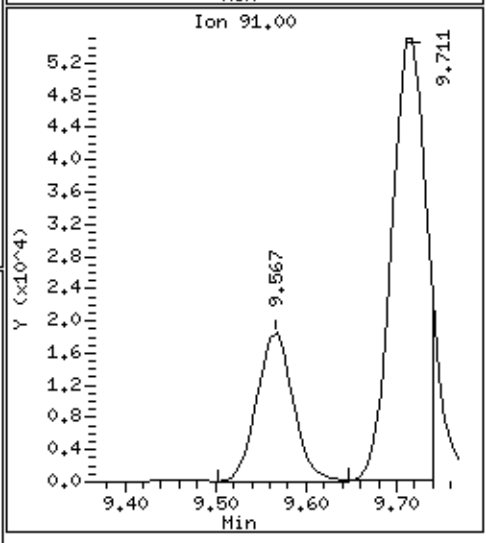
155 Ethyl Benzene

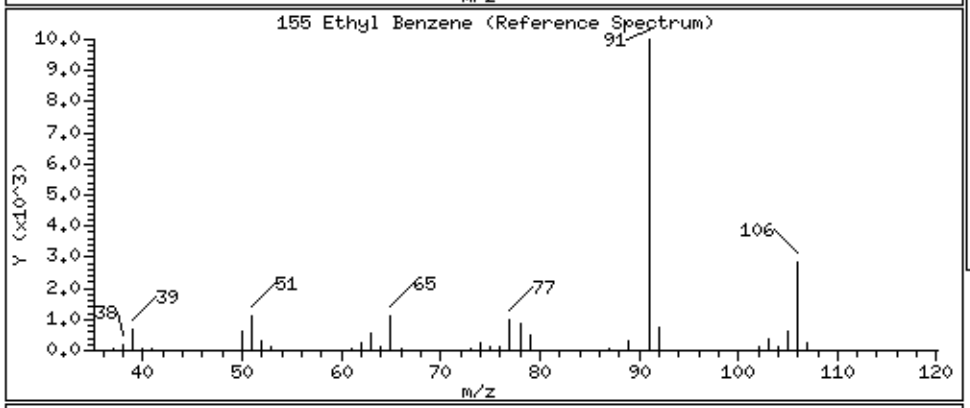
Concentration: 4.163 PPBV

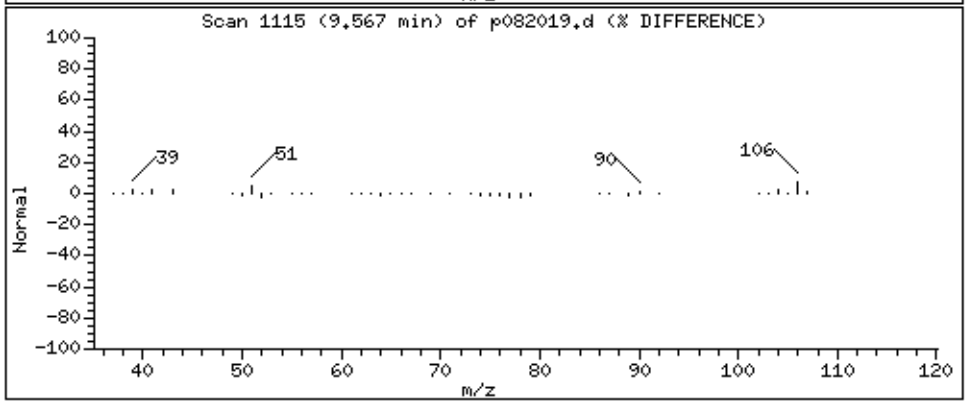












Data File: /chem/msdp.i/20AUG21.b/p082019.d

Date : 20-AUG-2021 23:16

Client ID:

Instrument: msdp.i

Sample Info: 200ml 01022

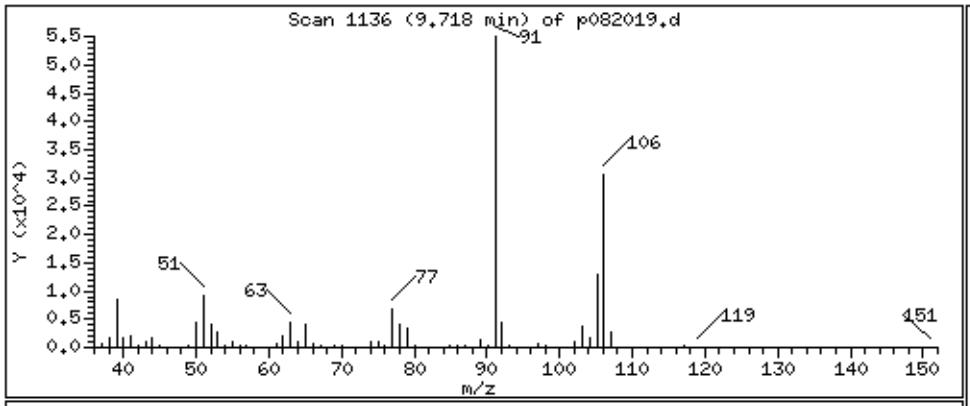
Operator: kk

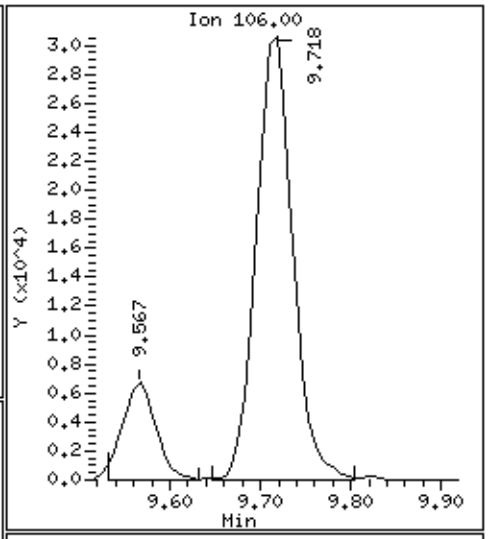
Column phase: RTX-624

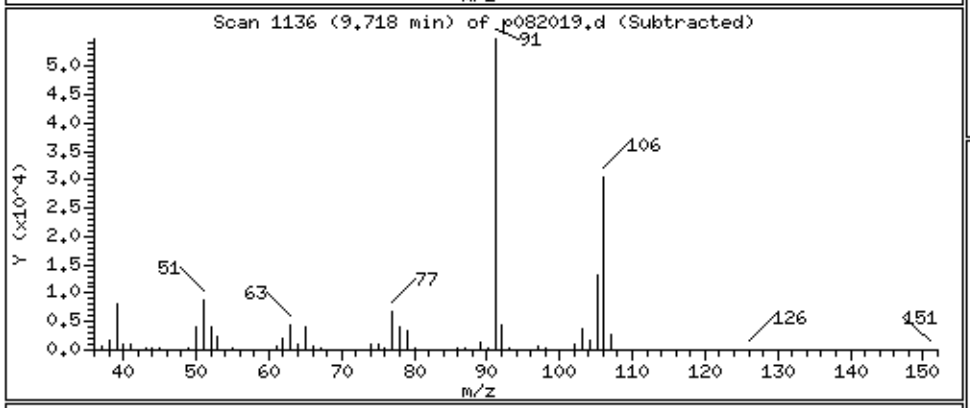
Column diameter: 0.25

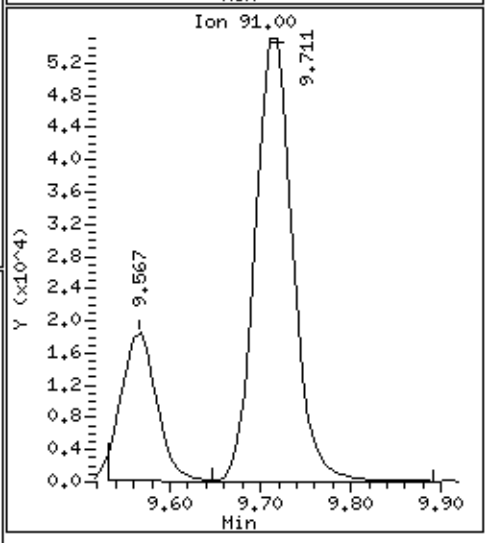
158 m,p-Xylene

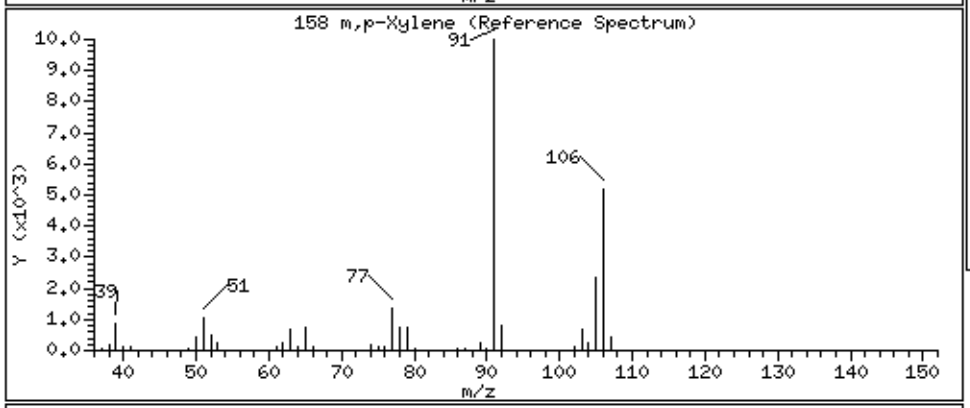
Concentration: 16.080 PPBV

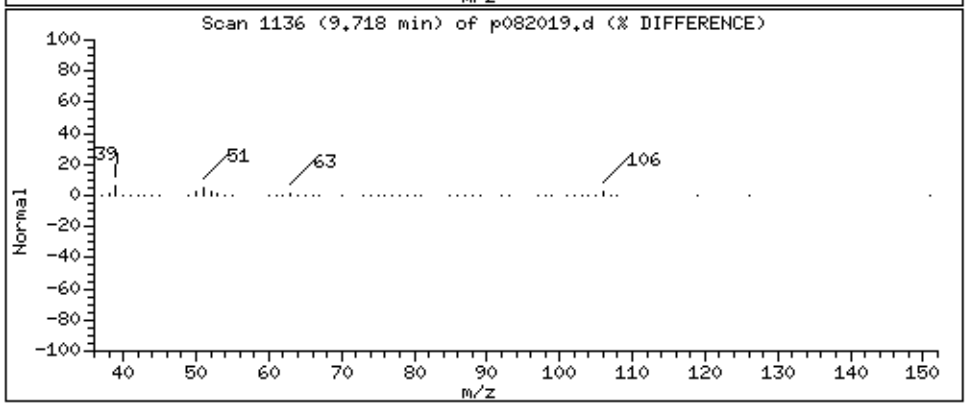












Data File: /chem/msdp.i/20AUG21.b/p082019.d

Date : 20-AUG-2021 23:16

Client ID:

Instrument: msdp.i

Sample Info: 200ml 01022

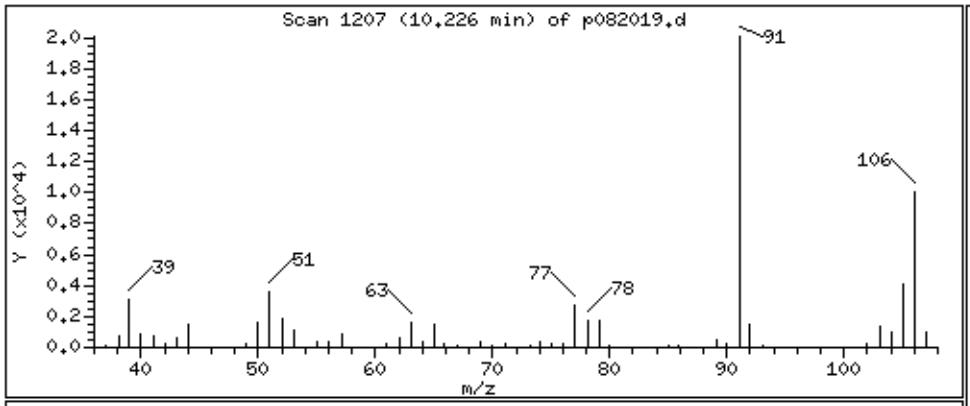
Operator: kk

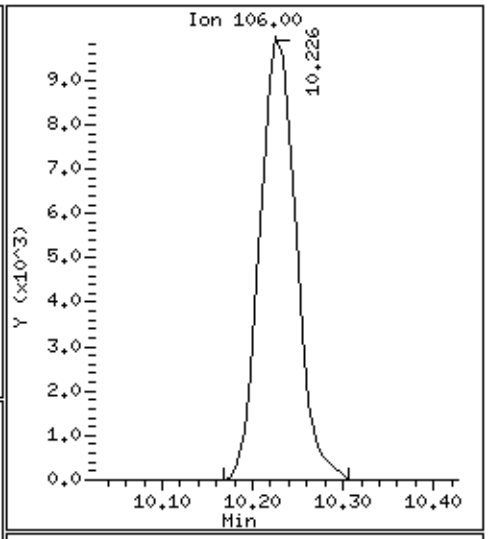
Column phase: RTX-624

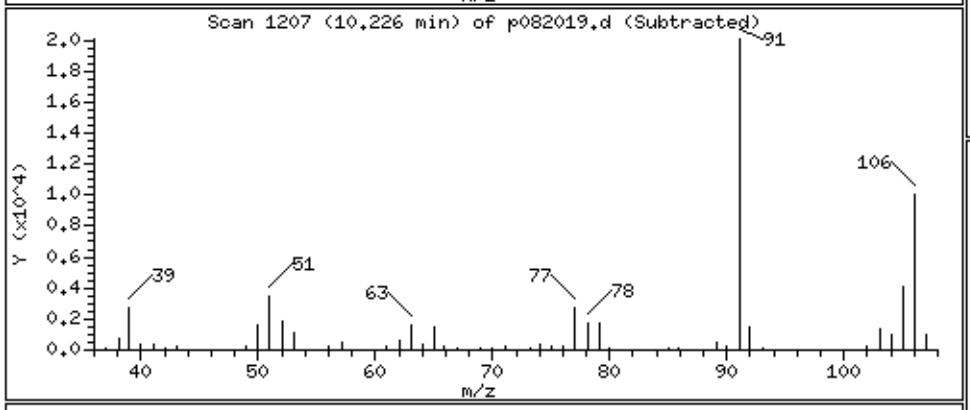
Column diameter: 0.25

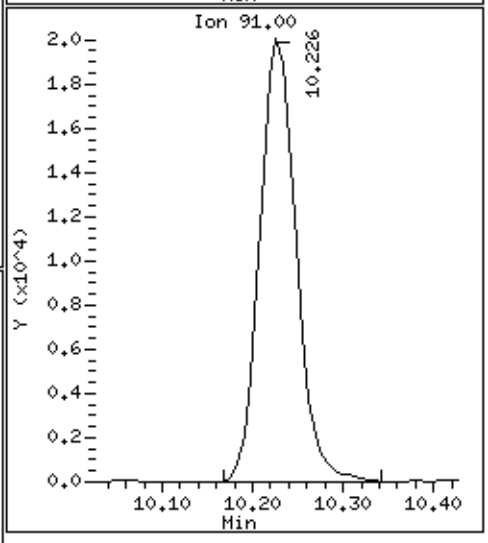
164 o-Xylene

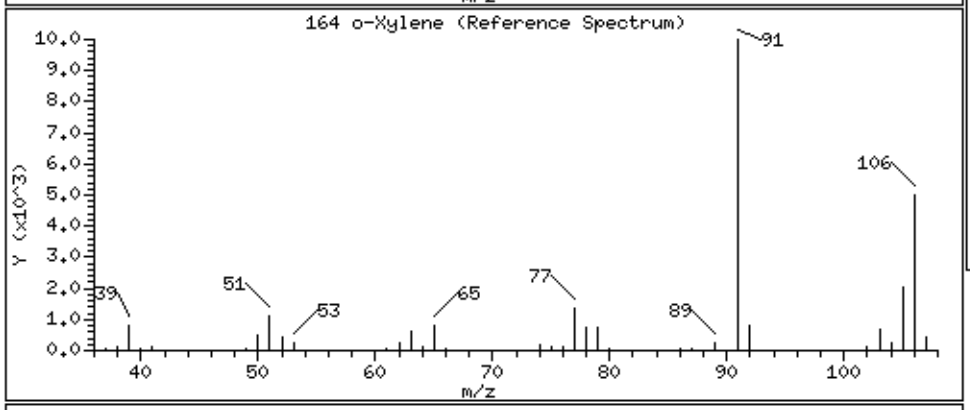
Concentration: 5.424 PPBV

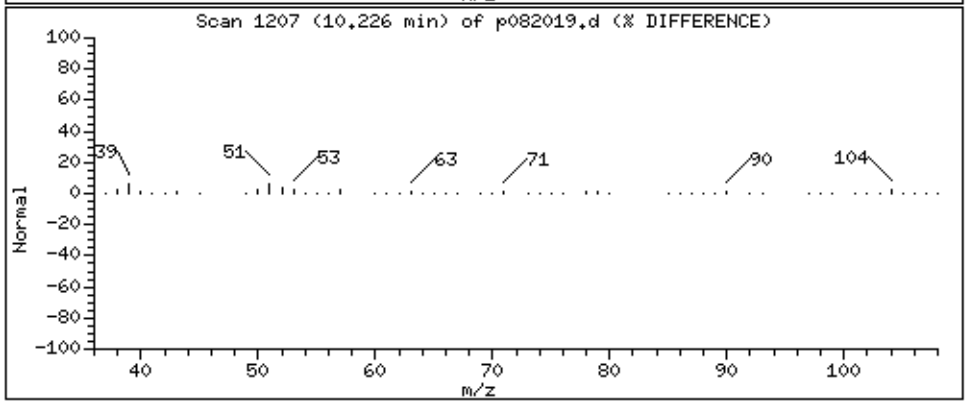












Data File: /chem/msdp.i/20AUG21.b/p082019.d

Page 20

Date : 20-AUG-2021 23:16

Client ID:

Instrument: msdp.i

Sample Info: 200ml 01022

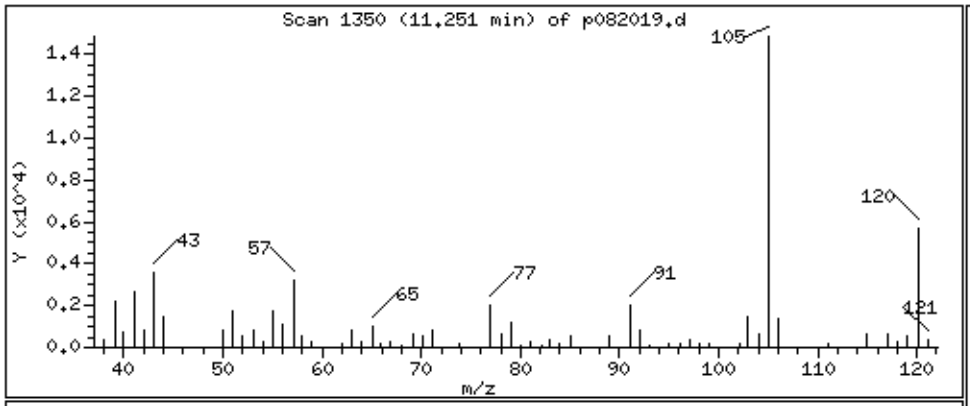
Operator: kk

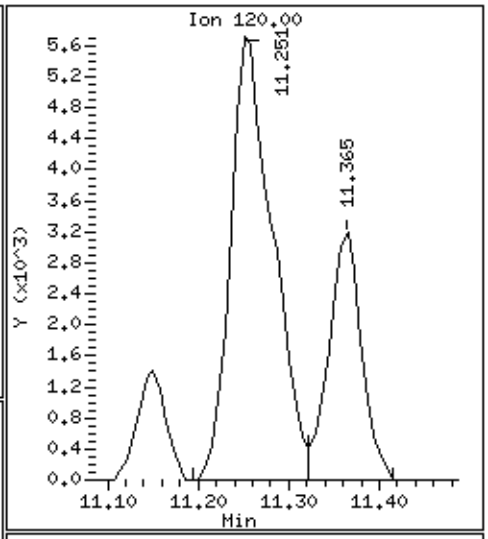
Column phase: RTX-624

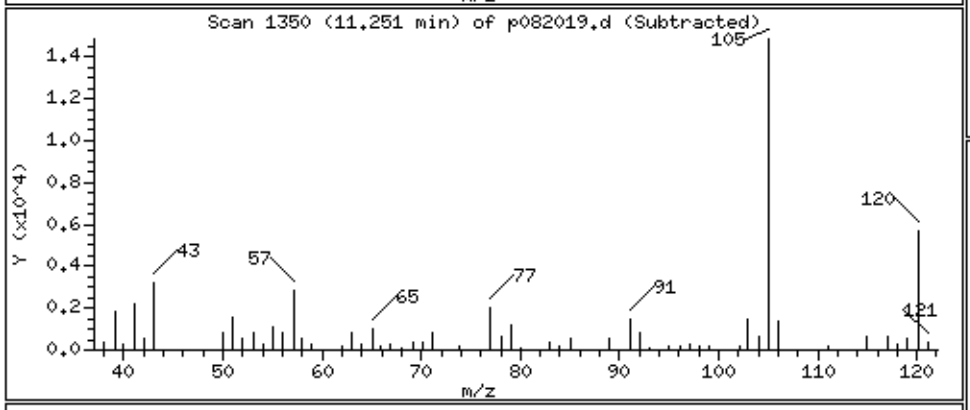
Column diameter: 0.25

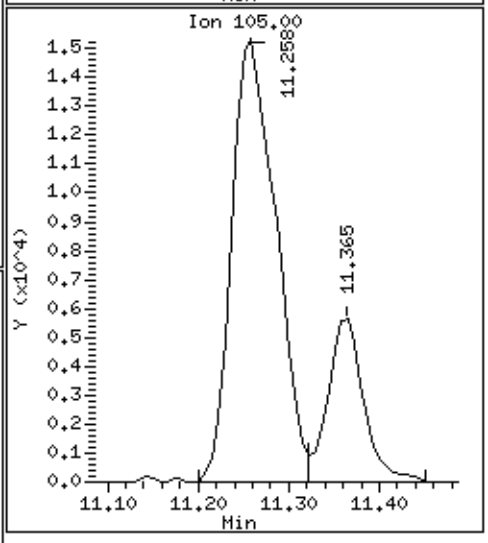
183 4-Ethyltoluene

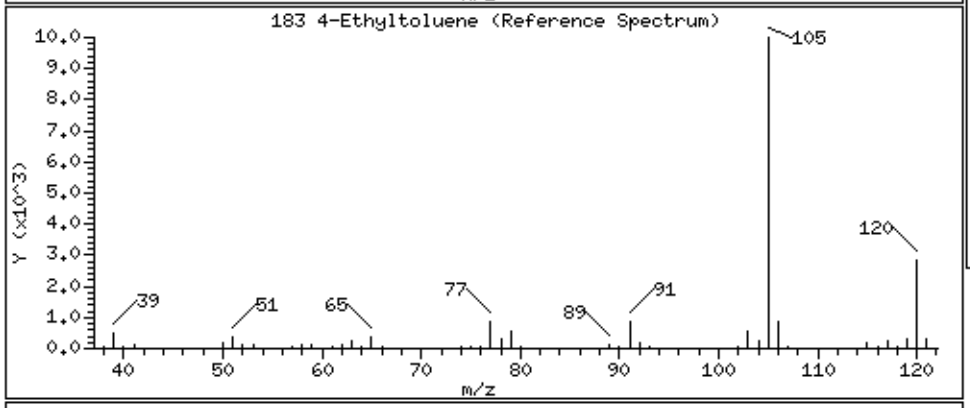
Concentration: 3.596 PPBV

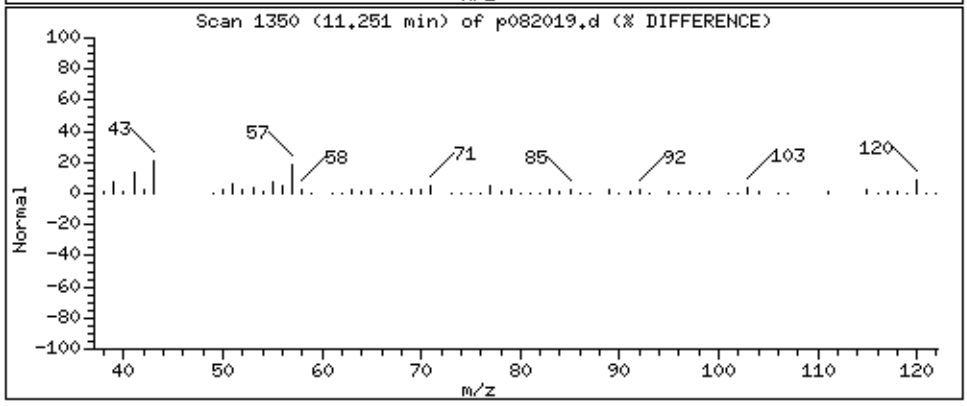












Data File: /chem/msdp.i/20AUG21.b/p082019.d

Date : 20-AUG-2021 23:16

Client ID:

Instrument: msdp.i

Sample Info: 200ml 01022

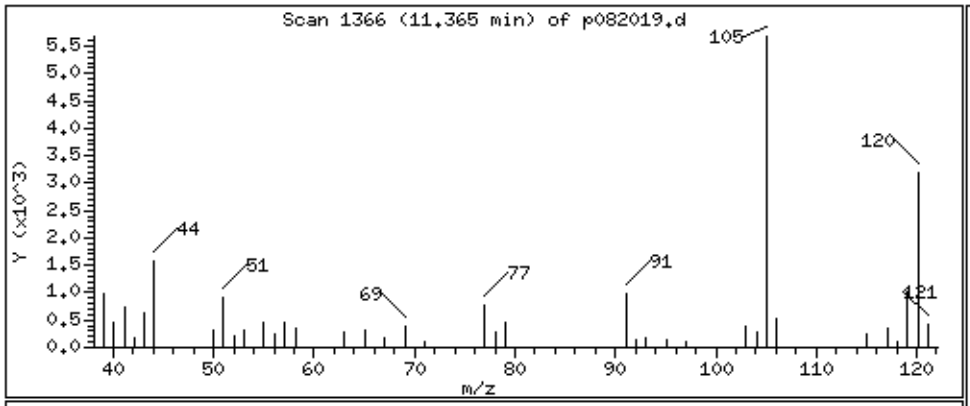
Operator: kk

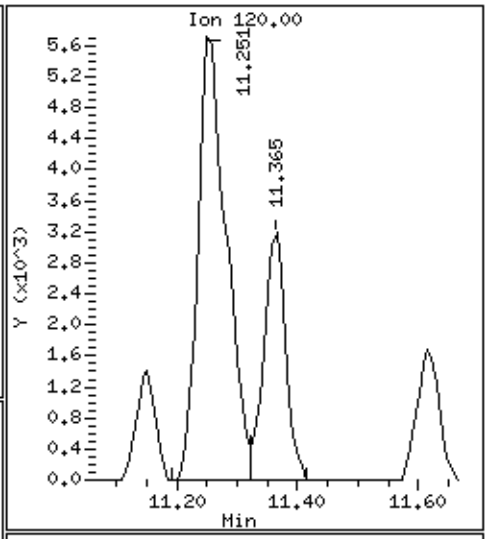
Column phase: RTX-624

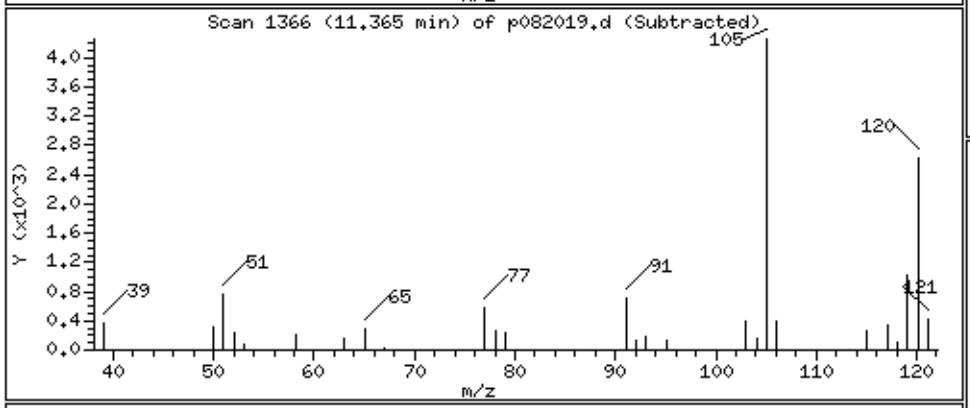
Column diameter: 0.25

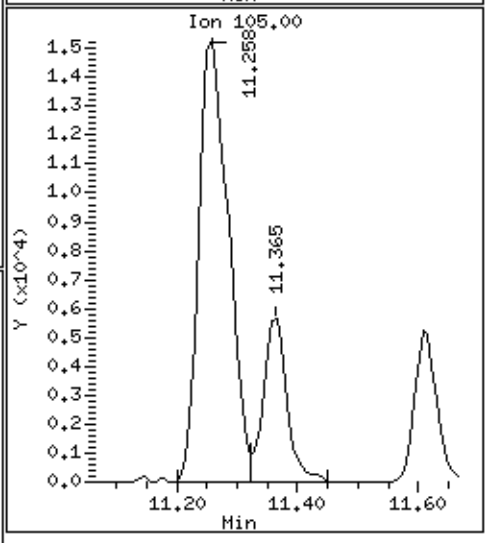
185 1,3,5-Trimethylbenzene

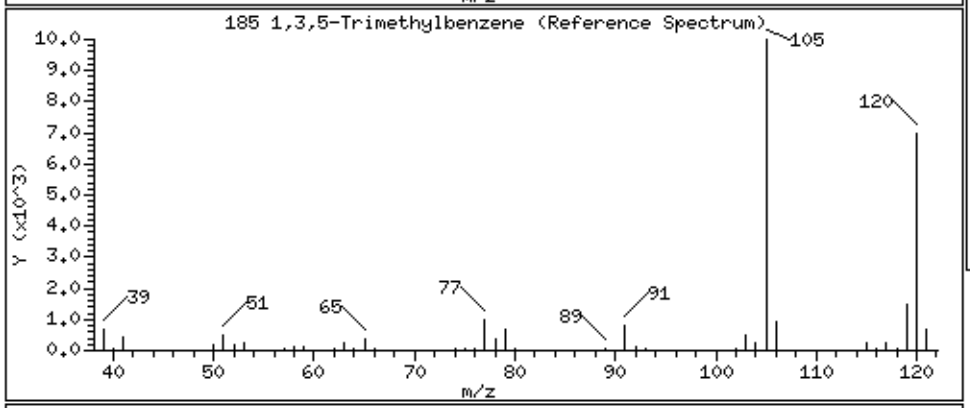
Concentration: 1.139 PPBV

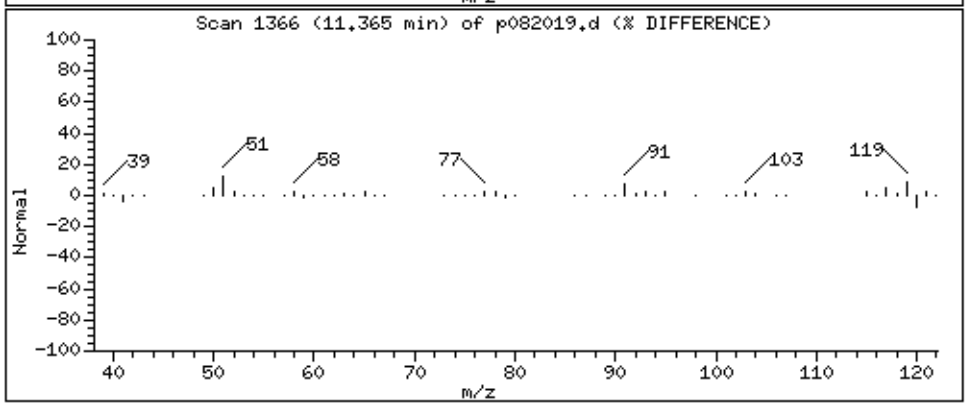












Data File: /chem/msdp.i/20AUG21.b/p082019.d

Date : 20-AUG-2021 23:16

Client ID:

Instrument: msdp.i

Sample Info: 200ml 01022

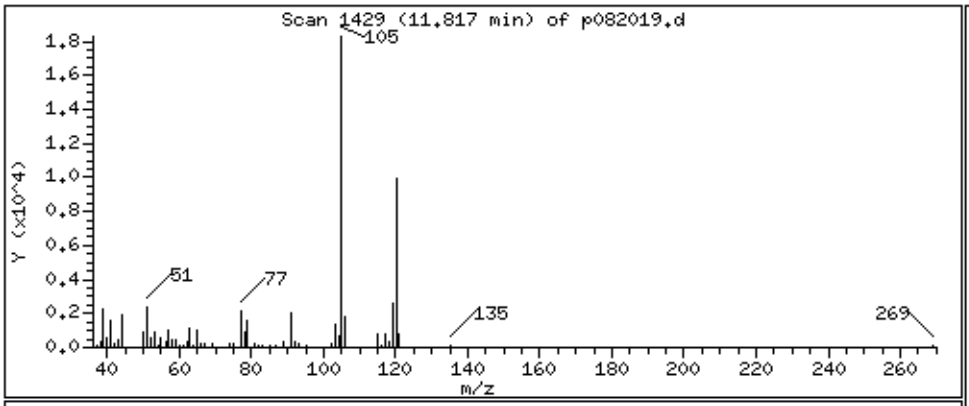
Operator: kk

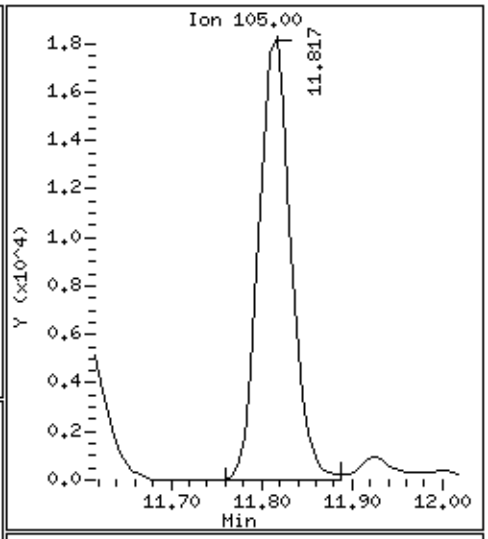
Column phase: RTX-624

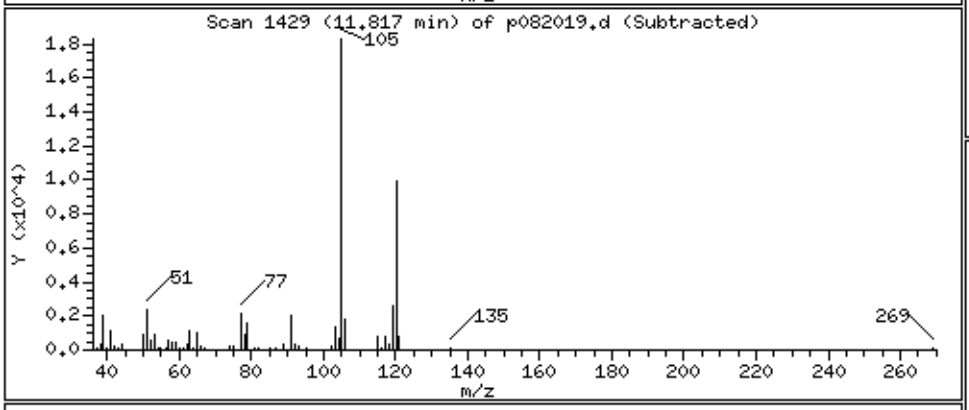
Column diameter: 0.25

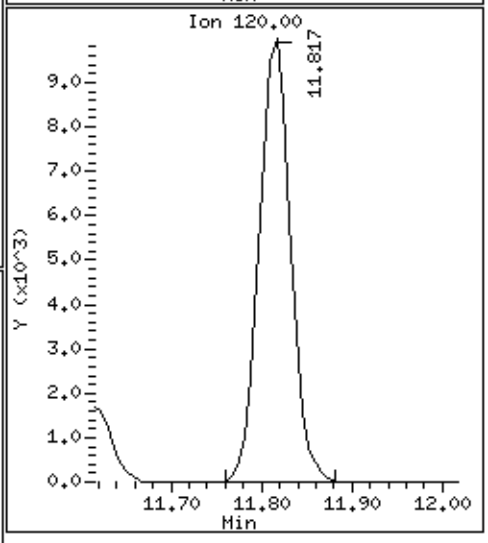
190 1,2,4-Trimethylbenzene

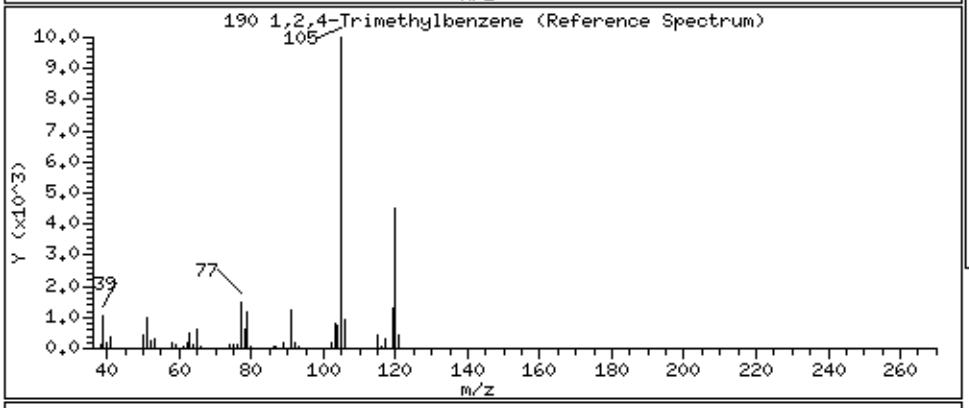
Concentration: 3.350 PPBV

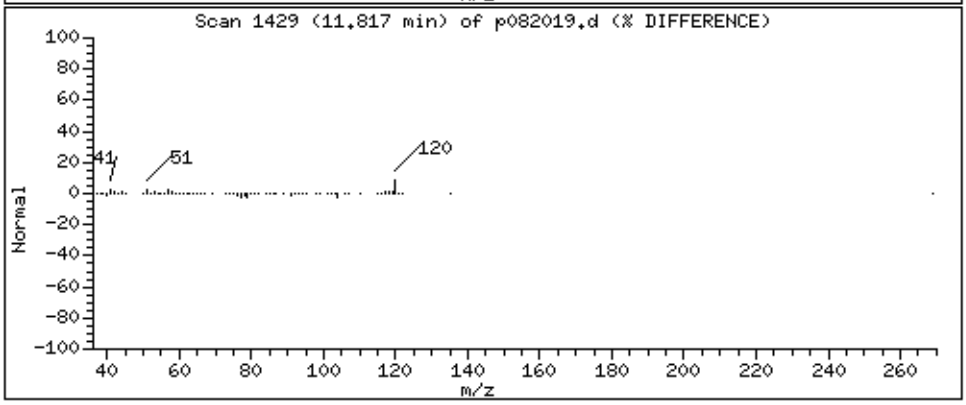












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Client Sample ID: SG-VW24A-05

Lab ID#: 2108390-15A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p082024**	**Date of Collection:**	**8/17/21 8:25:00 AM**
Dil. Factor:	**2.02**	**Date of Analysis:**	**8/21/21 01:44 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1,2-Tetrachloroethane	4.0	Not Detected	28	Not Detected
1,1,1-Trichloroethane	1.0	Not Detected	5.5	Not Detected
1,1,2,2-Tetrachloroethane	1.0	Not Detected	6.9	Not Detected
1,1,2-Trichloroethane	1.0	Not Detected	5.5	Not Detected
1,1-Dichloroethane	1.0	Not Detected	4.1	Not Detected
1,1-Dichloroethene	1.0	Not Detected	4.0	Not Detected
1,1-Difluoroethane	4.0	6.8	11	18
1,2,3-Trichloropropane	4.0	Not Detected	24	Not Detected
1,2,4-Trichlorobenzene	4.0	Not Detected	30	Not Detected
1,2,4-Trimethylbenzene	1.0	1.4	5.0	7.1
1,2-Dibromo-3-chloropropane	4.0	Not Detected	39	Not Detected
1,2-Dibromoethane (EDB)	1.0	Not Detected	7.8	Not Detected
1,2-Dichlorobenzene	1.0	Not Detected	6.1	Not Detected
1,2-Dichloroethane	1.0	Not Detected	4.1	Not Detected
1,2-Dichloropropane	1.0	Not Detected	4.7	Not Detected
1,3,5-Trimethylbenzene	1.0	Not Detected	5.0	Not Detected
1,3-Butadiene	1.0	Not Detected	2.2	Not Detected
1,3-Dichlorobenzene	1.0	Not Detected	6.1	Not Detected
1,4-Dichlorobenzene	1.0	Not Detected	6.1	Not Detected
1,4-Dioxane	4.0	Not Detected	14	Not Detected
2,2,4-Trimethylpentane	1.0	Not Detected	4.7	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.0	Not Detected	12	Not Detected
2-Hexanone	4.0	Not Detected	16	Not Detected
2-Propanol	4.0	5.2	9.9	13
3-Chloropropene	4.0	Not Detected	13	Not Detected
4-Ethyltoluene	1.0	1.4	5.0	7.1
4-Methyl-2-pentanone	1.0	Not Detected	4.1	Not Detected
Acetone	10	10	24	25
Acrolein	4.0	Not Detected	9.3	Not Detected
Acrylonitrile	4.0	Not Detected	8.8	Not Detected
alpha-Chlorotoluene	1.0	Not Detected	5.2	Not Detected
Benzene	1.0	Not Detected	3.2	Not Detected
Bromodichloromethane	1.0	Not Detected	6.8	Not Detected
Bromoform	1.0	Not Detected	10	Not Detected
Bromomethane	10	Not Detected	39	Not Detected
Carbon Disulfide	4.0	4.8	12	15
Carbon Tetrachloride	1.0	Not Detected	6.4	Not Detected
Chlorobenzene	1.0	Not Detected	4.6	Not Detected
Chloroethane	4.0	Not Detected	11	Not Detected
Chloroform	1.0	Not Detected	4.9	Not Detected
Chloromethane	10	Not Detected	21	Not Detected
cis-1,2-Dichloroethene	1.0	Not Detected	4.0	Not Detected

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Client Sample ID: SG-VW24A-05

Lab ID#: 2108390-15A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p082024**	**Date of Collection:**	**8/17/21 8:25:00 AM**
Dil. Factor:	**2.02**	**Date of Analysis:**	**8/21/21 01:44 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,3-Dichloropropene	1.0	Not Detected	4.6	Not Detected
Cumene	1.0	Not Detected	5.0	Not Detected
Cyclohexane	1.0	1.1	3.5	3.7
Dibromochloromethane	1.0	Not Detected	8.6	Not Detected
Dibromomethane	4.0	Not Detected	29	Not Detected
Ethanol	10	12	19	22
Ethyl Acetate	4.0	Not Detected	14	Not Detected
Ethyl Benzene	1.0	1.6	4.4	6.9
Ethyl-tert-butyl ether	4.0	Not Detected	17	Not Detected
Freon 11	1.0	Not Detected	5.7	Not Detected
Freon 12	1.0	1.6	5.0	7.8
Freon 113	1.0	Not Detected	7.7	Not Detected
Freon 114	1.0	Not Detected	7.1	Not Detected
Freon 134a	4.0	Not Detected	17	Not Detected
Heptane	1.0	Not Detected	4.1	Not Detected
Hexachlorobutadiene	4.0	Not Detected	43	Not Detected
Hexachloroethane	4.0	Not Detected	39	Not Detected
Hexane	1.0	76	3.6	270
Iodomethane	10	Not Detected	59	Not Detected
Isopropyl ether	4.0	Not Detected	17	Not Detected
m,p-Xylene	1.0	5.9	4.4	26
Methyl tert-butyl ether	4.0	Not Detected	14	Not Detected
Methylene Chloride	10	Not Detected	35	Not Detected
Naphthalene	2.0	Not Detected	10	Not Detected
o-Xylene	1.0	2.1	4.4	9.2
Propylbenzene	1.0	Not Detected	5.0	Not Detected
Propylene	4.0	Not Detected	7.0	Not Detected
Styrene	1.0	Not Detected	4.3	Not Detected
tert-Amyl methyl ether	4.0	Not Detected	17	Not Detected
tert-Butyl alcohol	4.0	Not Detected	12	Not Detected
Tetrachloroethene	1.0	39	6.8	260
Tetrahydrofuran	1.0	Not Detected	3.0	Not Detected
Toluene	1.0	4.2	3.8	16
TPH ref. to Gasoline (MW=100)	100	160	410	650
trans-1,2-Dichloroethene	1.0	Not Detected	4.0	Not Detected
trans-1,3-Dichloropropene	1.0	Not Detected	4.6	Not Detected
Trichloroethene	1.0	1.9	5.4	10
Vinyl Acetate	4.0	Not Detected	14	Not Detected
Vinyl Bromide	4.0	Not Detected	18	Not Detected
Vinyl Chloride	1.0	Not Detected	2.6	Not Detected

Container Type: 1 Liter Summa Canister

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Client Sample ID: SG-VW24A-05

Lab ID#: 2108390-15A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p082024**	**Date of Collection:**	**8/17/21 8:25:00 AM**
Dil. Factor:	**2.02**	**Date of Analysis:**	**8/21/21 01:44 AM**

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	110	70-130
4-Bromofluorobenzene	104	70-130

US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/20AUG21.b/p082024.d
Lab Smp Id: 2108390-15A
Inj Date : 21-AUG-2021 01:44
Operator : kk Inst ID: msdp.i
Smp Info : 200ml 34000236
Misc Info : 5.0 Hg->10 psi
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/20AUG21.b/p21q0519a.m
Meth Date : 20-Aug-2021 12:59 p5fl Quant Type: ISTD
Cal Date : 19-MAY-2021 19:45 Cal File: p051915.d
Als bottle: 6
Dil Factor: 2.02000
Integrator: HP RTE Compound Sublist: AEC25677.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
* 90 Bromochloromethane					CAS #: 74-97-5		
5.785	5.785 (1.000)	130	104811	25.0000		80.00- 120.00	100.00
5.785	5.785 (1.000)	128	81527			48.23- 108.23	77.79
5.785	5.778 (1.000)	49	240122			150.57- 210.57	229.10
* 108 1,4-Difluorobenzene					CAS #: 540-36-3		
6.666	6.659 (1.000)	114	374966	25.0000		80.00- 120.00	100.00
6.659	6.659 (1.000)	88	55304			0.00- 45.71	14.75
* 153 Chlorobenzene-d5					CAS #: 3114-55-4		
9.460	9.460 (1.000)	117	389377	25.0000		80.00- 120.00	100.00
9.460	9.460 (1.000)	82	202194			23.78- 83.78	51.93
$ 104 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
6.315	6.315 (1.092)	65	158706	27.4377	27.438	80.00- 120.00	100.00
6.315	6.315 (1.092)	67	74599			27.21- 87.21	47.00
$ 134 Toluene-d8					CAS #: 2037-26-5		
7.891	7.891 (1.184)	98	408509	25.0888	25.089	80.00- 120.00	100.00
7.891	7.891 (1.184)	70	44615			0.00- 40.44	10.92

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 134 Toluene-d8 (continued)							
7.891	7.891 (1.184)	100	267862			34.95- 94.95	65.57
$ 170 4-Bromofluorobenzene					CAS #: 460-00-4		
10.921	10.921 (1.154)	174	259128	25.9160	25.916	80.00- 120.00	100.00
10.921	10.914 (1.154)	95	302970			95.92- 155.92	116.92
10.921	10.921 (1.154)	176	245624			66.89- 126.89	94.79
7 1,1-Difluoroethane					CAS #: 75-37-6		
1.717	1.703 (0.297)	65	7961	3.35096	6.769	80.00- 120.00	100.00
1.731	1.759 (0.299)	51	49486			597.63- 657.63	621.54
1.717	1.717 (0.297)	47	6413			33.72- 93.72	80.56
8 Freon 12					CAS #: 75-71-8		
1.731	1.717 (0.299)	85	7368	0.78380	1.583	80.00- 120.00	100.00
1.731	1.717 (0.299)	87	2307			2.37- 62.37	31.32
39 Ethanol					CAS #: 64-17-5		
3.250	3.242 (0.562)	46	6121	5.88895	11.896	80.00- 120.00	100.00
3.257	3.285 (0.563)	45	14541			511.19- 571.19	237.56
47 Acetone					CAS #: 67-64-1		
3.730	3.722 (0.645)	58	14232	5.17954	10.463	80.00- 120.00	100.00
3.730	3.722 (0.645)	43	60261			302.95- 362.95	423.42
48 Carbon Disulfide					CAS #: 75-15-0		
3.837	3.830 (0.663)	76	27782	2.37839	4.804	80.00- 120.00	100.00
52 2-Propanol					CAS #: 67-63-0		
3.901	3.894 (0.674)	45	28728	2.59413	5.240	80.00- 120.00	100.00
3.901	3.894 (0.674)	43	8544			0.00- 47.19	29.74
67 Hexane					CAS #: 110-54-3		
4.697	4.697 (0.812)	57	389296	37.7039	76.162	80.00- 120.00	100.00
4.697	4.697 (0.812)	43	307460			37.52- 97.52	78.98
4.697	4.697 (0.812)	86	38924			0.00- 41.48	10.00
94 Cyclohexane					CAS #: 110-82-7		
5.964	5.957 (1.031)	84	3526	0.53481	1.080	80.00- 120.00	100.00
5.957	5.957 (1.030)	56	10006			142.57- 202.57	283.77
5.964	5.957 (1.031)	41	6415			62.09- 122.09	181.93
111 Trichloroethene					CAS #: 79-01-6		
6.867	6.867 (1.030)	95	5737	0.95549	1.930	80.00- 120.00	100.00
6.867	6.867 (1.030)	130	6050			76.29- 136.29	105.47
6.867	6.867 (1.030)	97	3399			33.63- 93.63	59.26

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
137 Toluene					CAS #: 108-88-3		
7.956	7.956 (1.193)	91	35488	2.07878	4.199	80.00- 120.00	100.00
7.956	7.956 (1.193)	92	19712			28.38- 88.38	55.55
142 Tetrachloroethene					CAS #: 127-18-4		
8.471	8.464 (0.895)	166	172017	19.3839	39.155	80.00- 120.00	100.00
8.464	8.464 (0.895)	129	129553			47.84- 107.84	75.31
8.464	8.464 (0.895)	131	128353			45.29- 105.29	74.62
155 Ethyl Benzene					CAS #: 100-41-4		
9.567	9.567 (1.011)	106	6402	0.79185	1.600	80.00- 120.00	100.00
9.567	9.567 (1.011)	91	18930			273.74- 333.74	295.70
158 m,p-Xylene					CAS #: 108-38-3		
9.718	9.718 (1.027)	106	29492	2.91256	5.883	80.00- 120.00	100.00
9.718	9.718 (1.027)	91	54125			163.73- 223.73	183.52
164 o-Xylene					CAS #: 95-47-6		
10.226	10.226 (1.081)	106	10160	1.04724	2.115	80.00- 120.00	100.00
10.226	10.226 (1.081)	91	21177			177.45- 237.45	208.42
183 4-Ethyltoluene					CAS #: 622-96-8		
11.258	11.287 (1.190)	120	7010	0.71332	1.441	80.00- 120.00	100.00
11.258	11.287 (1.190)	105	20256			284.55- 344.55	288.95
190 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
11.817	11.817 (1.249)	105	18389	0.72006	1.454	80.00- 120.00	100.00
11.817	11.817 (1.249)	120	9924			19.05- 79.05	53.97

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p082024.d
Lab Smp Id: 2108390-15A
Analysis Type: VOA
Quant Type: ISTD
Operator: kk
Method File: /chem/msdp.i/20AUG21.b/p21q0519a.m
Misc Info: 5.0 Hg->10 psi

Calibration Date: 20-AUG-2021
Calibration Time: 11:13
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	109375	65625	153125	104811	-4.17
108 1,4-Difluorobenze	406799	244079	569519	374966	-7.83
153 Chlorobenzene-d5	400841	240505	561177	389377	-2.86

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.79	5.46	6.12	5.79	0.00
108 1,4-Difluorobenze	6.66	6.33	6.99	6.67	0.11
153 Chlorobenzene-d5	9.46	9.13	9.79	9.46	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 24-Aug-2021 11:46

US32TAR1

RECOVERY REPORT

Client Name: Client SDG: 20AUG21
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 2108390-15A
Level: LOW Operator: kk
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT20_new.spk Quant Type: ISTD
Sublist File: AEC25677.sub
Method File: /chem/msdp.i/20AUG21.b/p21q0519a.m
Misc Info: 5.0 Hg->10 psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 104 1,2-Dichloroethan	25.000	27.438	109.75	70-130
$ 134 Toluene-d8	25.000	25.089	100.36	70-130
$ 170 4-Bromofluorobenz	25.000	25.916	103.66	70-130

Data File: /chem/msdp.i/20AUG21.b/p082024.d

Date : 21-AUG-2021 01:44

Client ID:

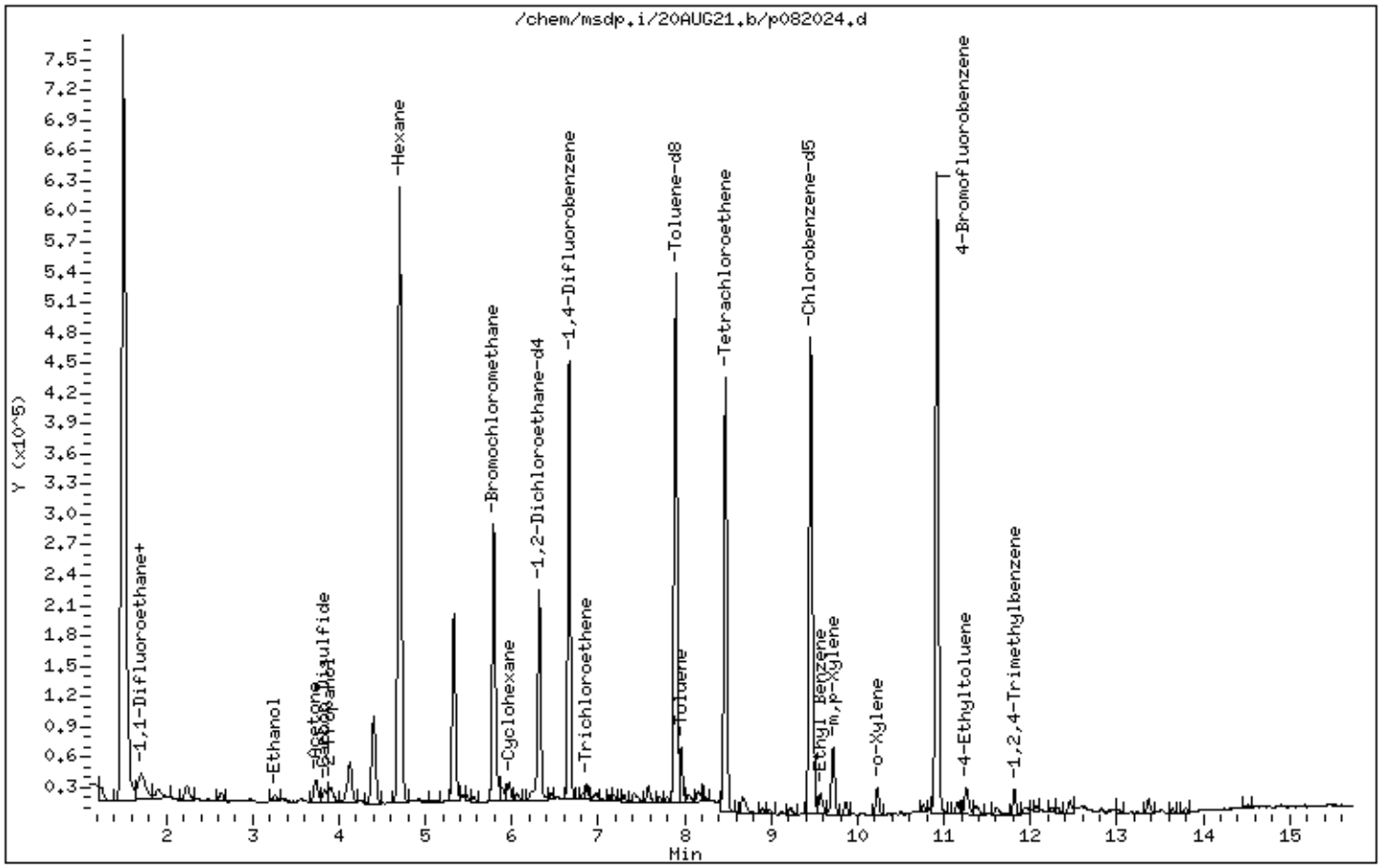
Instrument: msdp.i

Sample Info: 200ml 34000236

Operator: kk

Column phase: RTX-624

Column diameter: 0.25



Data File: /chem/msdp.i/20AUG21.b/p082024.d

Date : 21-AUG-2021 01:44

Client ID:

Instrument: msdp.i

Sample Info: 200ml 34000236

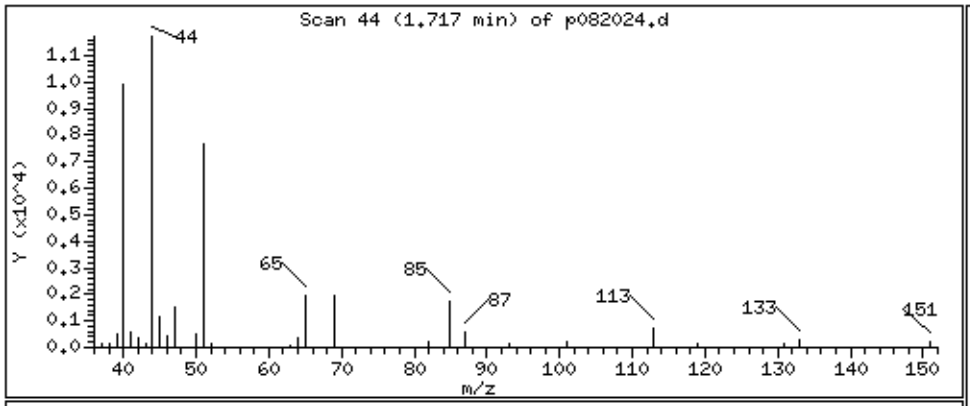
Operator: kk

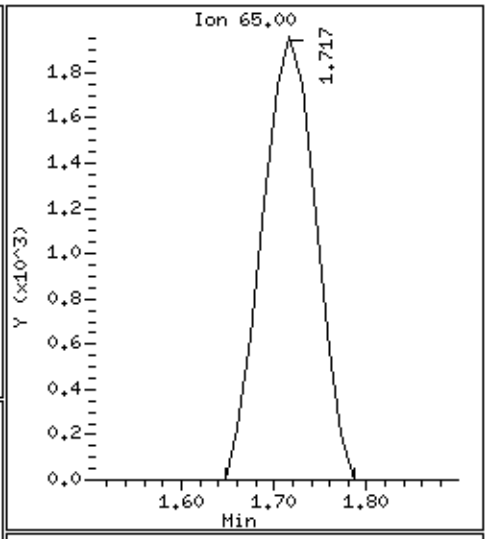
Column phase: RTX-624

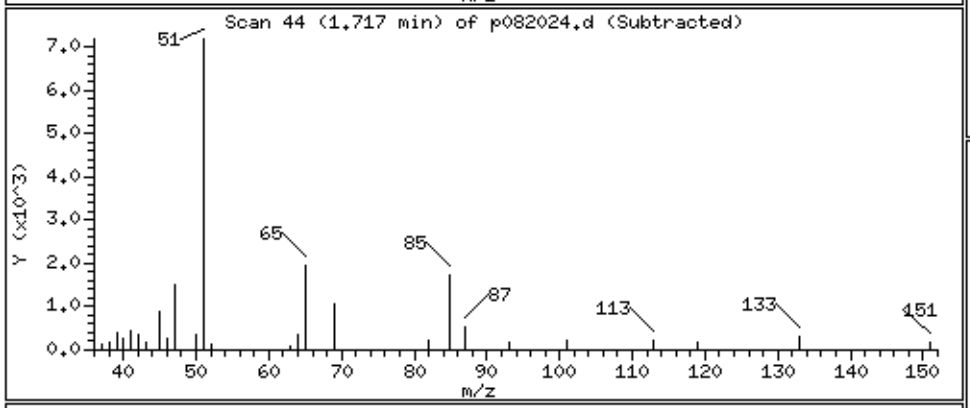
Column diameter: 0.25

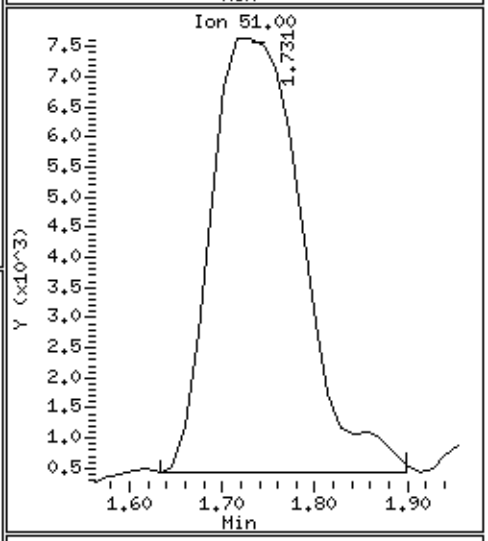
7 1,1-Difluoroethane

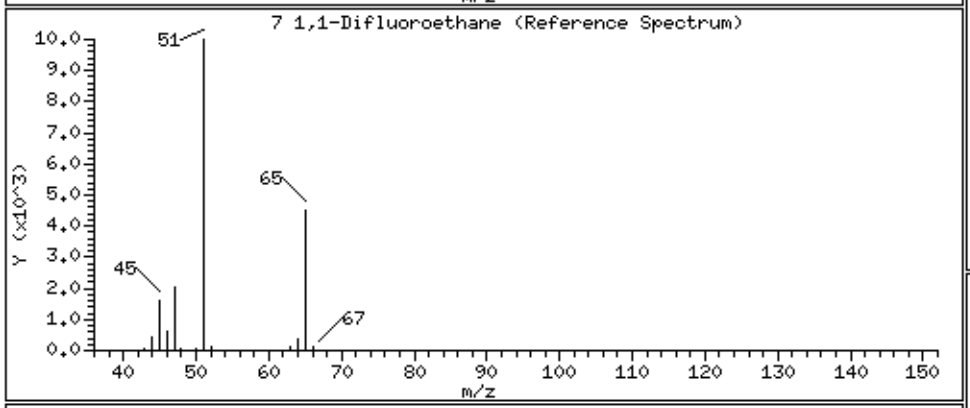
Concentration: 6.769 PPBV

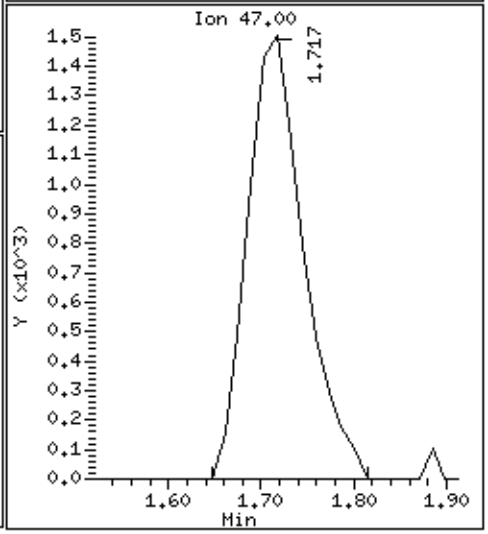


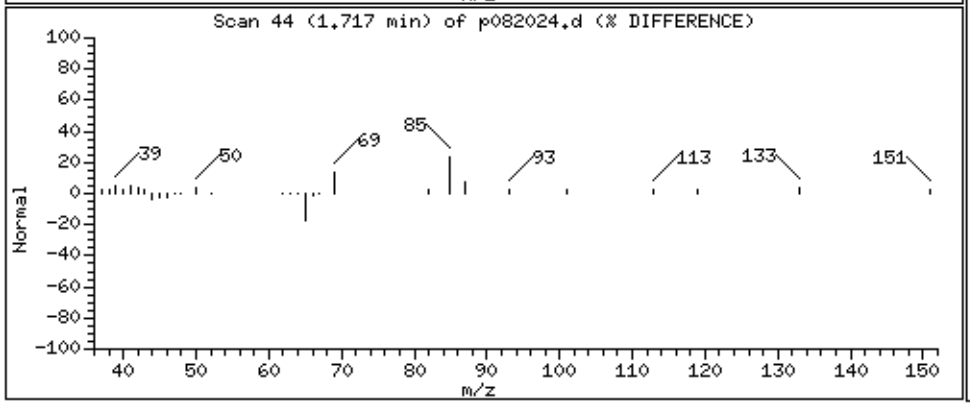












Data File: /chem/msdp.i/20AUG21.b/p082024.d

Date : 21-AUG-2021 01:44

Client ID:

Instrument: msdp.i

Sample Info: 200ml 34000236

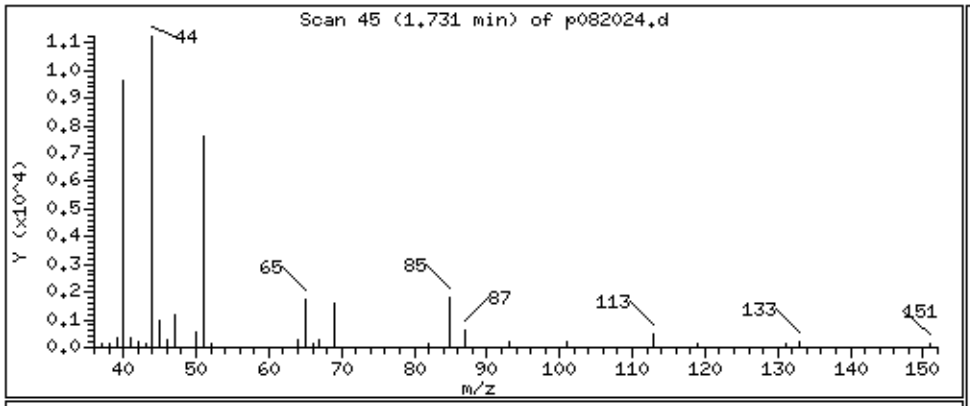
Operator: kk

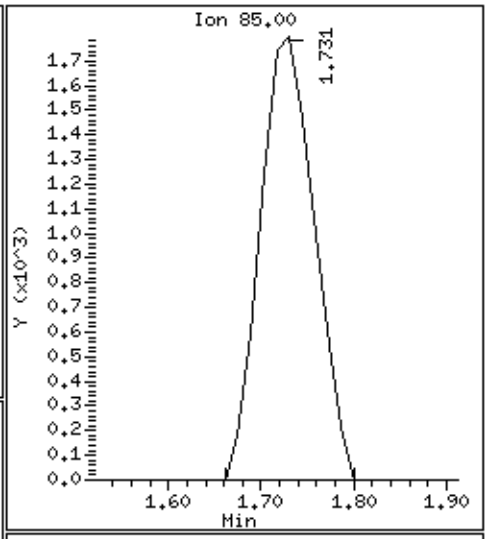
Column phase: RTX-624

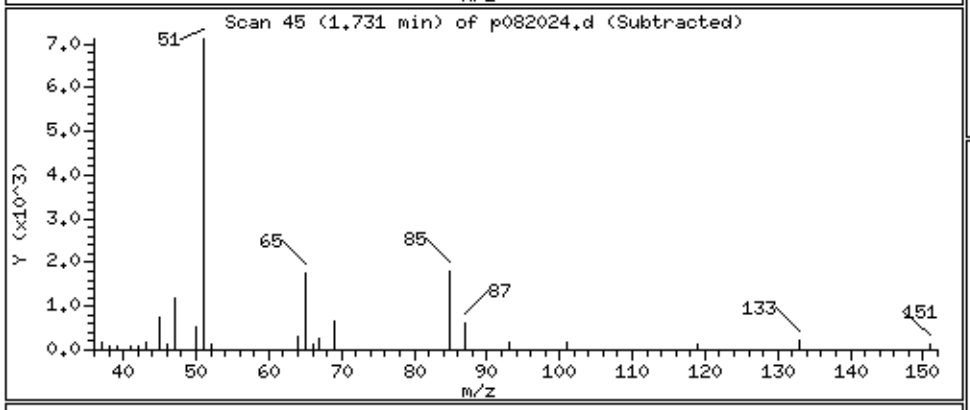
Column diameter: 0.25

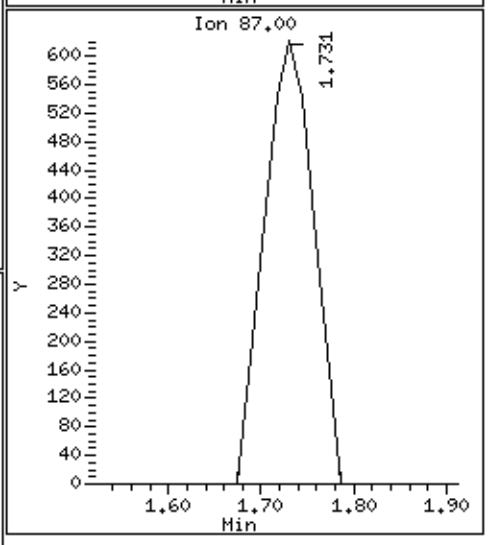
8 Freon 12

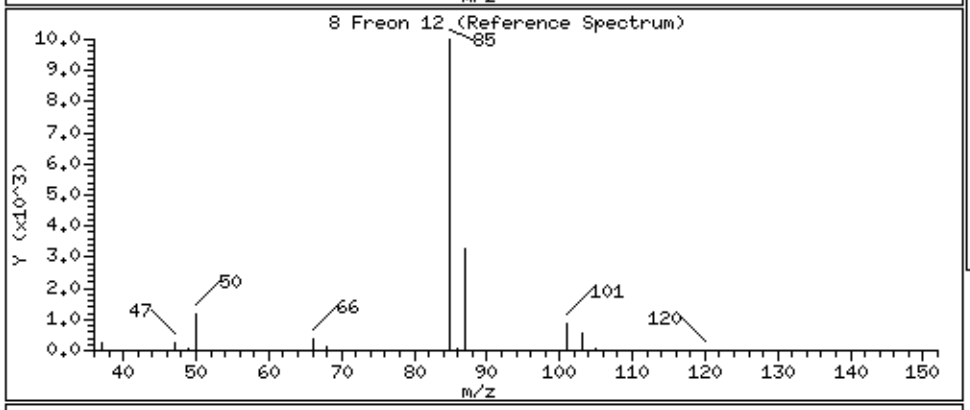
Concentration: 1.583 PPBV

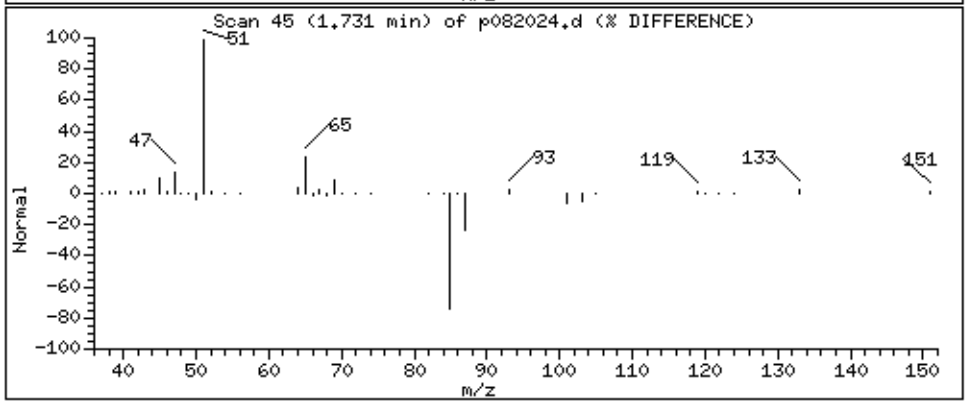












Data File: /chem/msdp.i/20AUG21.b/p082024.d

Date : 21-AUG-2021 01:44

Client ID:

Instrument: msdp.i

Sample Info: 200ml 34000236

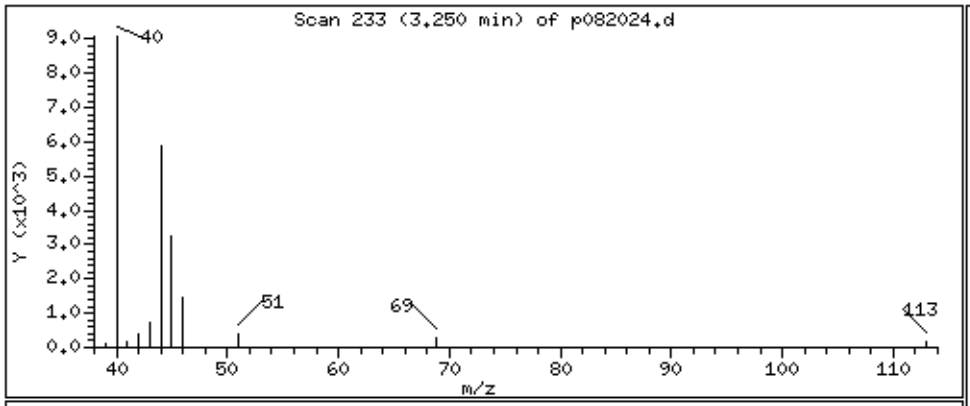
Operator: kk

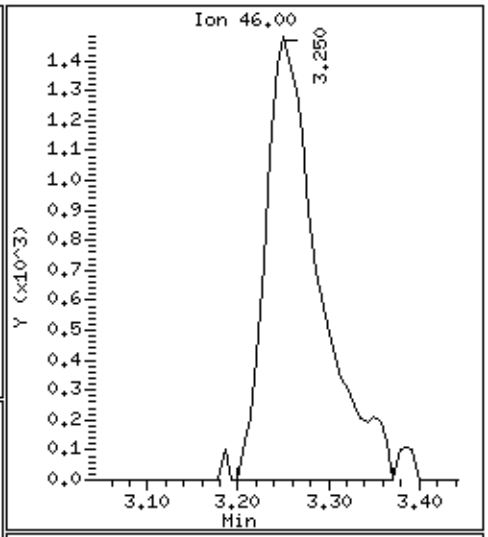
Column phase: RTX-624

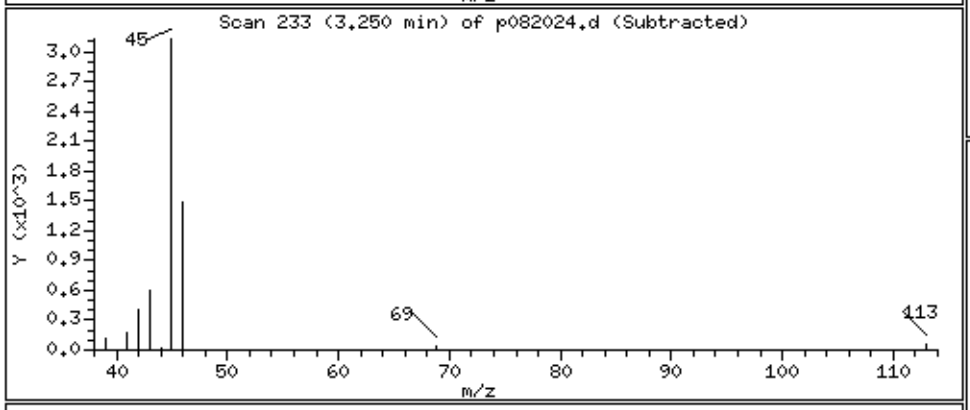
Column diameter: 0.25

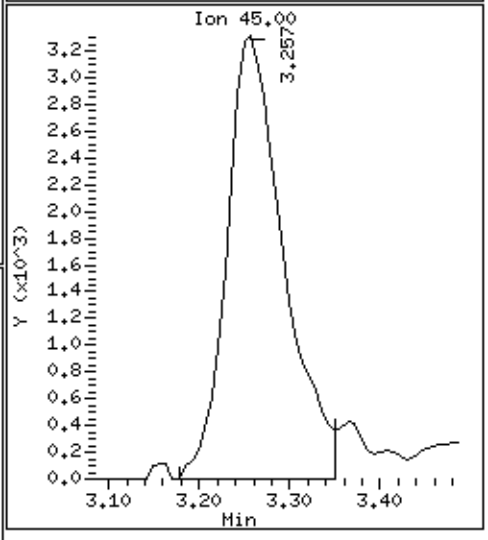
39 Ethanol

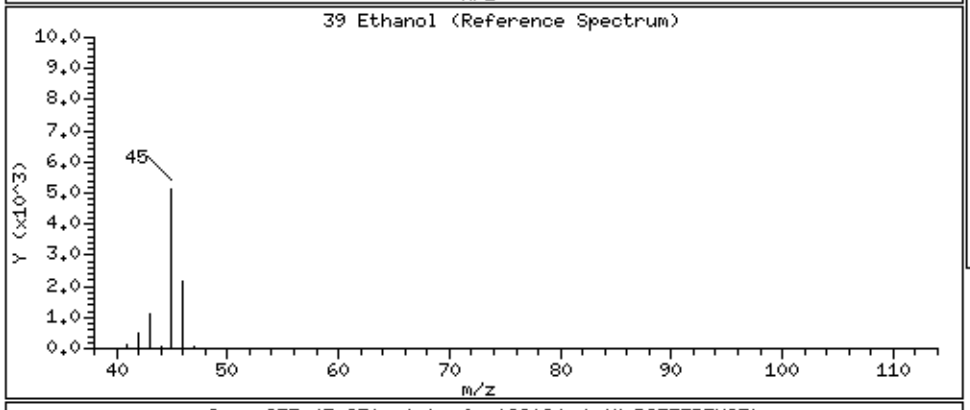
Concentration: 11.896 PPBV

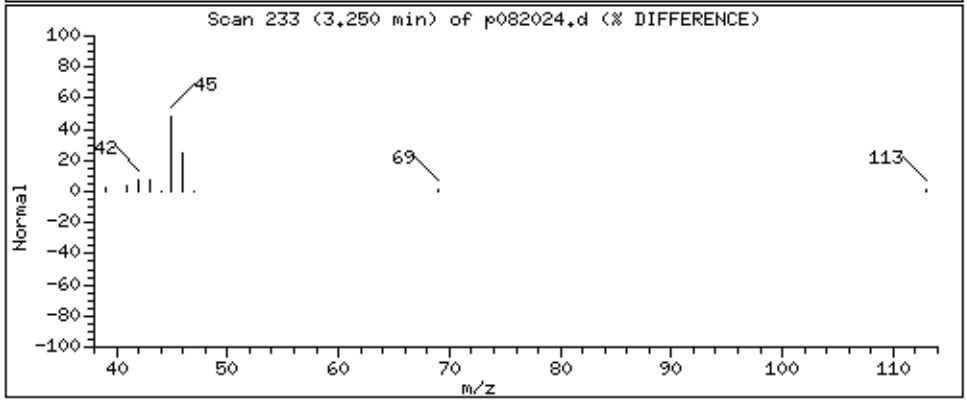












Data File: /chem/msdp.i/20AUG21.b/p082024.d

Date : 21-AUG-2021 01:44

Client ID:

Instrument: msdp.i

Sample Info: 200ml 34000236

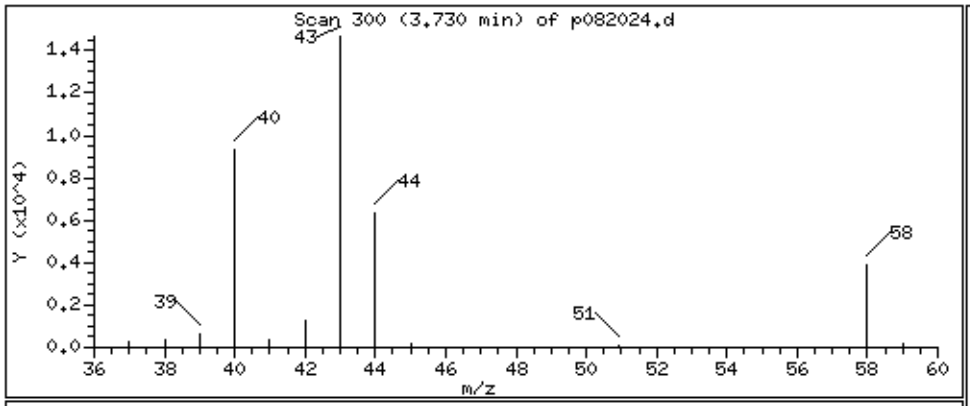
Operator: kk

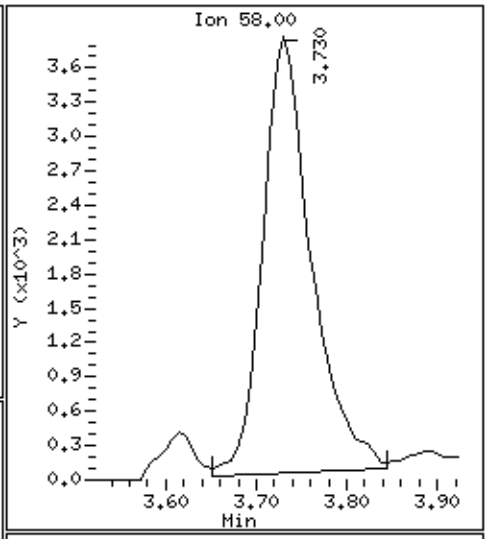
Column phase: RTX-624

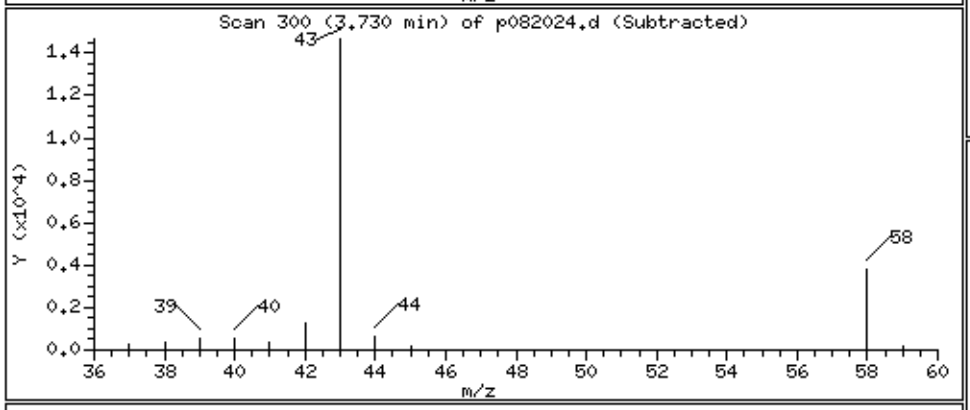
Column diameter: 0.25

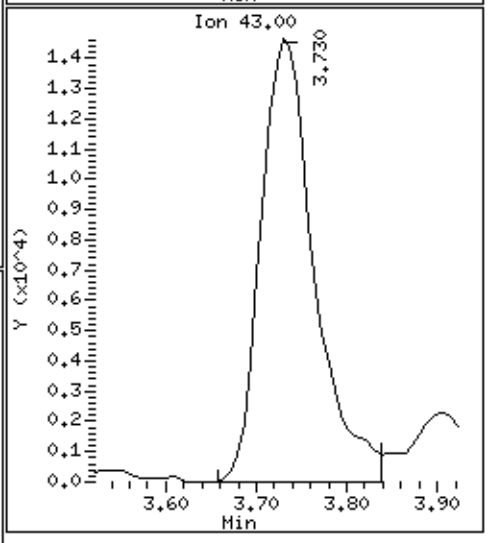
47 Acetone

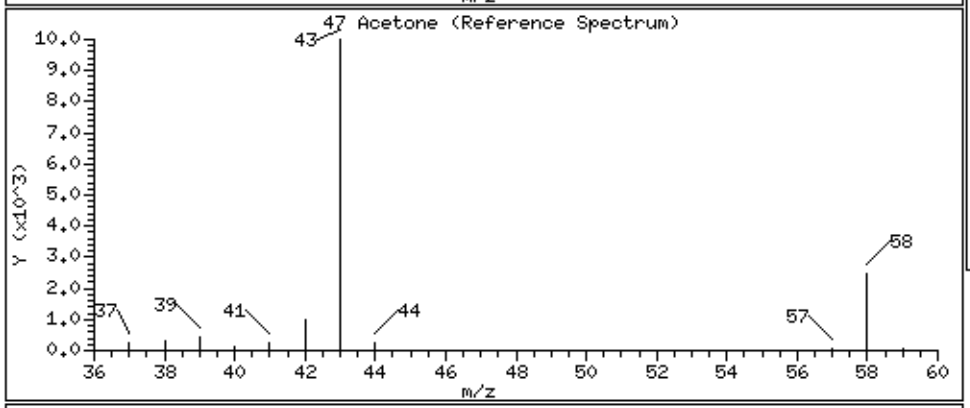
Concentration: 10.463 PPBV

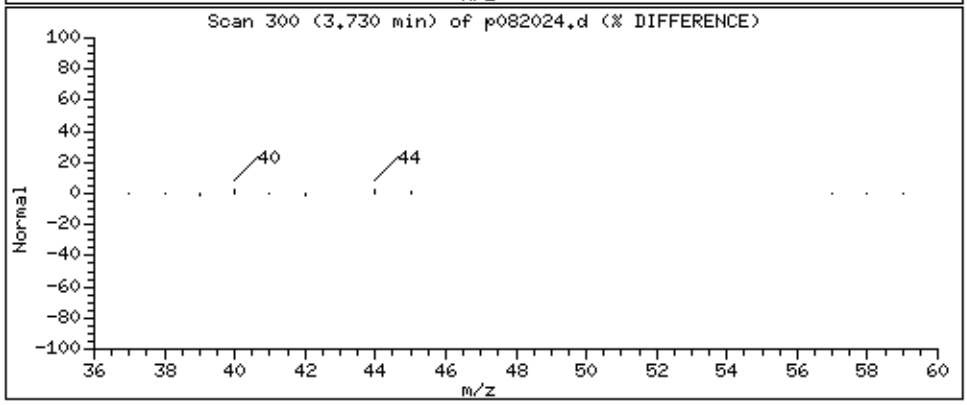












Data File: /chem/msdp.i/20AUG21.b/p082024.d

Date : 21-AUG-2021 01:44

Client ID:

Instrument: msdp.i

Sample Info: 200ml 34000236

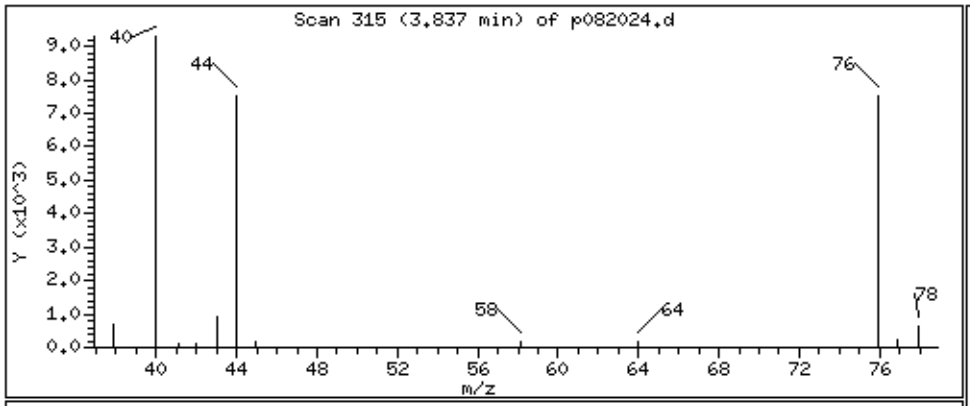
Operator: kk

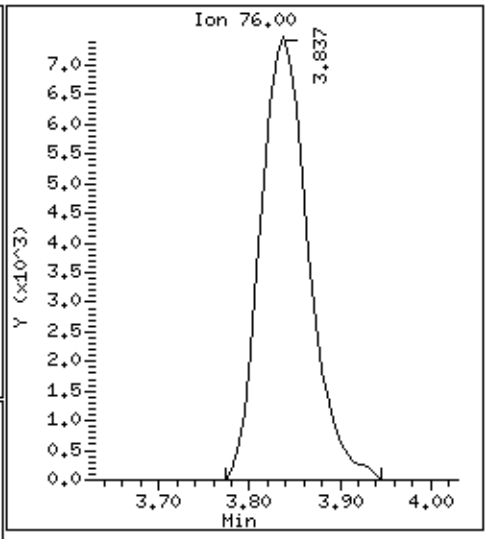
Column phase: RTX-624

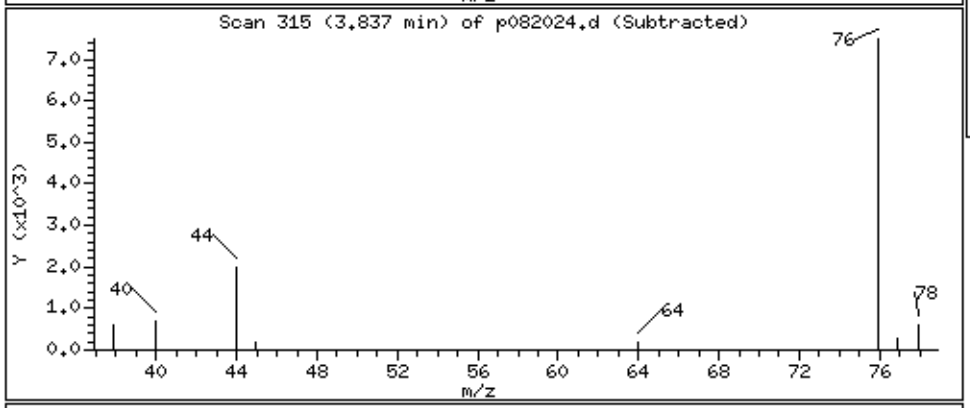
Column diameter: 0.25

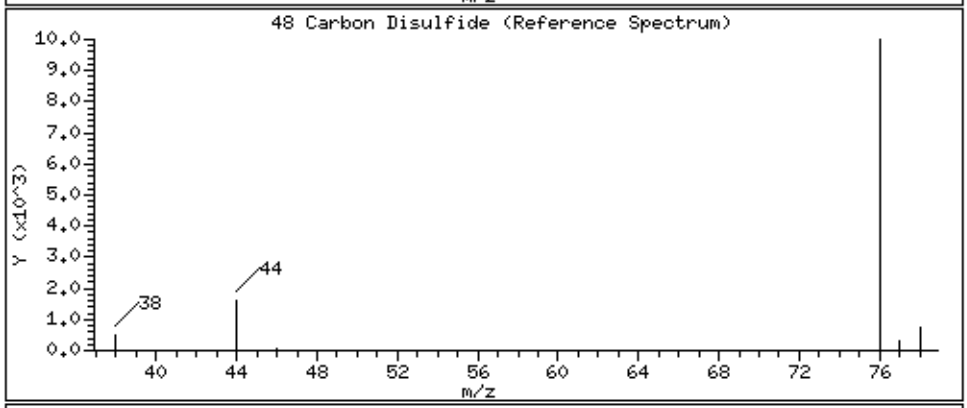
48 Carbon Disulfide

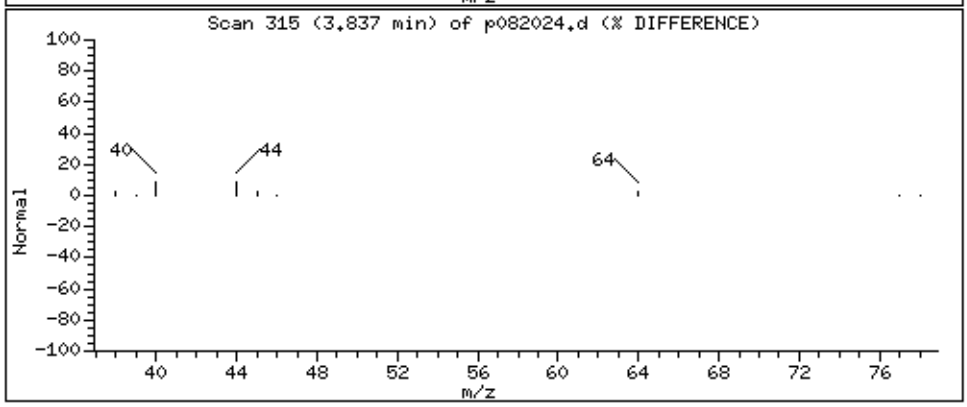
Concentration: 4.804 PPBV











Data File: /chem/msdp.i/20AUG21.b/p082024.d

Date : 21-AUG-2021 01:44

Client ID:

Instrument: msdp.i

Sample Info: 200ml 34000236

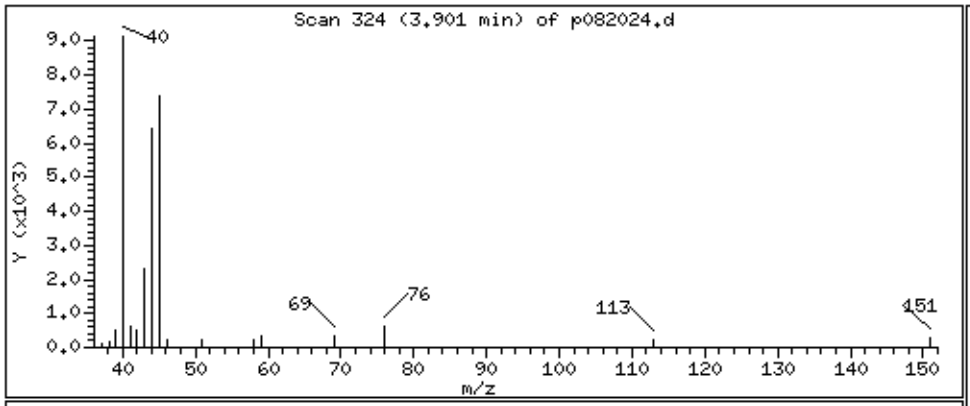
Operator: kk

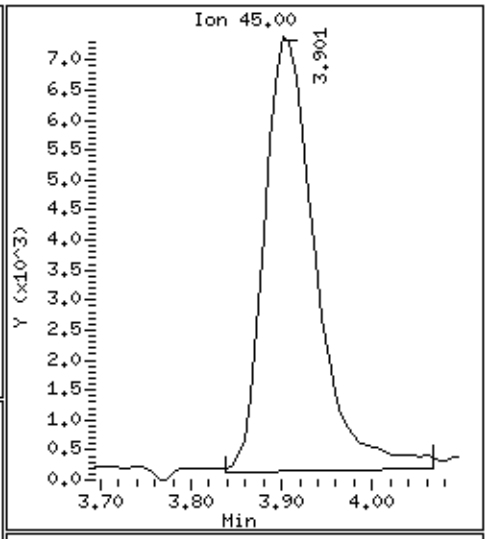
Column phase: RTX-624

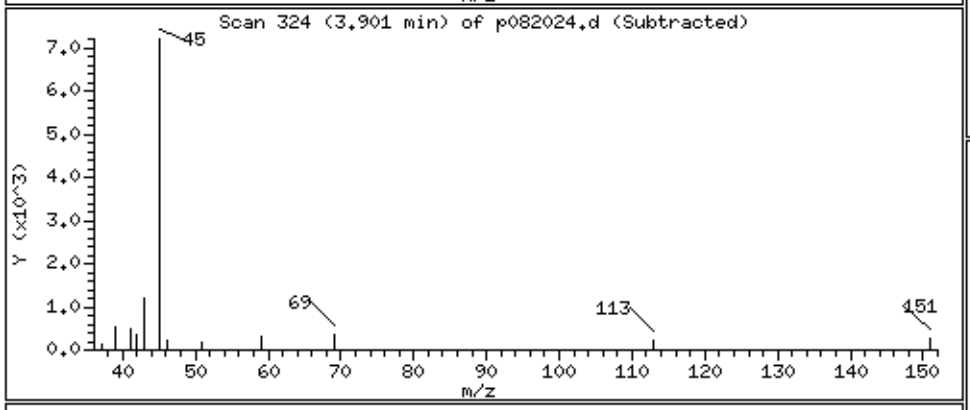
Column diameter: 0.25

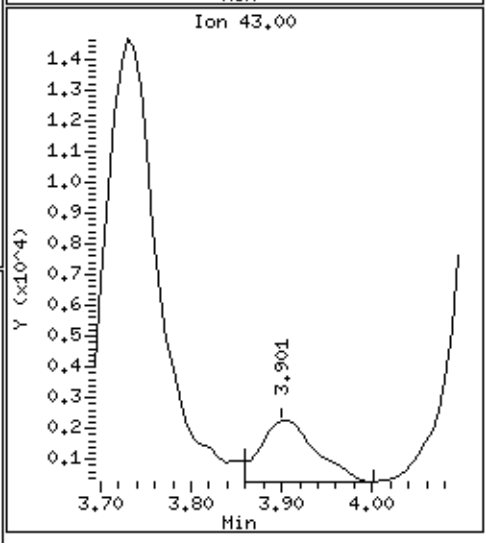
52 2-Propanol

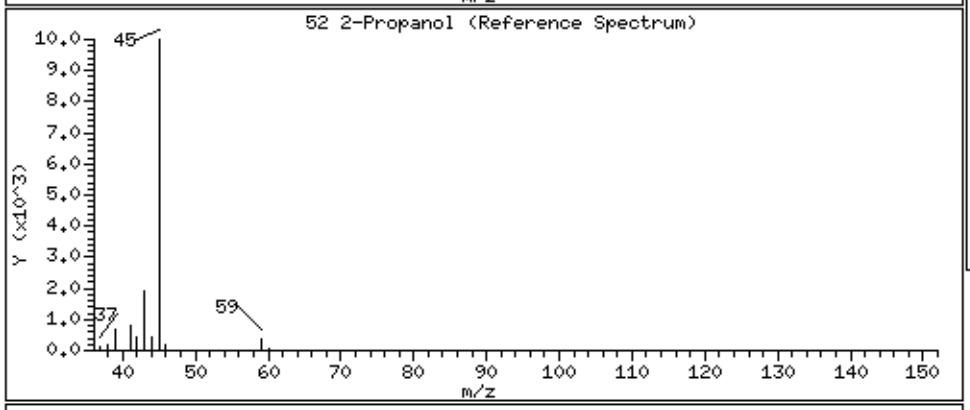
Concentration: 5.240 PPBV

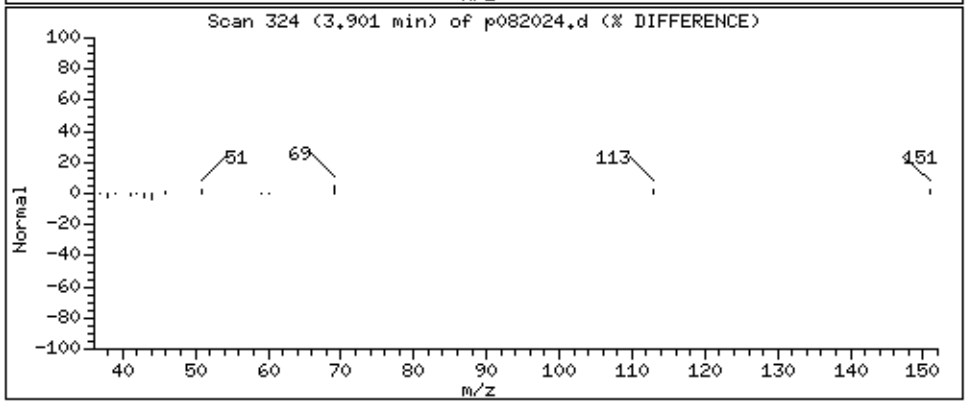












Data File: /chem/msdp.i/20AUG21.b/p082024.d

Date : 21-AUG-2021 01:44

Client ID:

Instrument: msdp.i

Sample Info: 200ml 34000236

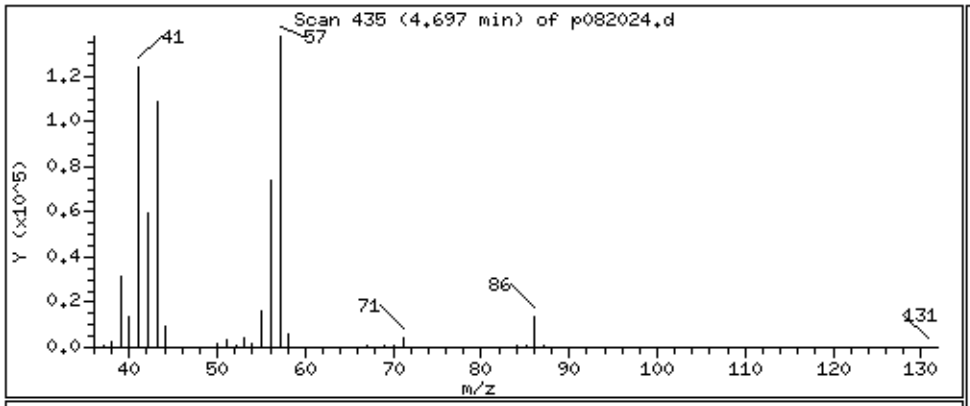
Operator: kk

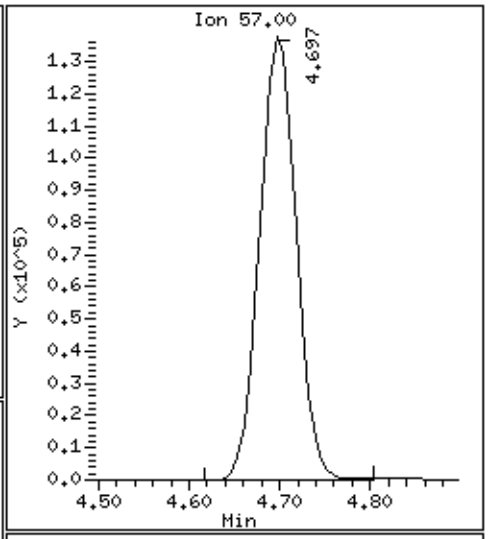
Column phase: RTX-624

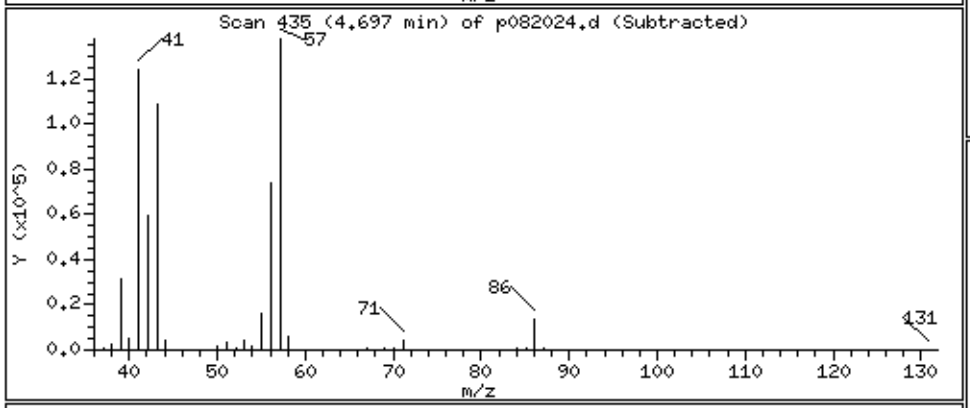
Column diameter: 0.25

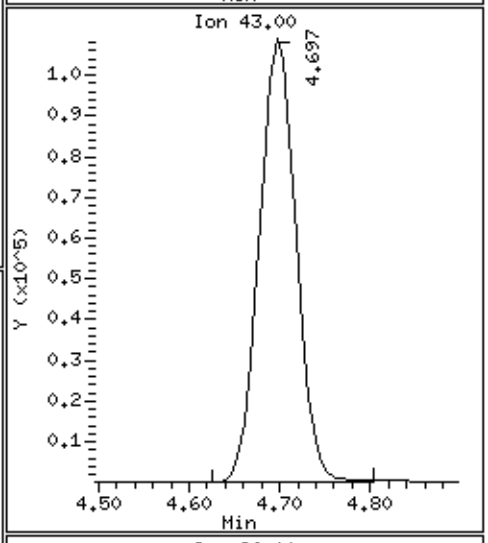
67 Hexane

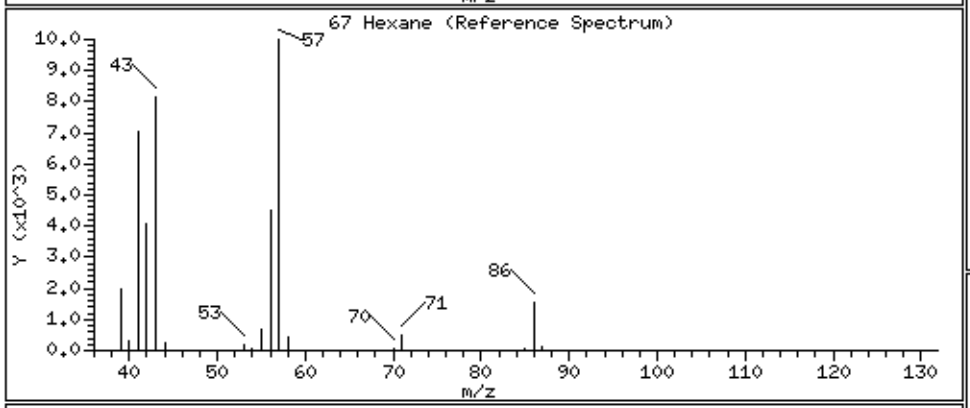
Concentration: 76.162 PPBV

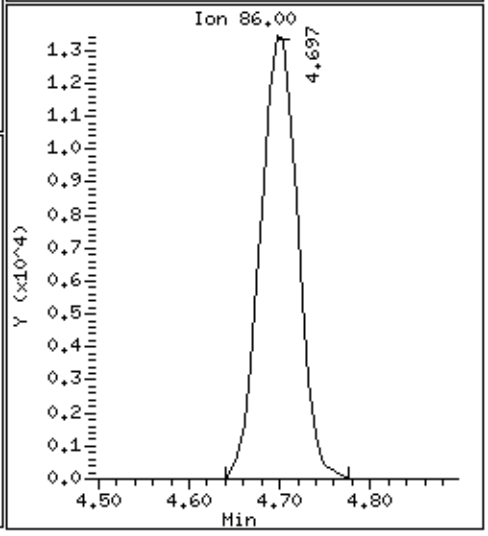


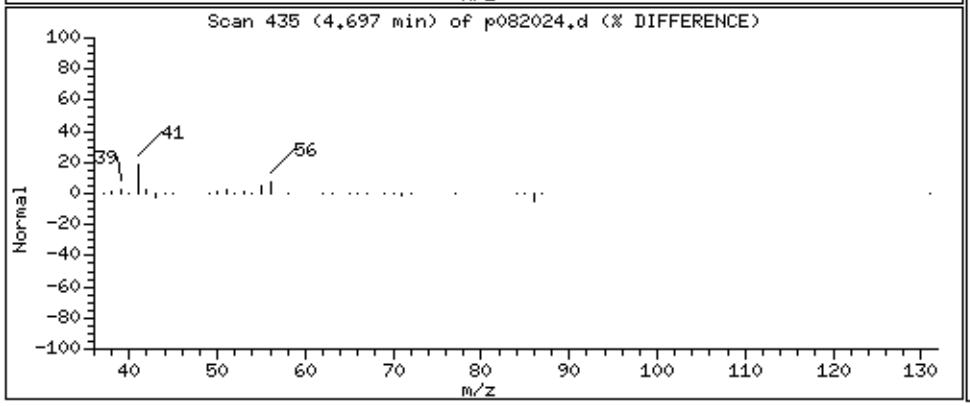












Data File: /chem/msdp.i/20AUG21.b/p082024.d

Date : 21-AUG-2021 01:44

Client ID:

Instrument: msdp.i

Sample Info: 200ml 34000236

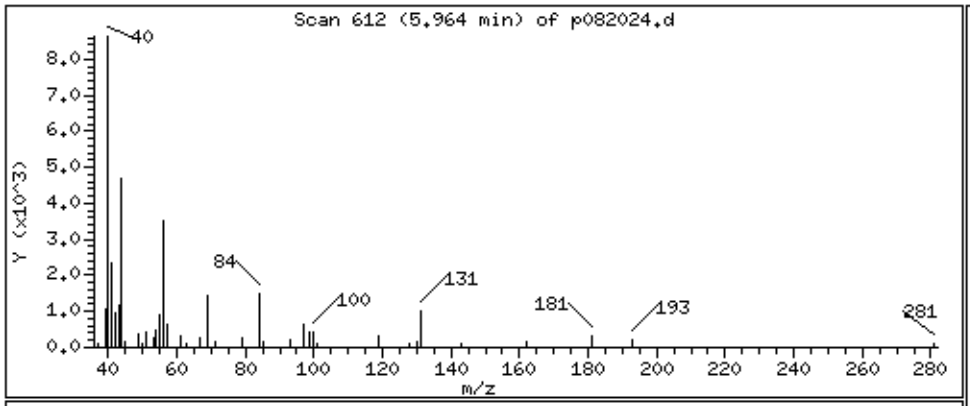
Operator: kk

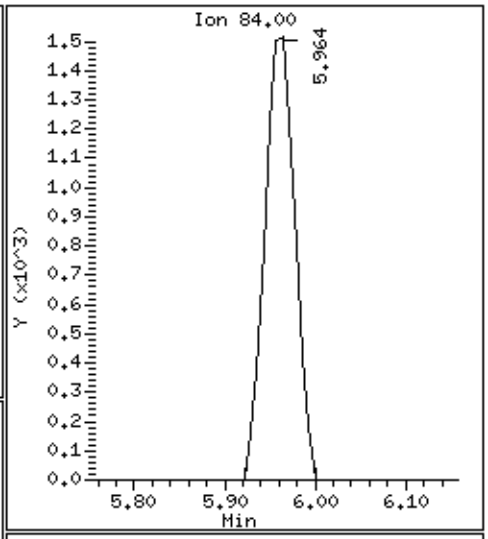
Column phase: RTX-624

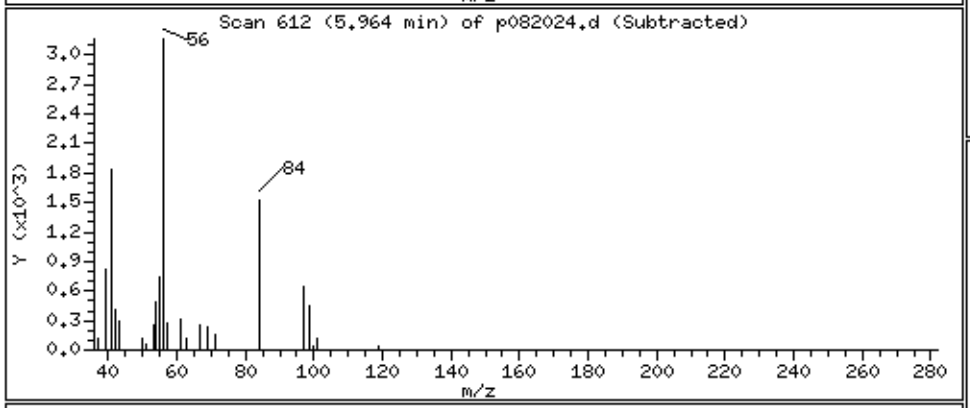
Column diameter: 0.25

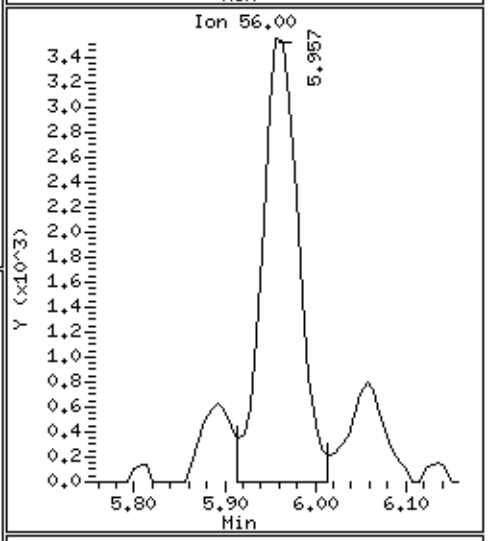
94 Cyclohexane

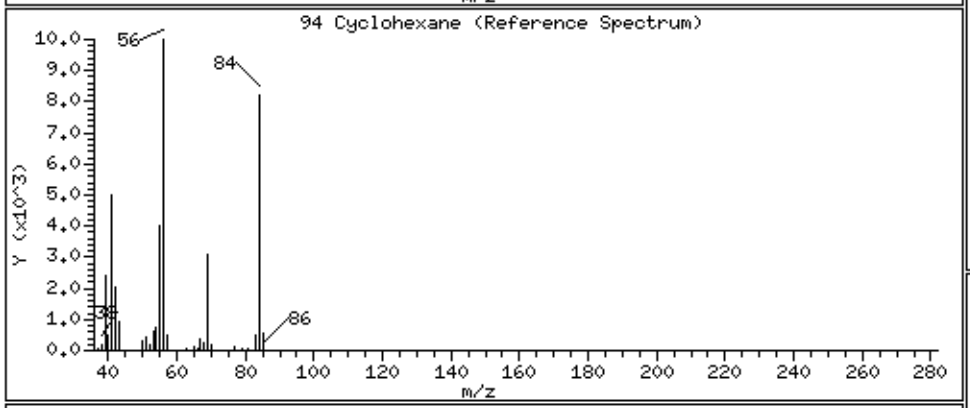
Concentration: 1.080 PPBV

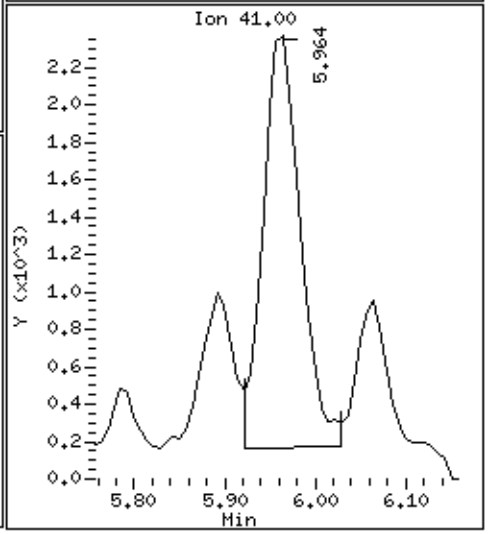


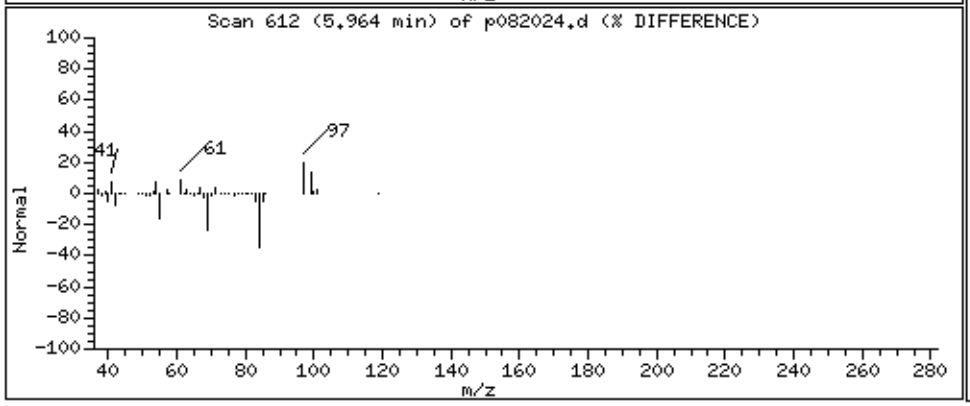












Data File: /chem/msdp.i/20AUG21.b/p082024.d

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Date : 21-AUG-2021 01:44

Client ID:

Instrument: msdp.i

Sample Info: 200ml 34000236

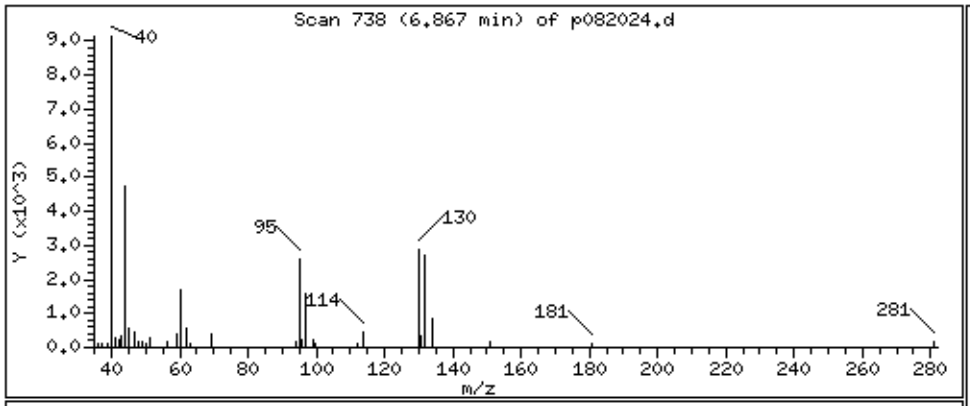
Operator: kk

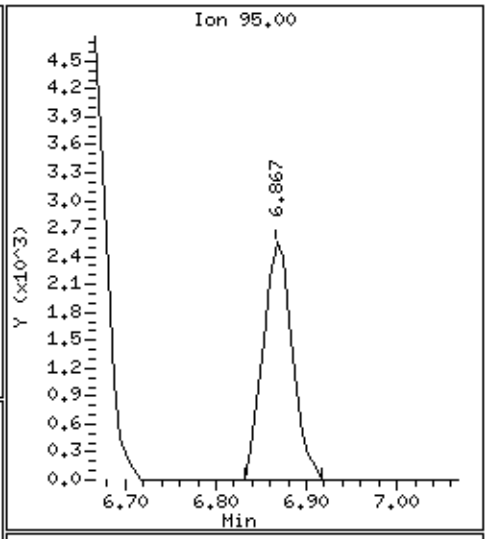
Column phase: RTX-624

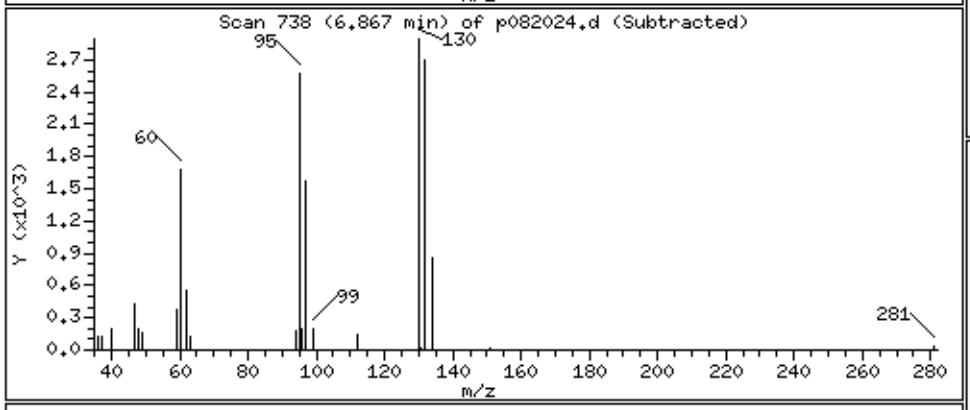
Column diameter: 0.25

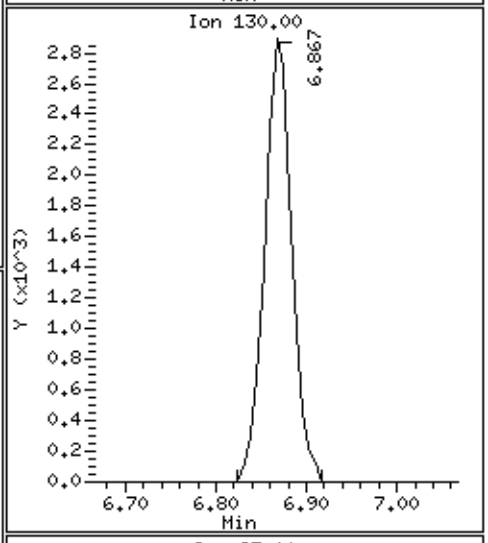
111 Trichloroethene

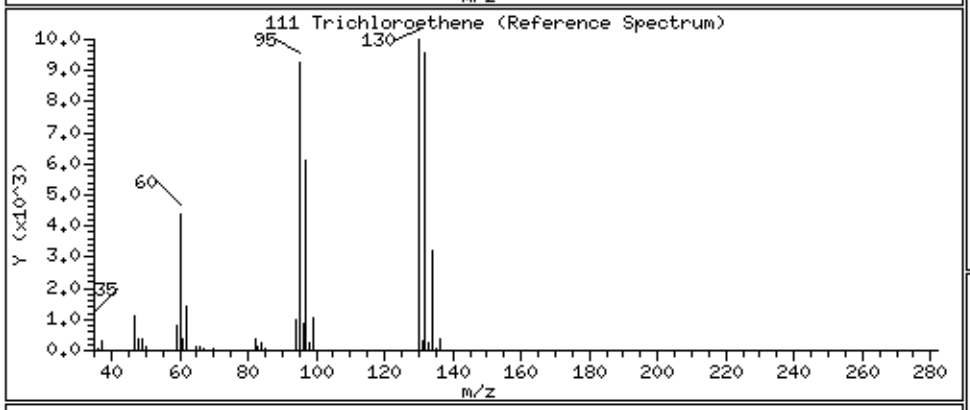
Concentration: 1.930 PPBV

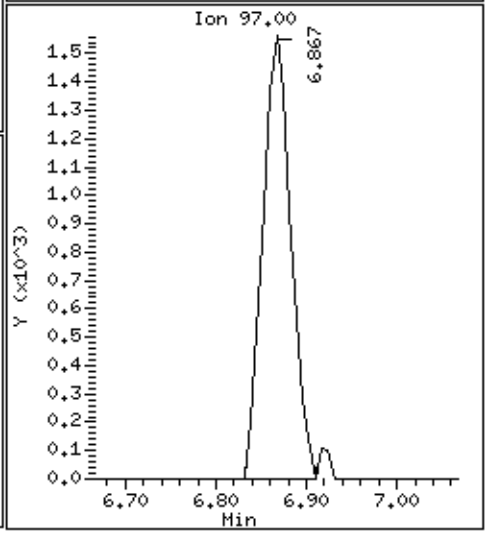


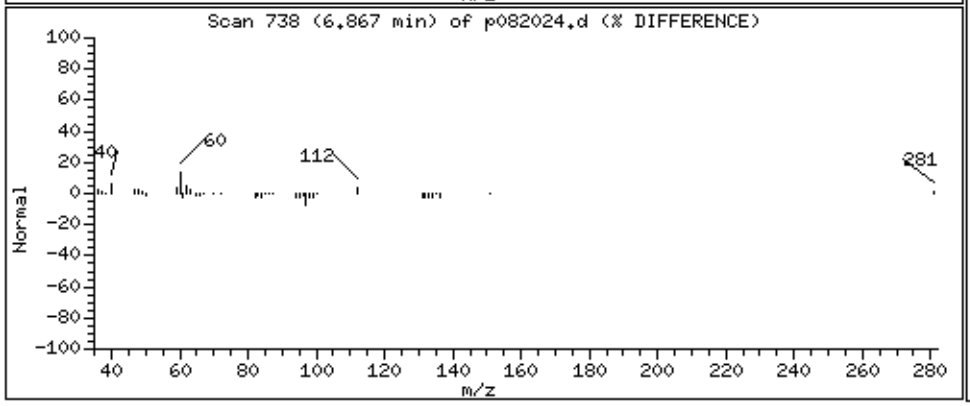












Data File: /chem/msdp.i/20AUG21.b/p082024.d

Date : 21-AUG-2021 01:44

Client ID:

Instrument: msdp.i

Sample Info: 200ml 34000236

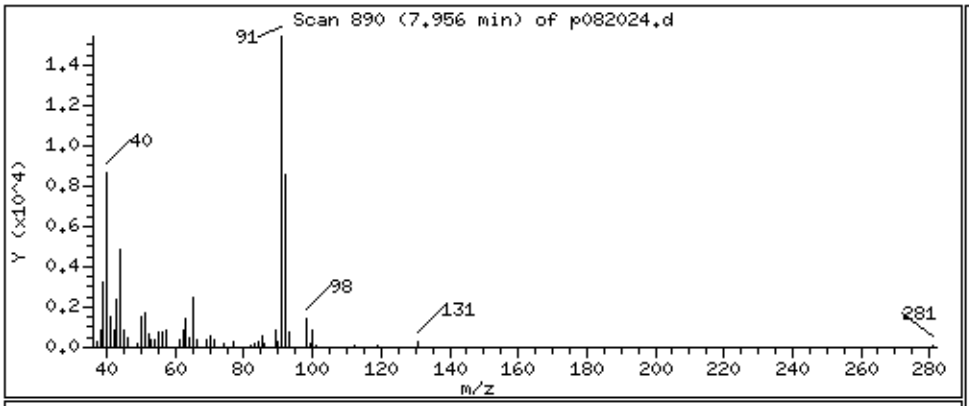
Operator: kk

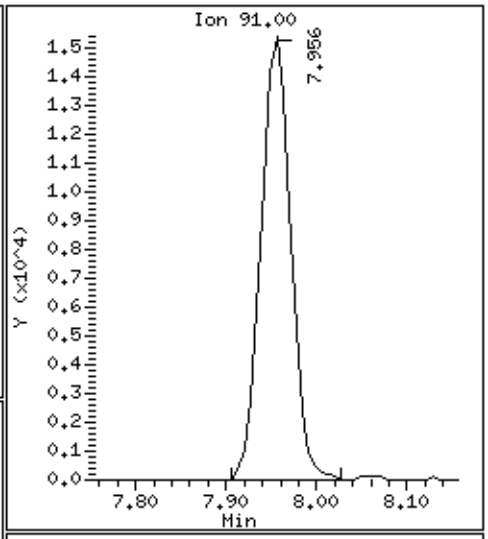
Column phase: RTX-624

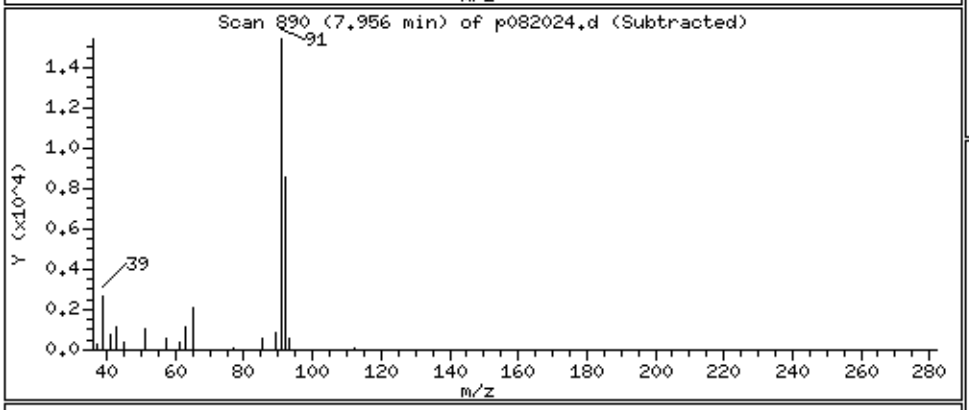
Column diameter: 0.25

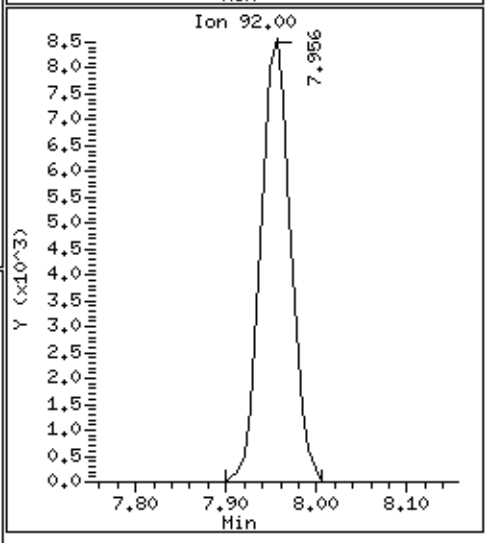
137 Toluene

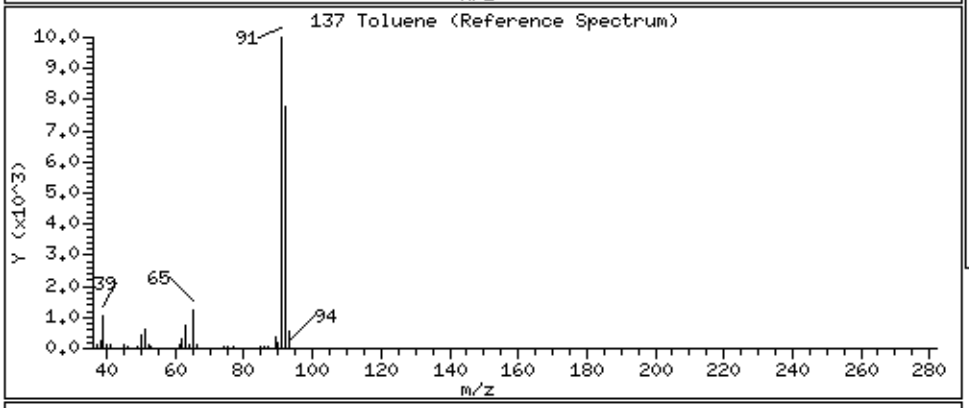
Concentration: 4.199 PPBV

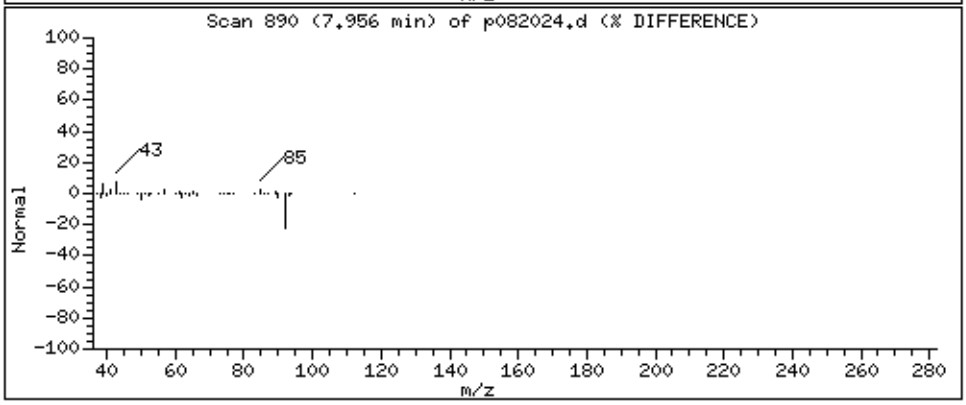












Data File: /chem/msdp.i/20AUG21.b/p082024.d

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Date : 21-AUG-2021 01:44

Client ID:

Instrument: msdp.i

Sample Info: 200ml 34000236

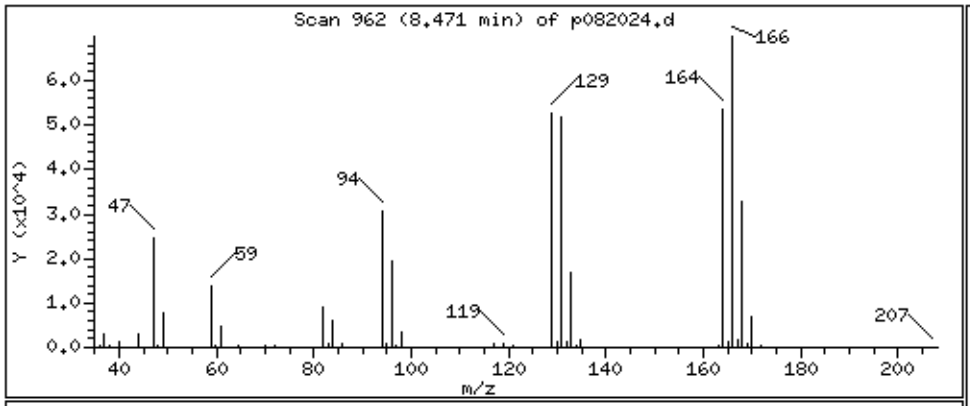
Operator: kk

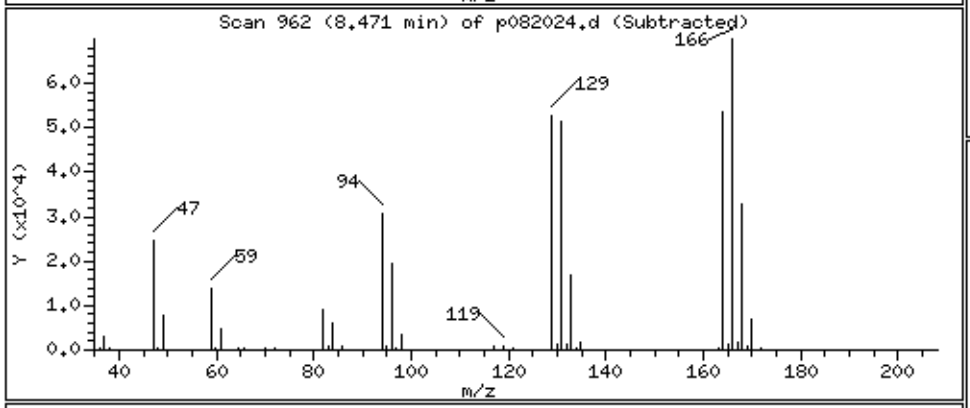
Column phase: RTX-624

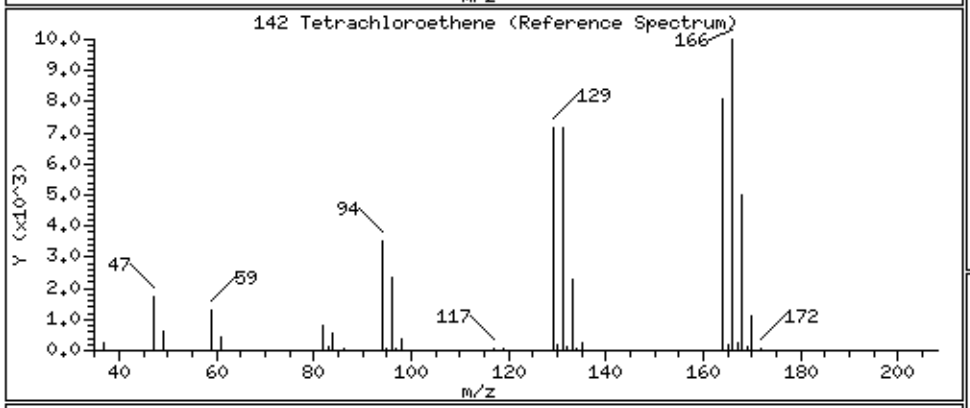
Column diameter: 0.25

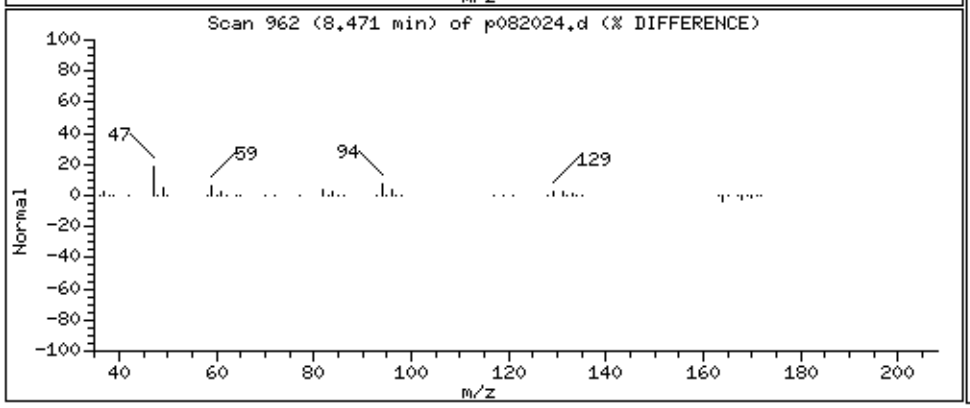
142 Tetrachloroethene

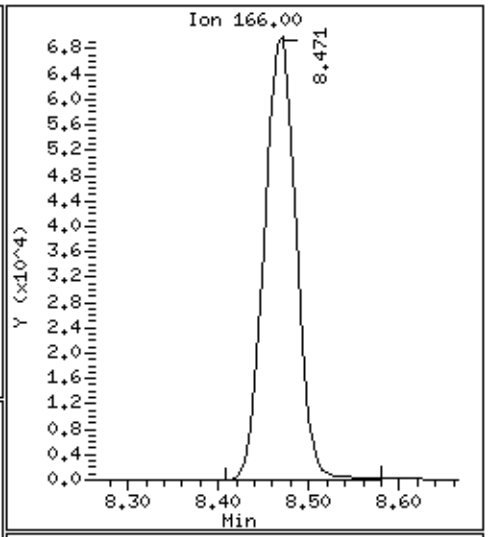
Concentration: 39.155 PPBV

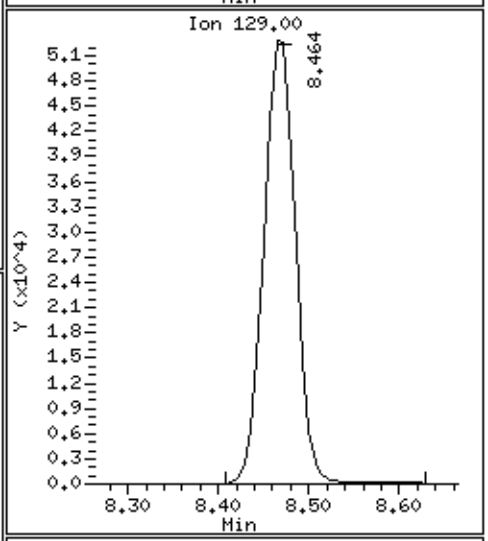


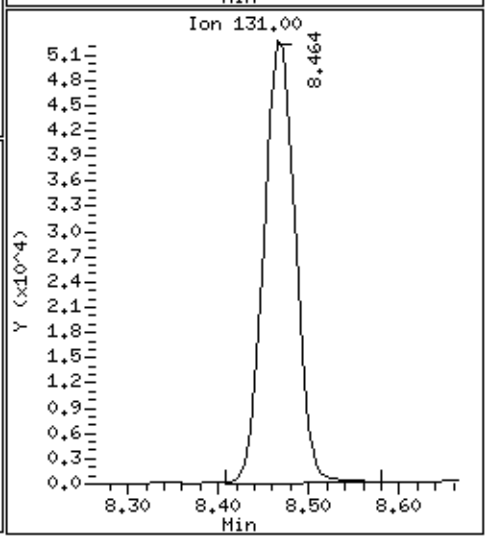












Data File: /chem/msdp.i/20AUG21.b/p082024.d

Page 13

Date : 21-AUG-2021 01:44

Client ID:

Instrument: msdp.i

Sample Info: 200ml 34000236

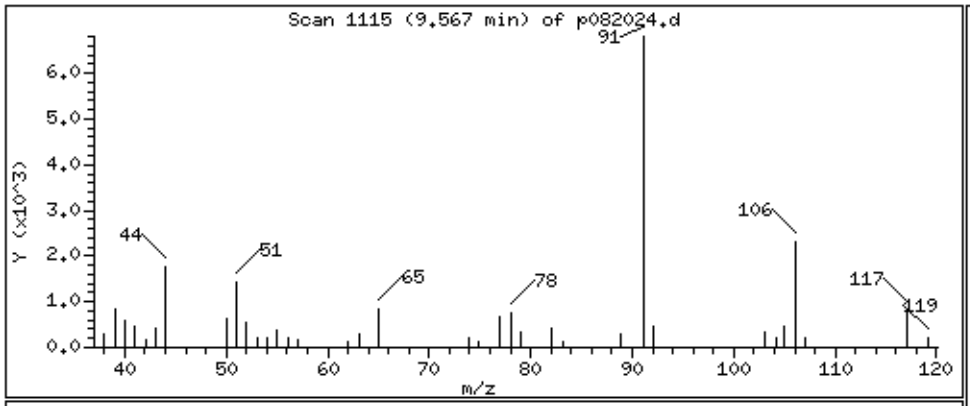
Operator: kk

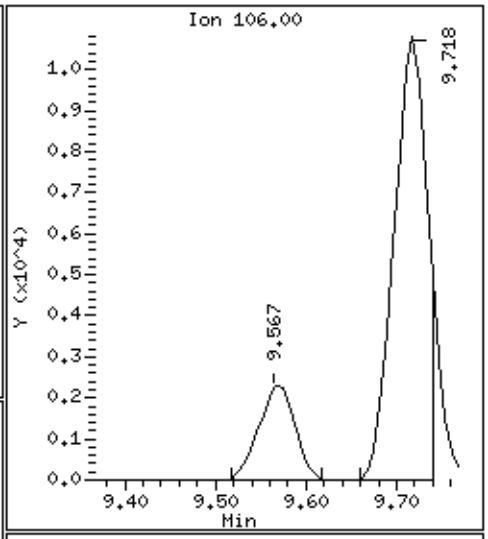
Column phase: RTX-624

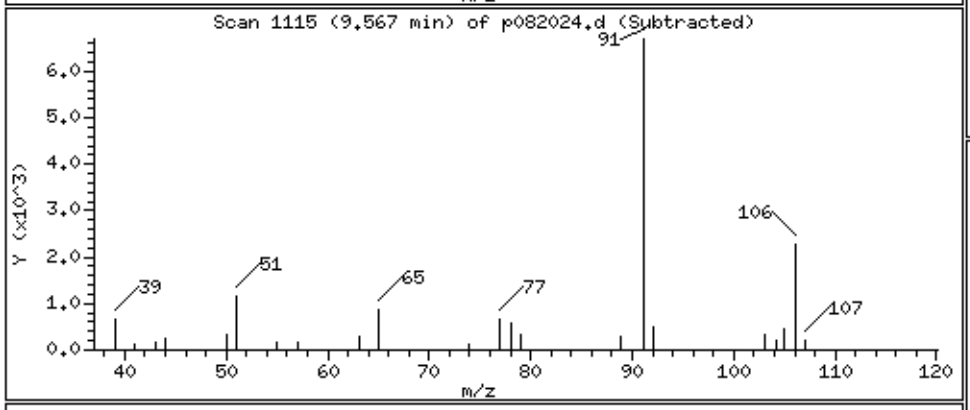
Column diameter: 0.25

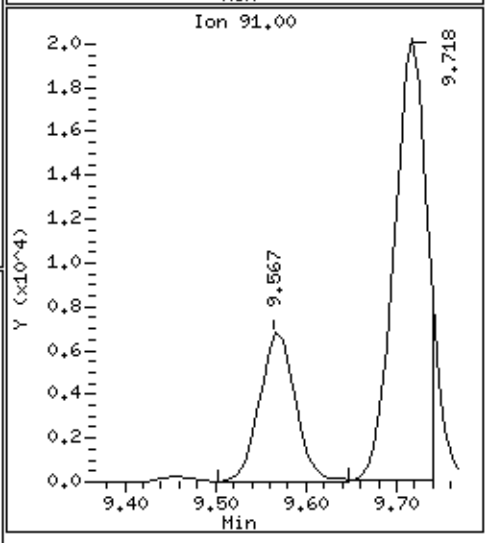
155 Ethyl Benzene

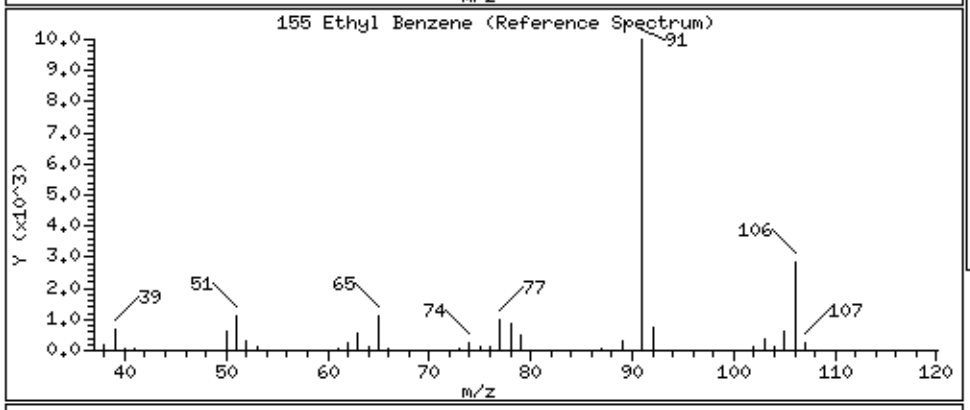
Concentration: 1.600 PPBV

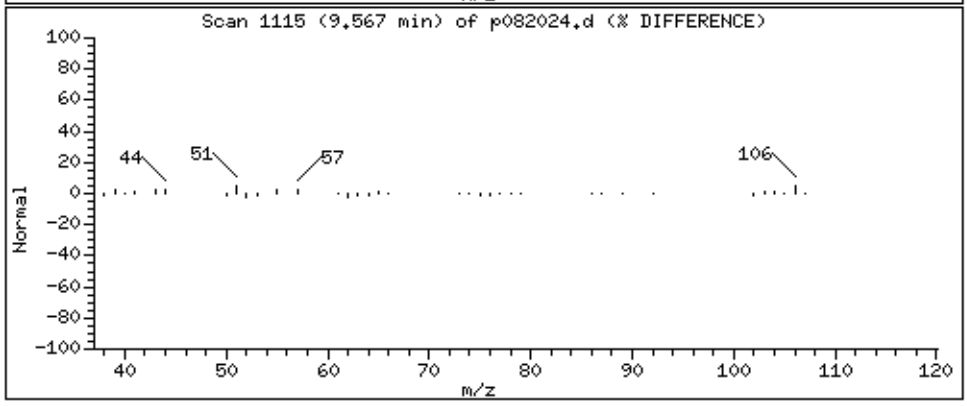












Data File: /chem/msdp.i/20AUG21.b/p082024.d

Date : 21-AUG-2021 01:44

Client ID:

Instrument: msdp.i

Sample Info: 200ml 34000236

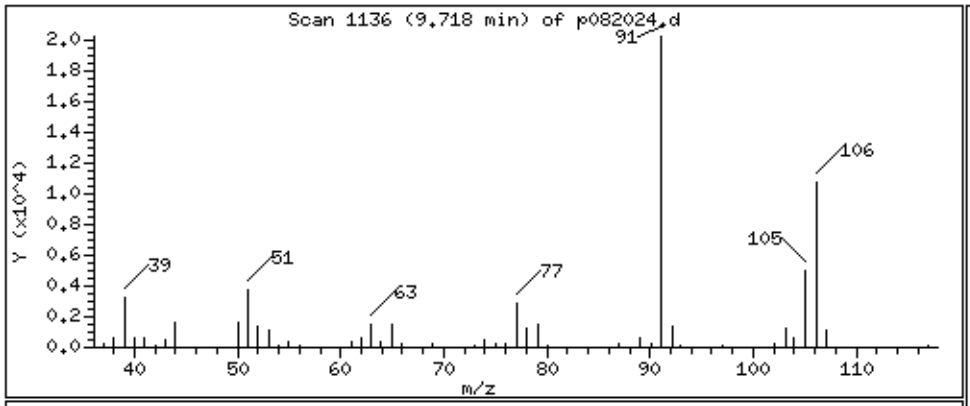
Operator: kk

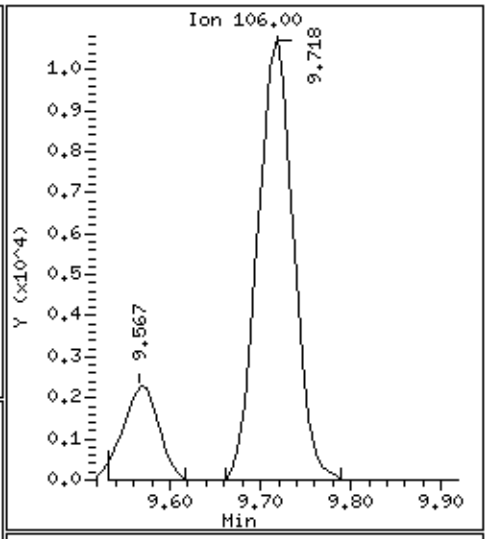
Column phase: RTX-624

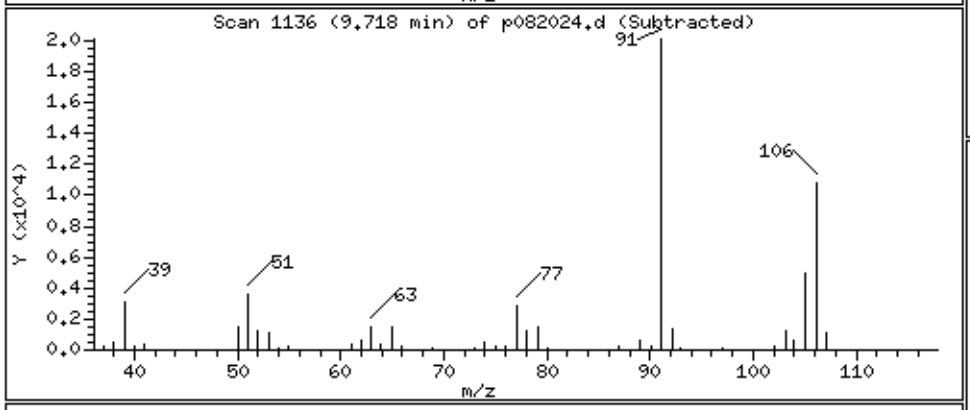
Column diameter: 0.25

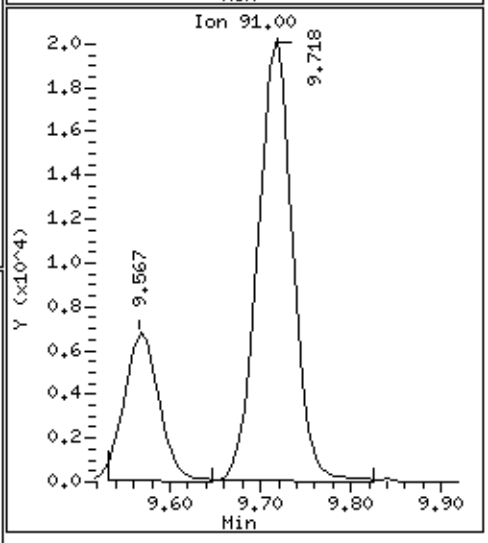
158 m,p-Xylene

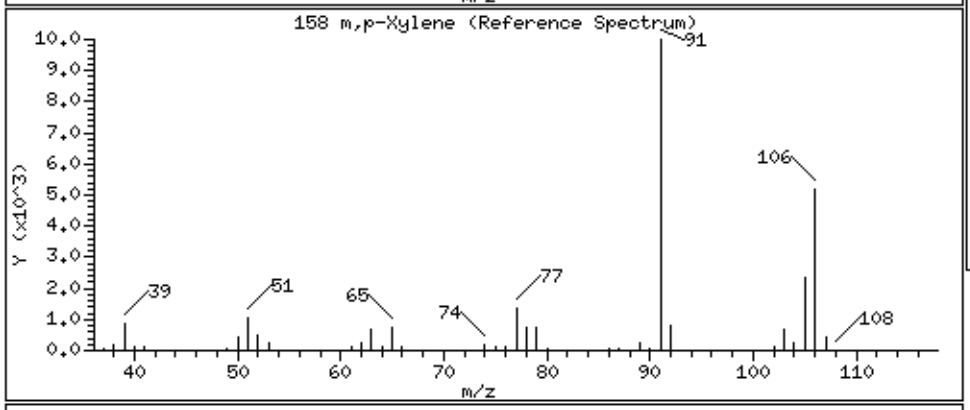
Concentration: 5.883 PPBV

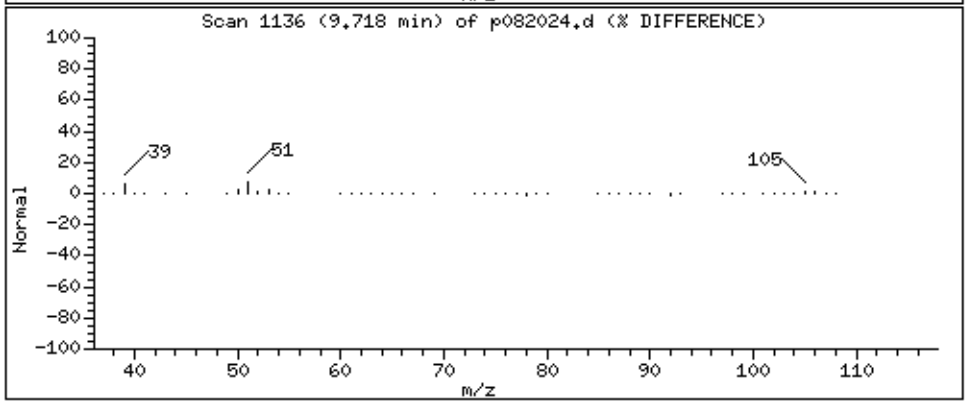












Data File: /chem/msdp.i/20AUG21.b/p082024.d

Date : 21-AUG-2021 01:44

Client ID:

Instrument: msdp.i

Sample Info: 200ml 34000236

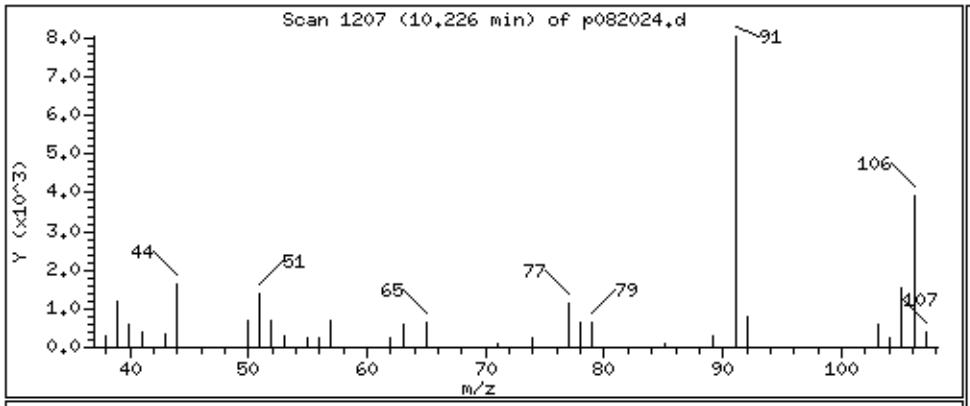
Operator: kk

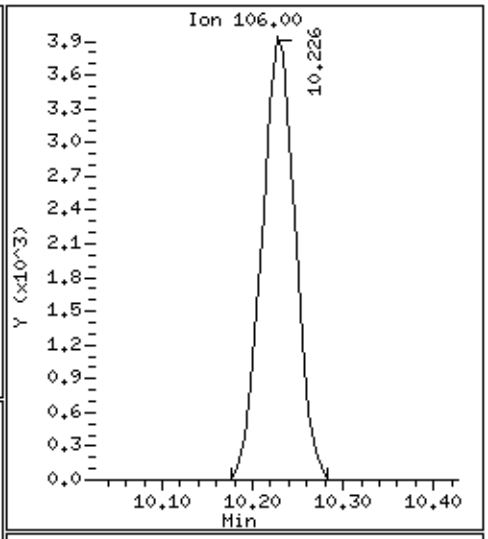
Column phase: RTX-624

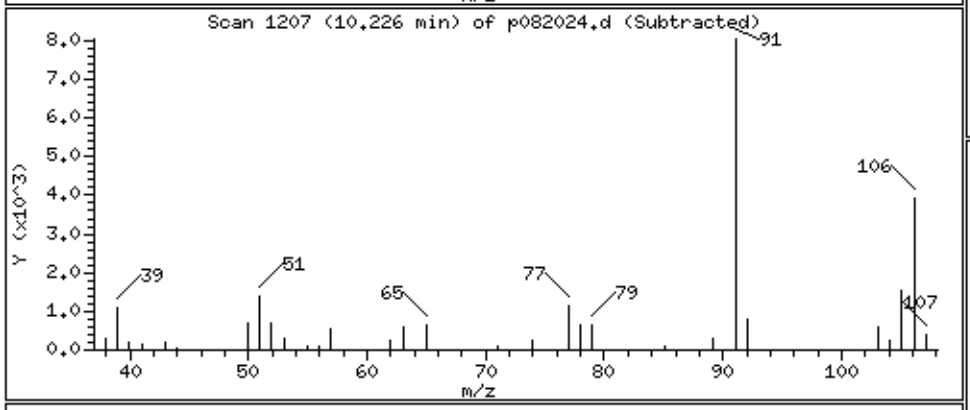
Column diameter: 0.25

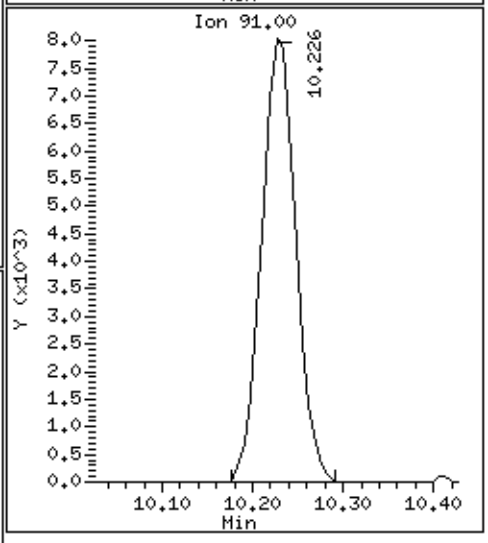
164 o-Xylene

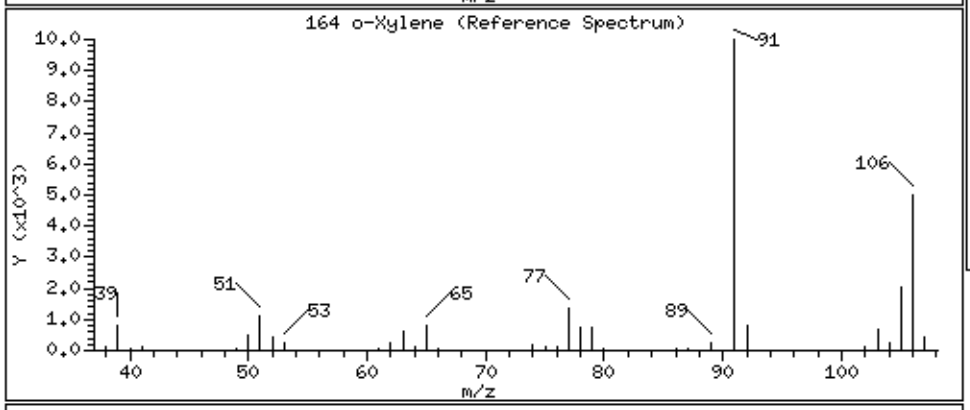
Concentration: 2.115 PPBV

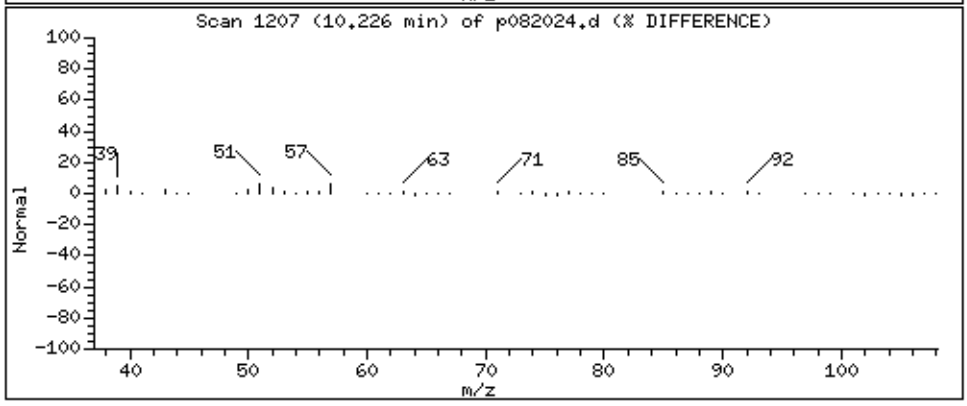












Data File: /chem/msdp.i/20AUG21.b/p082024.d

Date : 21-AUG-2021 01:44

Client ID:

Instrument: msdp.i

Sample Info: 200ml 34000236

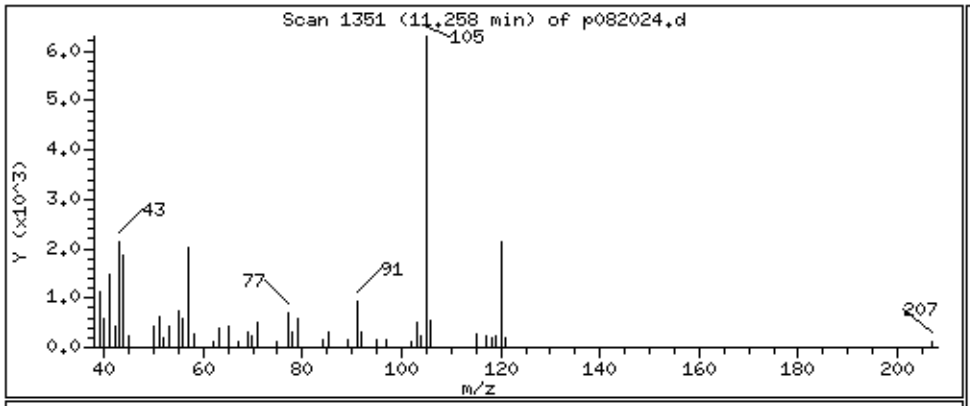
Operator: kk

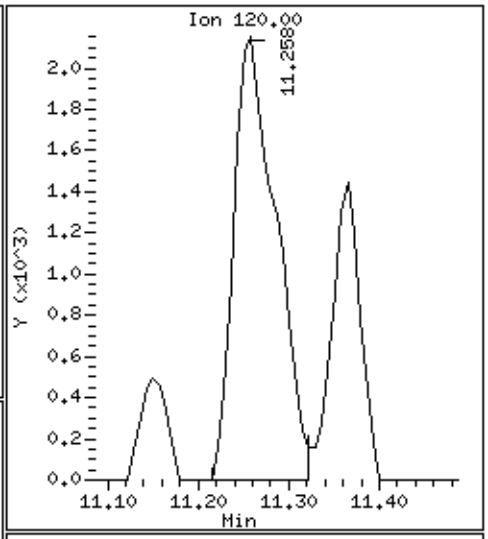
Column phase: RTX-624

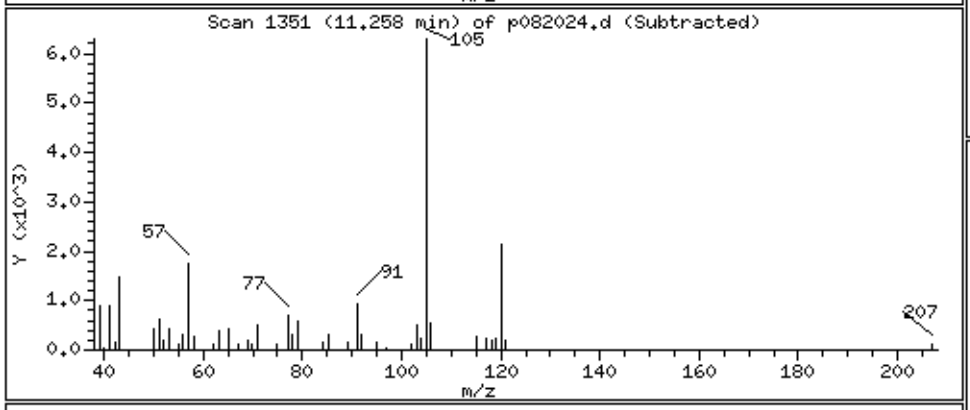
Column diameter: 0.25

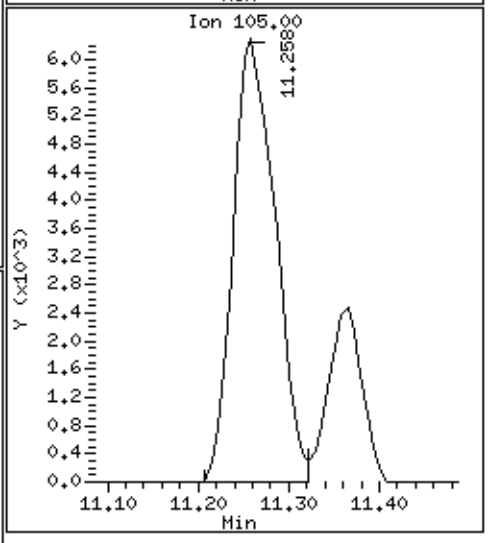
183 4-Ethyltoluene

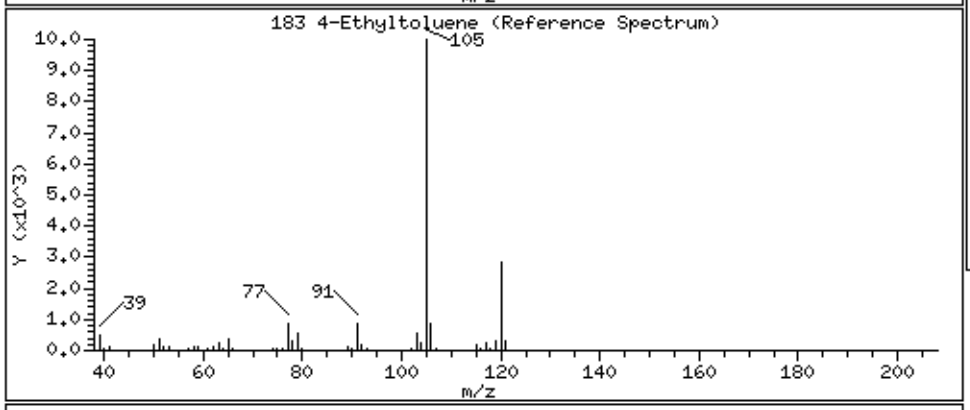
Concentration: 1.441 PPBV

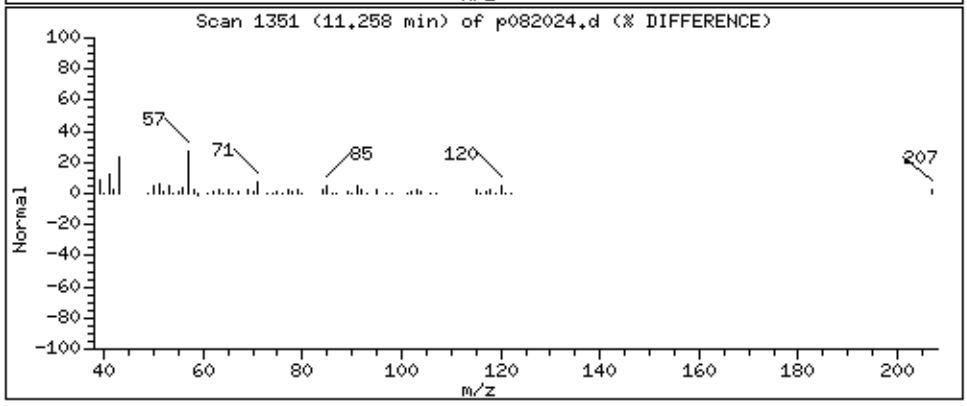












Data File: /chem/msdp.i/20AUG21.b/p082024.d

Date : 21-AUG-2021 01:44

Client ID:

Instrument: msdp.i

Sample Info: 200ml 34000236

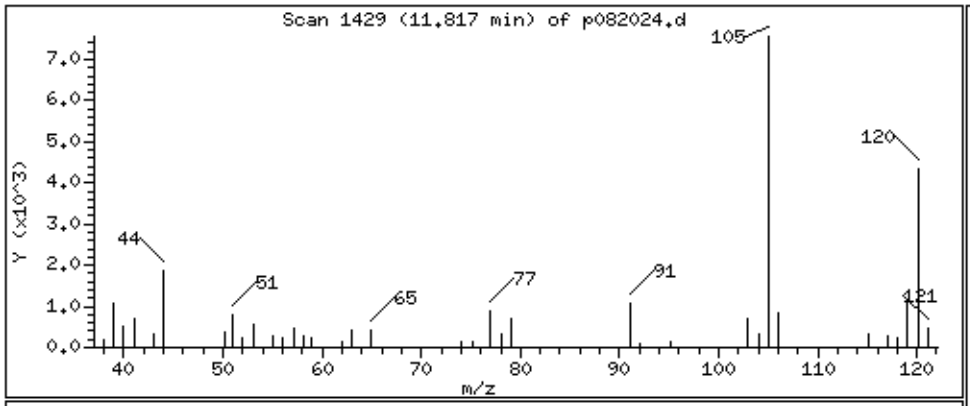
Operator: kk

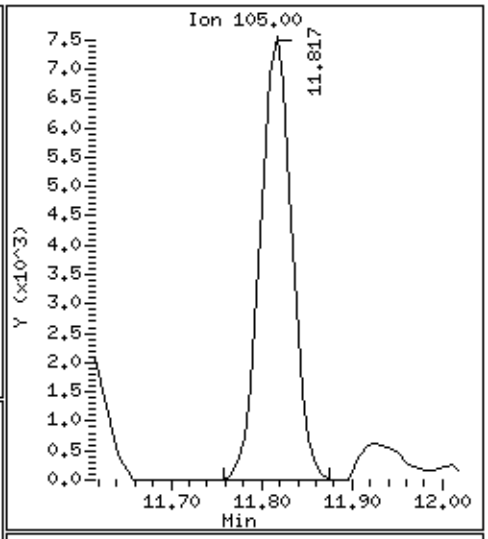
Column phase: RTX-624

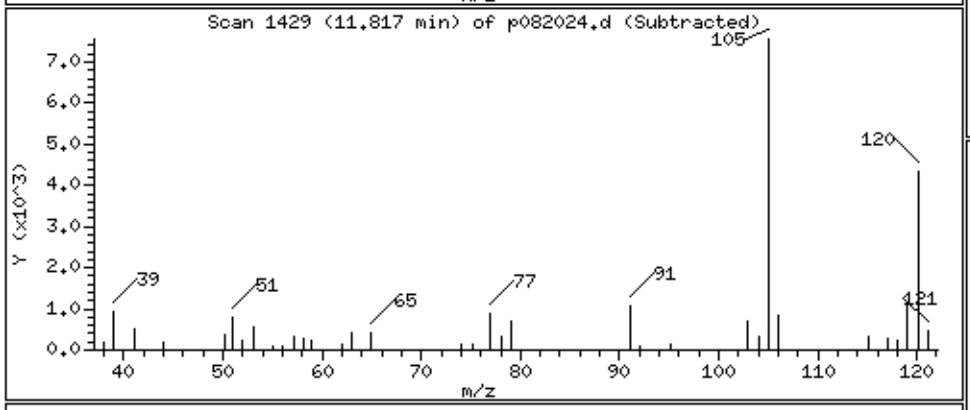
Column diameter: 0.25

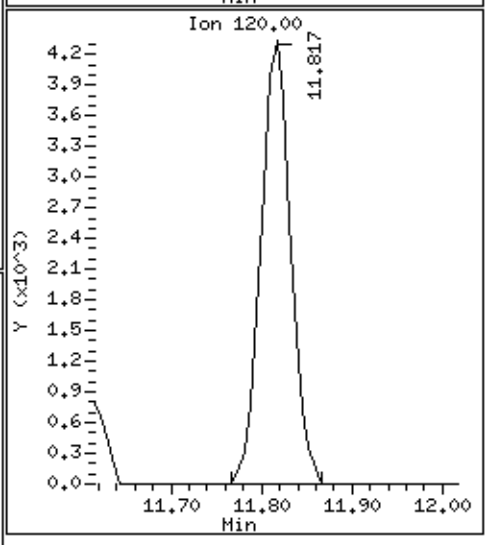
190 1,2,4-Trimethylbenzene

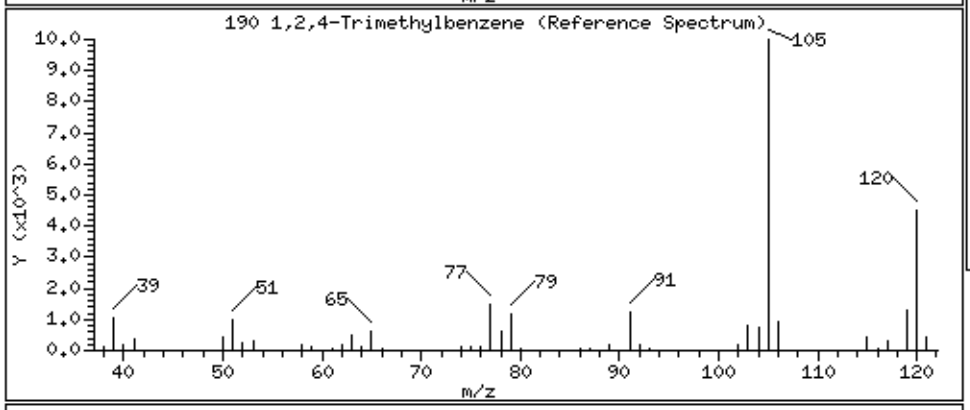
Concentration: 1.454 PPBV

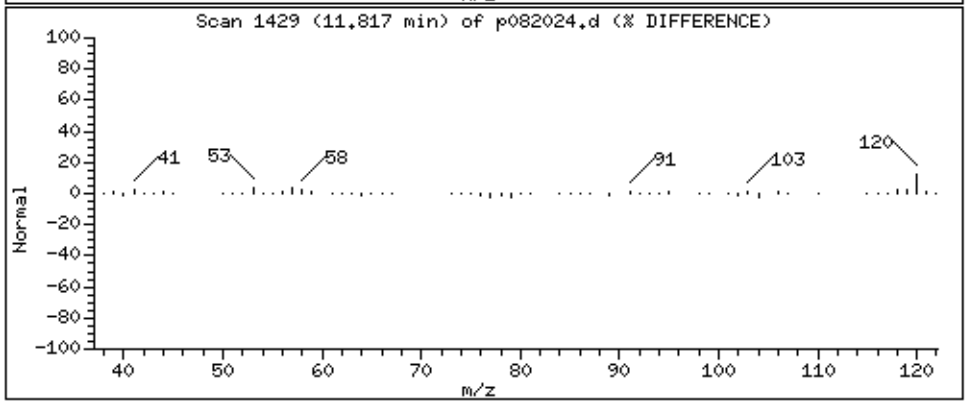












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Client Sample ID: SG-VW29A-03

Lab ID#: 2108390-16A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p082025**	**Date of Collection:**	**8/17/21 9:04:00 AM**
Dil. Factor:	**2.14**	**Date of Analysis:**	**8/21/21 02:14 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1,2-Tetrachloroethane	4.3	Not Detected	29	Not Detected
1,1,1-Trichloroethane	1.1	Not Detected	5.8	Not Detected
1,1,2,2-Tetrachloroethane	1.1	Not Detected	7.3	Not Detected
1,1,2-Trichloroethane	1.1	Not Detected	5.8	Not Detected
1,1-Dichloroethane	1.1	Not Detected	4.3	Not Detected
1,1-Dichloroethene	1.1	Not Detected	4.2	Not Detected
1,1-Difluoroethane	4.3	Not Detected	12	Not Detected
1,2,3-Trichloropropane	4.3	Not Detected	26	Not Detected
1,2,4-Trichlorobenzene	4.3	Not Detected	32	Not Detected
1,2,4-Trimethylbenzene	1.1	1.6	5.2	8.1
1,2-Dibromo-3-chloropropane	4.3	Not Detected	41	Not Detected
1,2-Dibromoethane (EDB)	1.1	Not Detected	8.2	Not Detected
1,2-Dichlorobenzene	1.1	Not Detected	6.4	Not Detected
1,2-Dichloroethane	1.1	Not Detected	4.3	Not Detected
1,2-Dichloropropane	1.1	Not Detected	4.9	Not Detected
1,3,5-Trimethylbenzene	1.1	Not Detected	5.3	Not Detected
1,3-Butadiene	1.1	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	1.1	Not Detected	6.4	Not Detected
1,4-Dichlorobenzene	1.1	Not Detected	6.4	Not Detected
1,4-Dioxane	4.3	Not Detected	15	Not Detected
2,2,4-Trimethylpentane	1.1	Not Detected	5.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.3	Not Detected	13	Not Detected
2-Hexanone	4.3	Not Detected	18	Not Detected
2-Propanol	4.3	7.6	10	19
3-Chloropropene	4.3	Not Detected	13	Not Detected
4-Ethyltoluene	1.1	1.4	5.3	6.9
4-Methyl-2-pentanone	1.1	Not Detected	4.4	Not Detected
Acetone	11	Not Detected	25	Not Detected
Acrolein	4.3	Not Detected	9.8	Not Detected
Acrylonitrile	4.3	Not Detected	9.3	Not Detected
alpha-Chlorotoluene	1.1	Not Detected	5.5	Not Detected
Benzene	1.1	Not Detected	3.4	Not Detected
Bromodichloromethane	1.1	Not Detected	7.2	Not Detected
Bromoform	1.1	Not Detected	11	Not Detected
Bromomethane	11	Not Detected	42	Not Detected
Carbon Disulfide	4.3	Not Detected	13	Not Detected
Carbon Tetrachloride	1.1	Not Detected	6.7	Not Detected
Chlorobenzene	1.1	Not Detected	4.9	Not Detected
Chloroethane	4.3	Not Detected	11	Not Detected
Chloroform	1.1	Not Detected	5.2	Not Detected
Chloromethane	11	Not Detected	22	Not Detected
cis-1,2-Dichloroethene	1.1	Not Detected	4.2	Not Detected

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Client Sample ID: SG-VW29A-03

Lab ID#: 2108390-16A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p082025**	**Date of Collection:**	**8/17/21 9:04:00 AM**
Dil. Factor:	**2.14**	**Date of Analysis:**	**8/21/21 02:14 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,3-Dichloropropene	1.1	Not Detected	4.8	Not Detected
Cumene	1.1	Not Detected	5.2	Not Detected
Cyclohexane	1.1	Not Detected	3.7	Not Detected
Dibromochloromethane	1.1	Not Detected	9.1	Not Detected
Dibromomethane	4.3	Not Detected	30	Not Detected
Ethanol	11	13	20	25
Ethyl Acetate	4.3	Not Detected	15	Not Detected
Ethyl Benzene	1.1	1.3	4.6	5.7
Ethyl-tert-butyl ether	4.3	Not Detected	18	Not Detected
Freon 11	1.1	Not Detected	6.0	Not Detected
Freon 12	1.1	1.2	5.3	5.7
Freon 113	1.1	Not Detected	8.2	Not Detected
Freon 114	1.1	Not Detected	7.5	Not Detected
Freon 134a	4.3	Not Detected	18	Not Detected
Heptane	1.1	Not Detected	4.4	Not Detected
Hexachlorobutadiene	4.3	Not Detected	46	Not Detected
Hexachloroethane	4.3	Not Detected	41	Not Detected
Hexane	1.1	68	3.8	240
Iodomethane	11	Not Detected	62	Not Detected
Isopropyl ether	4.3	Not Detected	18	Not Detected
m,p-Xylene	1.1	4.9	4.6	21
Methyl tert-butyl ether	4.3	Not Detected	15	Not Detected
Methylene Chloride	11	Not Detected	37	Not Detected
Naphthalene	2.1	Not Detected	11	Not Detected
o-Xylene	1.1	1.8	4.6	7.8
Propylbenzene	1.1	Not Detected	5.3	Not Detected
Propylene	4.3	Not Detected	7.4	Not Detected
Styrene	1.1	Not Detected	4.6	Not Detected
tert-Amyl methyl ether	4.3	Not Detected	18	Not Detected
tert-Butyl alcohol	4.3	Not Detected	13	Not Detected
Tetrachloroethene	1.1	21	7.2	140
Tetrahydrofuran	1.1	Not Detected	3.2	Not Detected
Toluene	1.1	3.6	4.0	13
TPH ref. to Gasoline (MW=100)	110	120	440	490
trans-1,2-Dichloroethene	1.1	Not Detected	4.2	Not Detected
trans-1,3-Dichloropropene	1.1	Not Detected	4.8	Not Detected
Trichloroethene	1.1	Not Detected	5.8	Not Detected
Vinyl Acetate	4.3	Not Detected	15	Not Detected
Vinyl Bromide	4.3	Not Detected	19	Not Detected
Vinyl Chloride	1.1	Not Detected	2.7	Not Detected

Container Type: 1 Liter Summa Canister

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Client Sample ID: SG-VW29A-03

Lab ID#: 2108390-16A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p082025**	**Date of Collection:**	**8/17/21 9:04:00 AM**
Dil. Factor:	**2.14**	**Date of Analysis:**	**8/21/21 02:14 AM**

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	110	70-130
4-Bromofluorobenzene	103	70-130

US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/20AUG21.b/p082025.d
Lab Smp Id: 2108390-16A
Inj Date : 21-AUG-2021 02:14
Operator : kk Inst ID: msdp.i
Smp Info : 200ml N5638
Misc Info : 6.5 Hg->10 psi
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/20AUG21.b/p21q0519a.m
Meth Date : 20-Aug-2021 12:59 p5fl Quant Type: ISTD
Cal Date : 19-MAY-2021 19:45 Cal File: p051915.d
Als bottle: 7
Dil Factor: 2.14000
Integrator: HP RTE Compound Sublist: AEC25677.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE		(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 90 Bromochloromethane						CAS #: 74-97-5		
5.785	5.785 (1.000)	130	105089	25.0000			80.00- 120.00	100.00
5.785	5.785 (1.000)	128	83060				48.23- 108.23	79.04
5.785	5.778 (1.000)	49	246227				150.57- 210.57	234.30
* 108 1,4-Difluorobenzene						CAS #: 540-36-3		
6.666	6.659 (1.000)	114	372375	25.0000			80.00- 120.00	100.00
6.666	6.659 (1.000)	88	55700				0.00- 45.71	14.96
* 153 Chlorobenzene-d5						CAS #: 3114-55-4		
9.460	9.460 (1.000)	117	388321	25.0000			80.00- 120.00	100.00
9.460	9.460 (1.000)	82	195007				23.78- 83.78	50.22
$ 104 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
6.315	6.315 (1.092)	65	159079	27.4294	27.429		80.00- 120.00	100.00
6.315	6.315 (1.092)	67	74429				27.21- 87.21	46.79
$ 134 Toluene-d8						CAS #: 2037-26-5		
7.891	7.891 (1.184)	98	408983	25.2927	25.293		80.00- 120.00	100.00
7.891	7.891 (1.184)	70	45960				0.00- 40.44	11.24

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 134 Toluene-d8 (continued)							
7.891	7.891 (1.184)	100	264970			34.95- 94.95	64.79
$ 170 4-Bromofluorobenzene					CAS #: 460-00-4		
10.921	10.921 (1.154)	174	256121	25.6849	25.685	80.00- 120.00	100.00
10.921	10.914 (1.154)	95	295202			95.92- 155.92	115.26
10.921	10.921 (1.154)	176	242556			66.89- 126.89	94.70
8 Freon 12					CAS #: 75-71-8		
1.731	1.717 (0.299)	85	5075	0.53844	1.152	80.00- 120.00	100.00
1.731	1.717 (0.299)	87	1760			2.37- 62.37	34.68
39 Ethanol					CAS #: 64-17-5		
3.250	3.242 (0.562)	46	6500	6.23704	13.347	80.00- 120.00	100.00
3.257	3.285 (0.563)	45	17658			511.19- 571.19	271.67
52 2-Propanol					CAS #: 67-63-0		
3.909	3.894 (0.676)	45	39461	3.55389	7.605	80.00- 120.00	100.00
3.901	3.894 (0.674)	43	7888			0.00- 47.19	19.99
67 Hexane					CAS #: 110-54-3		
4.704	4.697 (0.813)	57	330914	31.9647	68.404	80.00- 120.00	100.00
4.704	4.697 (0.813)	43	267018			37.52- 97.52	80.69
4.704	4.697 (0.813)	86	33624			0.00- 41.48	10.16
137 Toluene					CAS #: 108-88-3		
7.956	7.956 (1.193)	91	28293	1.66885	3.571	80.00- 120.00	100.00
7.956	7.956 (1.193)	92	15976			28.38- 88.38	56.47
142 Tetrachloroethene					CAS #: 127-18-4		
8.471	8.464 (0.895)	166	85688	9.68209	20.720	80.00- 120.00	100.00
8.471	8.464 (0.895)	129	63807			47.84- 107.84	74.47
8.471	8.464 (0.895)	131	61187			45.29- 105.29	71.41
155 Ethyl Benzene					CAS #: 100-41-4		
9.567	9.567 (1.011)	106	4917	0.60983	1.305	80.00- 120.00	100.00
9.567	9.567 (1.011)	91	15956			273.74- 333.74	324.50
158 m,p-Xylene					CAS #: 108-38-3		
9.718	9.718 (1.027)	106	23062	2.28374	4.887	80.00- 120.00	100.00
9.718	9.718 (1.027)	91	46150			163.73- 223.73	200.11
164 o-Xylene					CAS #: 95-47-6		
10.226	10.226 (1.081)	106	8115	0.83873	1.795	80.00- 120.00	100.00
10.226	10.226 (1.081)	91	17803			177.45- 237.45	219.38

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
183 4-Ethyltoluene					CAS #: 622-96-8		
11.258	11.287 (1.190)	120	6393	0.65231	1.396	80.00- 120.00	100.00
11.258	11.287 (1.190)	105	20088			284.55- 344.55	314.20
190 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
11.817	11.817 (1.249)	105	19659	0.77188	1.652	80.00- 120.00	100.00
11.817	11.817 (1.249)	120	9436			19.05- 79.05	48.00

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INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p082025.d
Lab Smp Id: 2108390-16A
Analysis Type: VOA
Quant Type: ISTD
Operator: kk
Method File: /chem/msdp.i/20AUG21.b/p21q0519a.m
Misc Info: 6.5 Hg->10 psi

Calibration Date: 20-AUG-2021
Calibration Time: 11:13
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	109375	65625	153125	105089	-3.92
108 1,4-Difluorobenze	406799	244079	569519	372375	-8.46
153 Chlorobenzene-d5	400841	240505	561177	388321	-3.12

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.79	5.46	6.12	5.79	0.00
108 1,4-Difluorobenze	6.66	6.33	6.99	6.67	0.11
153 Chlorobenzene-d5	9.46	9.13	9.79	9.46	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 24-Aug-2021 11:48

US32TAR1

RECOVERY REPORT

Client Name: Client SDG: 20AUG21
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 2108390-16A
Level: LOW Operator: kk
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT20_new.spk Quant Type: ISTD
Sublist File: AEC25677.sub
Method File: /chem/msdp.i/20AUG21.b/p21q0519a.m
Misc Info: 6.5 Hg->10 psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 104 1,2-Dichloroethan	25.000	27.429	109.72	70-130
$ 134 Toluene-d8	25.000	25.293	101.17	70-130
$ 170 4-Bromofluorobenz	25.000	25.685	102.74	70-130

Data File: /chem/msdp.i/20AUG21.b/p082025.d

Date : 21-AUG-2021 02:14

Client ID:

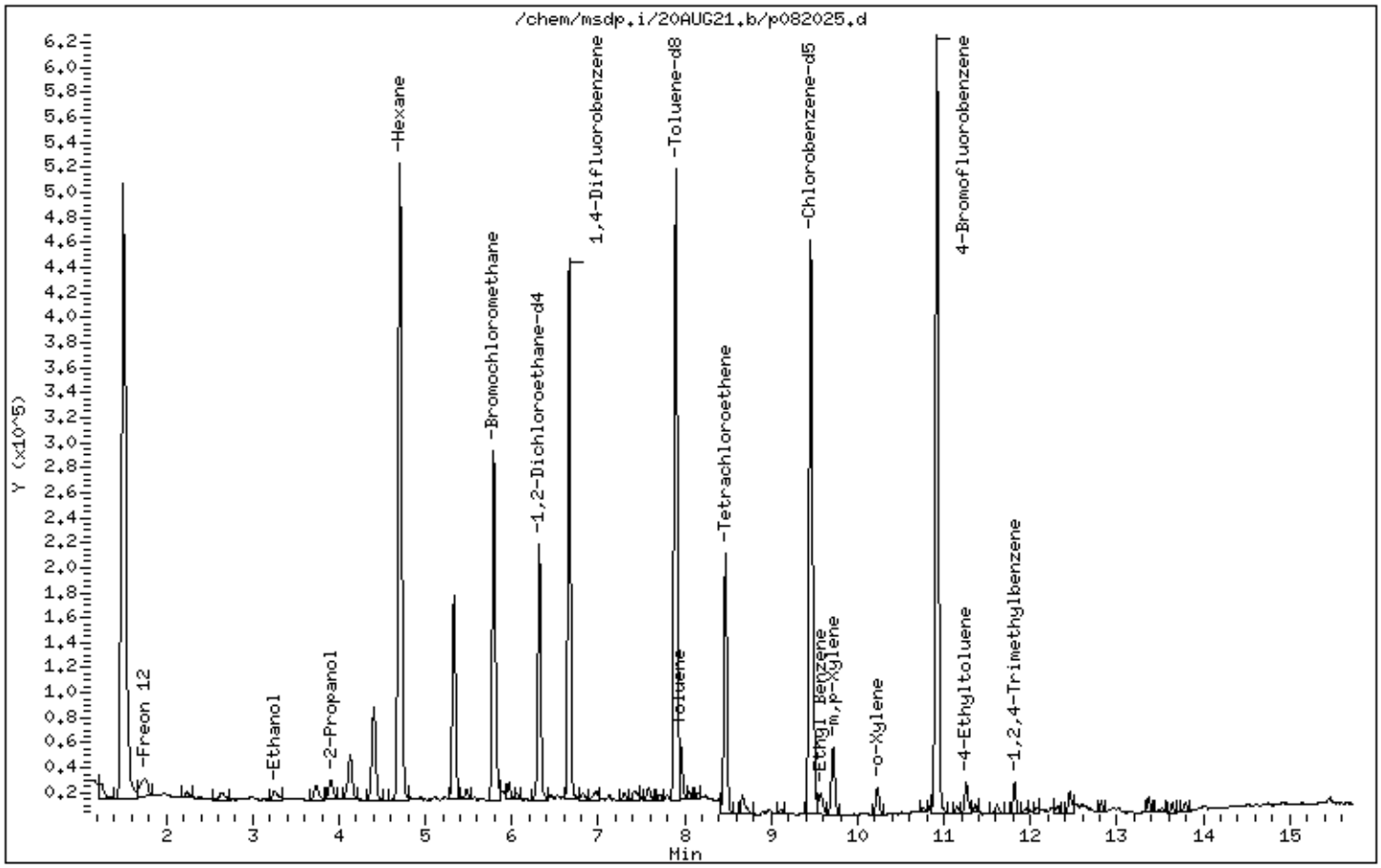
Instrument: msdp.i

Sample Info: 200ml N5638

Operator: kk

Column phase: RTX-624

Column diameter: 0.25



Data File: /chem/msdp.i/20AUG21.b/p082025.d

Date : 21-AUG-2021 02:14

Client ID:

Instrument: msdp.i

Sample Info: 200ml N5638

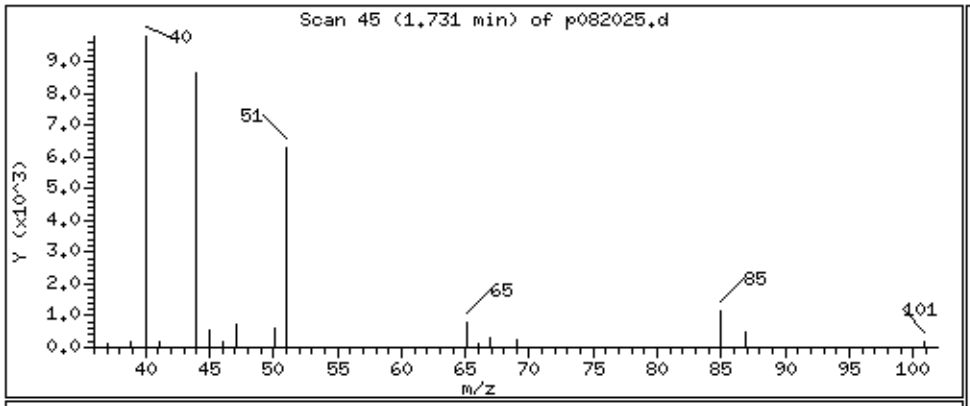
Operator: kk

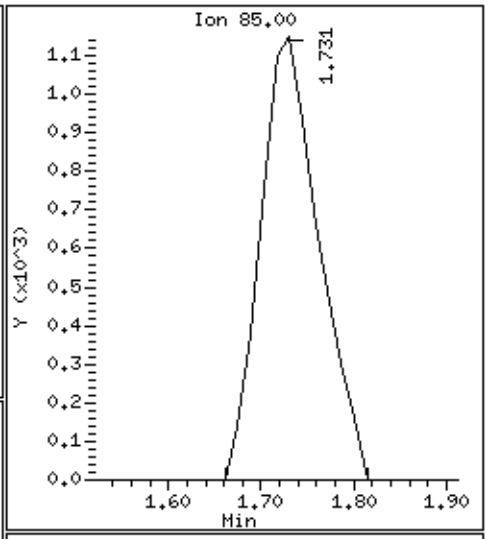
Column phase: RTX-624

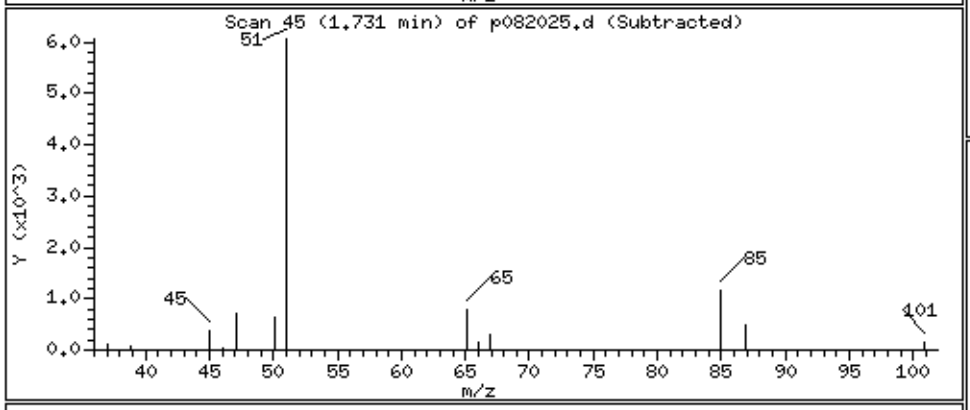
Column diameter: 0.25

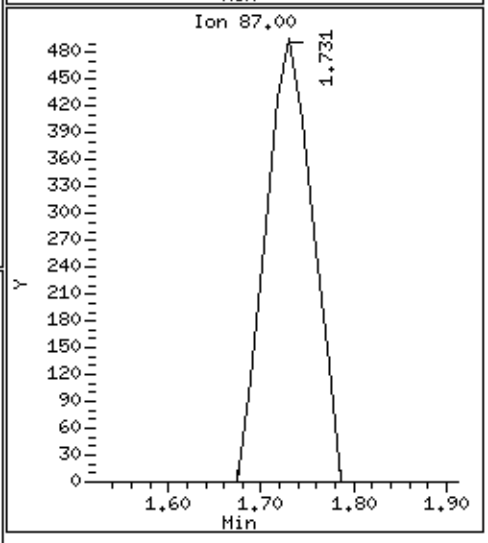
8 Freon 12

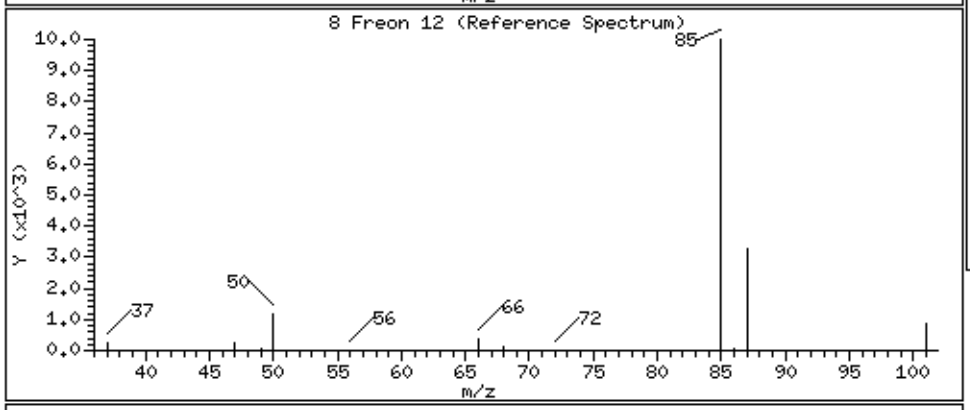
Concentration: 1.152 PPBV

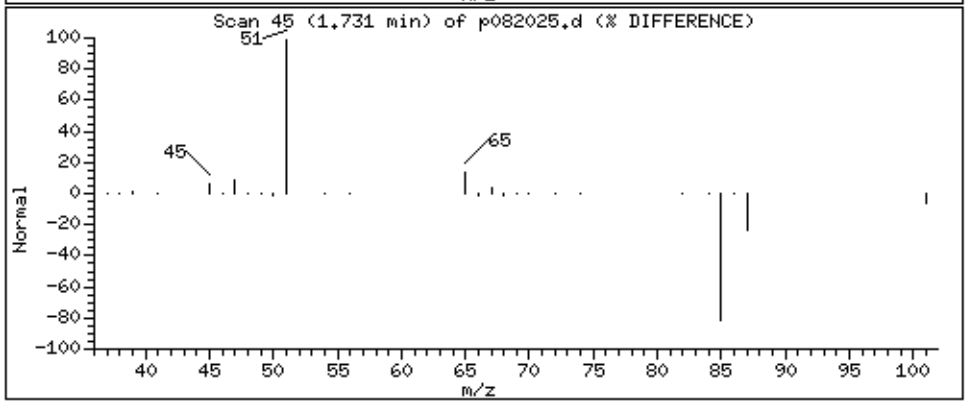












Data File: /chem/msdp.i/20AUG21.b/p082025.d

Date : 21-AUG-2021 02:14

Client ID:

Instrument: msdp.i

Sample Info: 200ml N5638

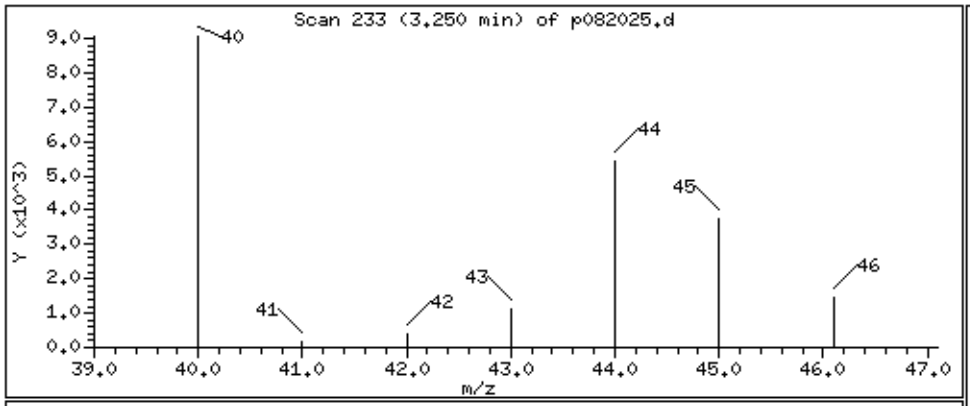
Operator: kk

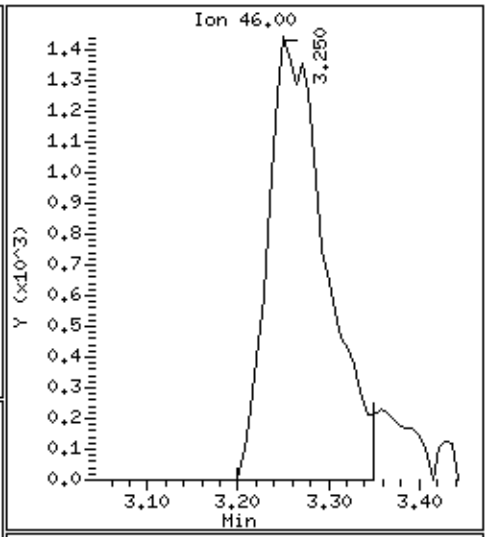
Column phase: RTX-624

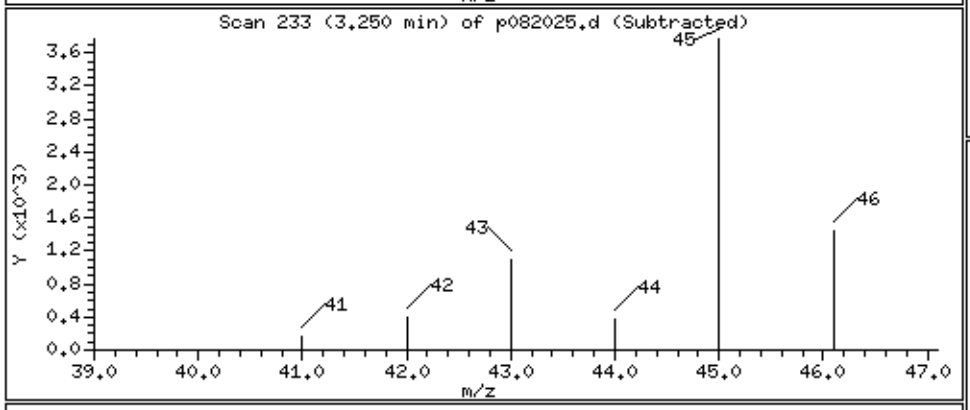
Column diameter: 0.25

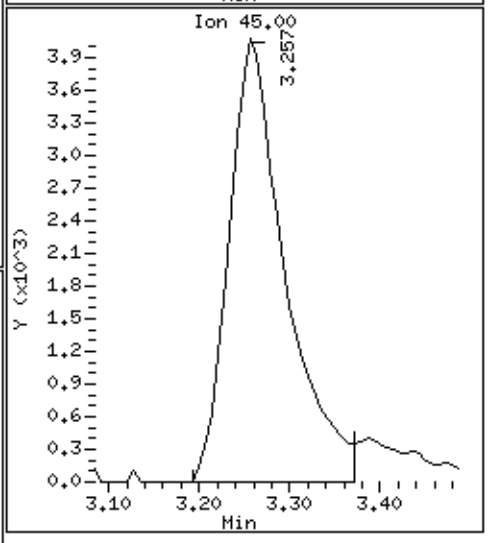
39 Ethanol

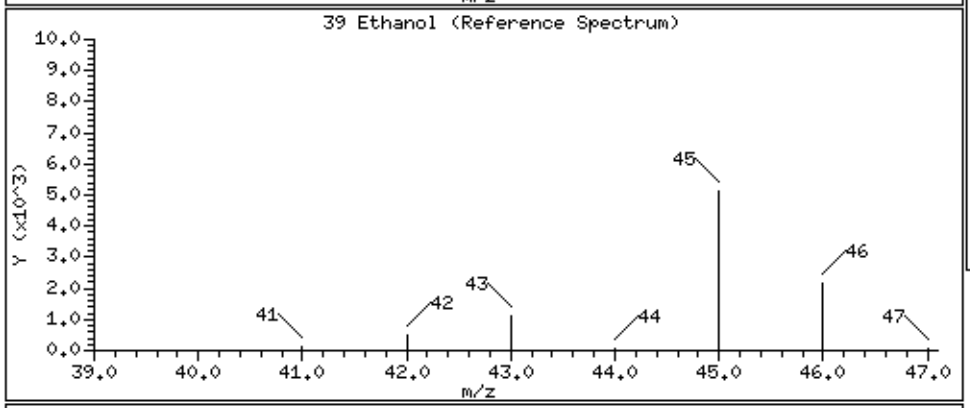
Concentration: 13.347 PPBV

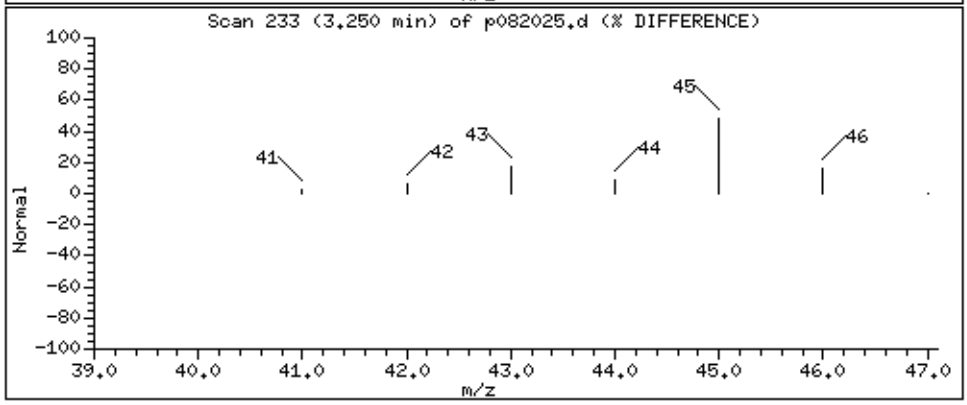












Data File: /chem/msdp.i/20AUG21.b/p082025.d

Date : 21-AUG-2021 02:14

Client ID:

Instrument: msdp.i

Sample Info: 200ml N5638

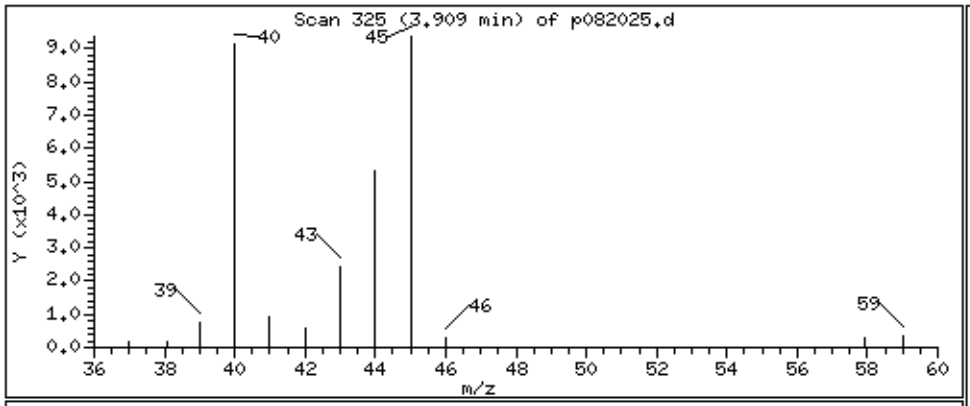
Operator: kk

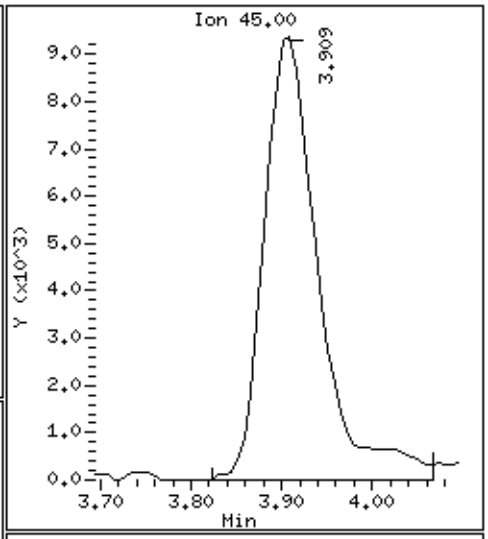
Column phase: RTX-624

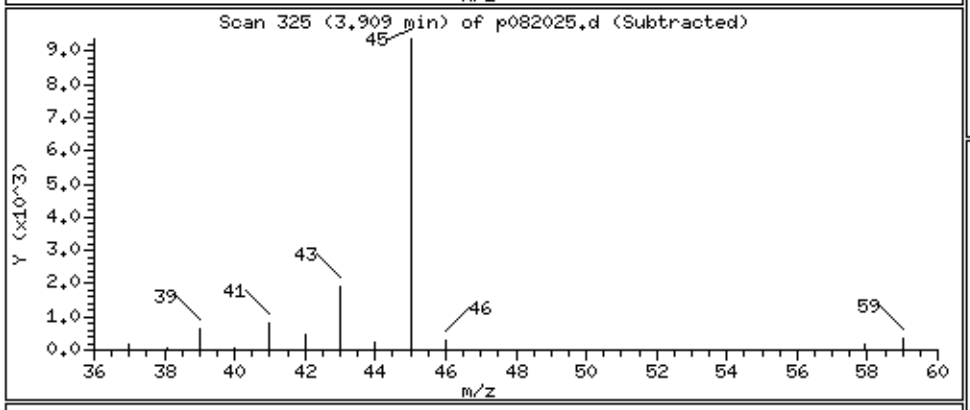
Column diameter: 0.25

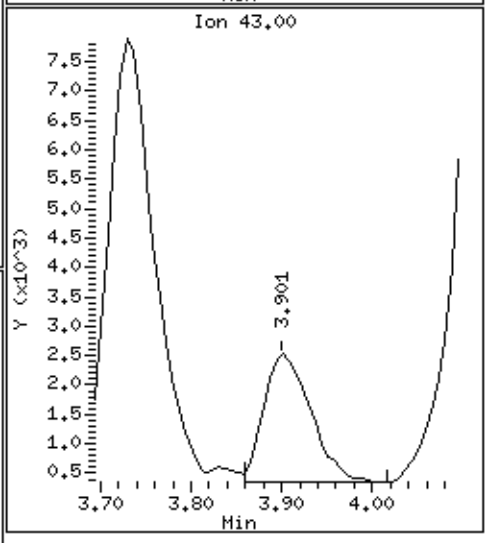
52 2-Propanol

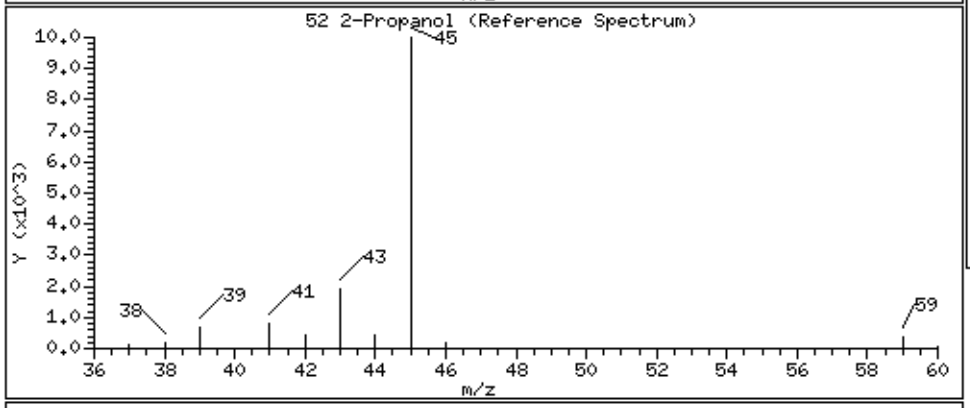
Concentration: 7.605 PPBV

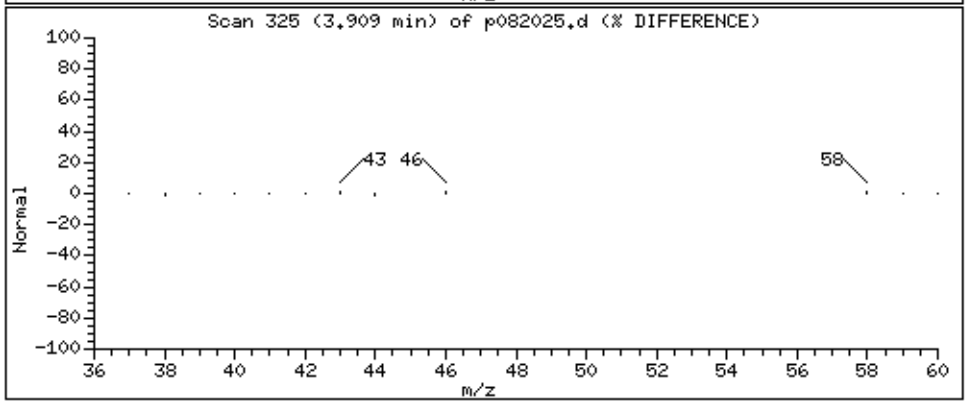












Data File: /chem/msdp.i/20AUG21.b/p082025.d

Date : 21-AUG-2021 02:14

Client ID:

Instrument: msdp.i

Sample Info: 200ml N5638

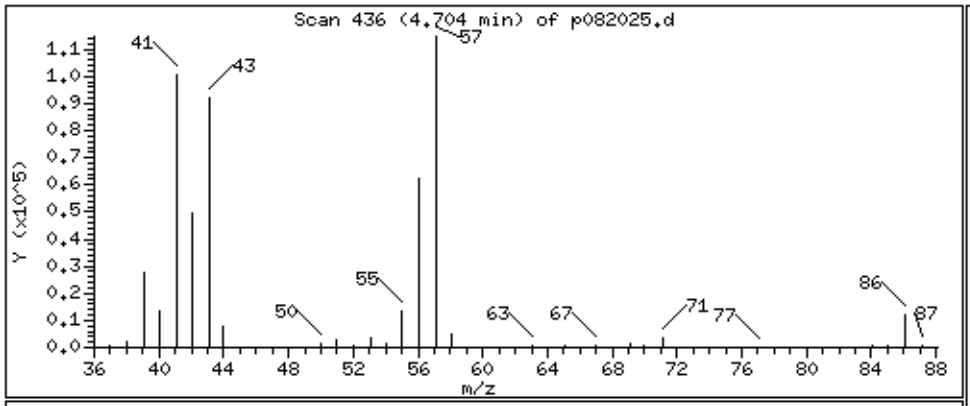
Operator: kk

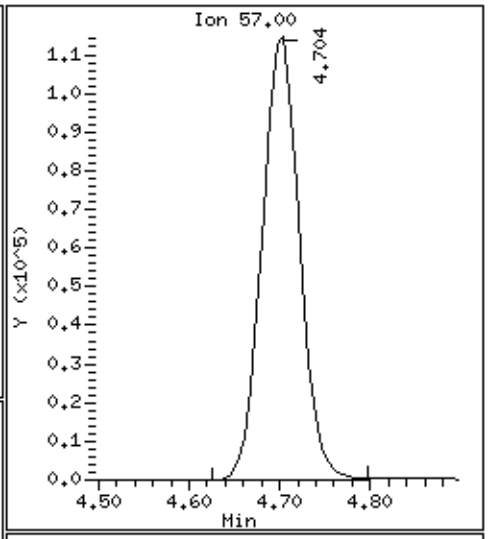
Column phase: RTX-624

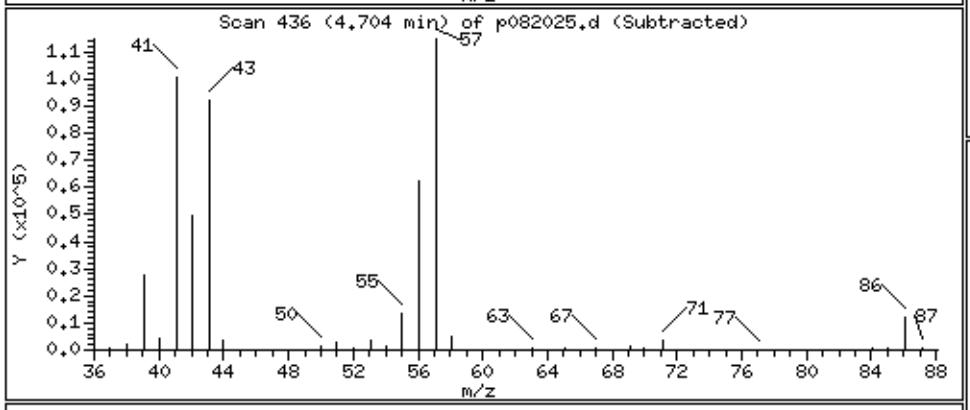
Column diameter: 0.25

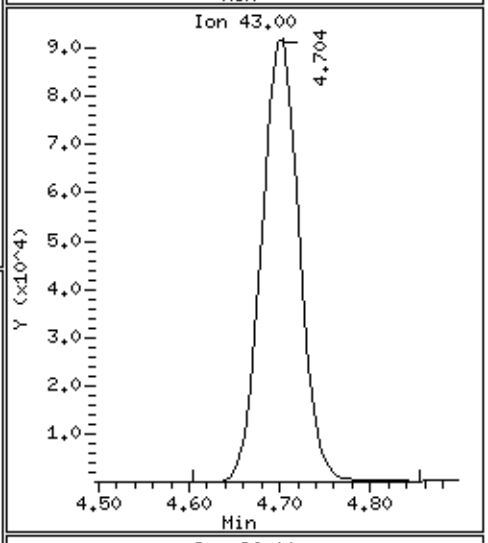
67 Hexane

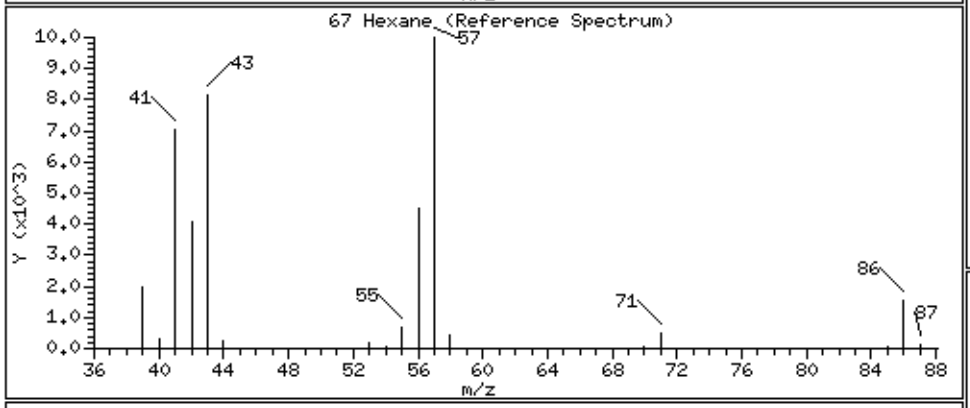
Concentration: 68.404 PPBV

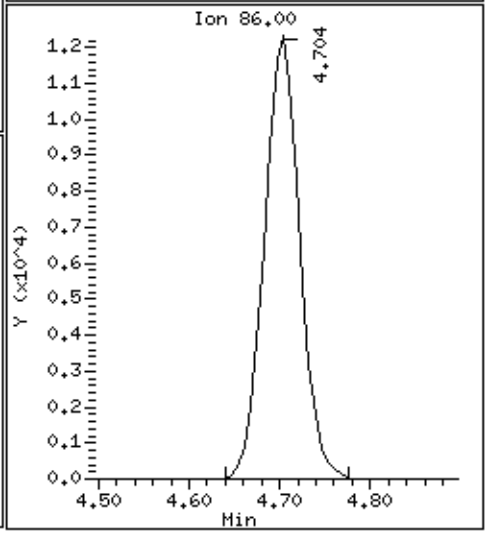


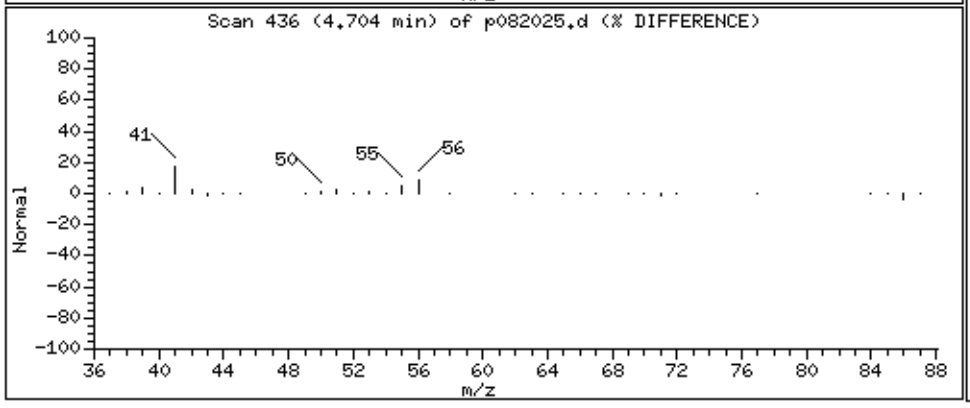












Data File: /chem/msdp.i/20AUG21.b/p082025.d

Date : 21-AUG-2021 02:14

Client ID:

Instrument: msdp.i

Sample Info: 200ml N5638

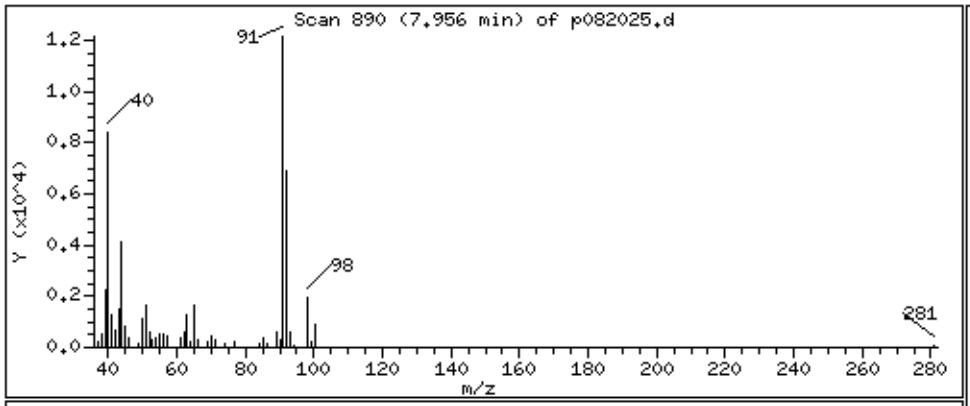
Operator: kk

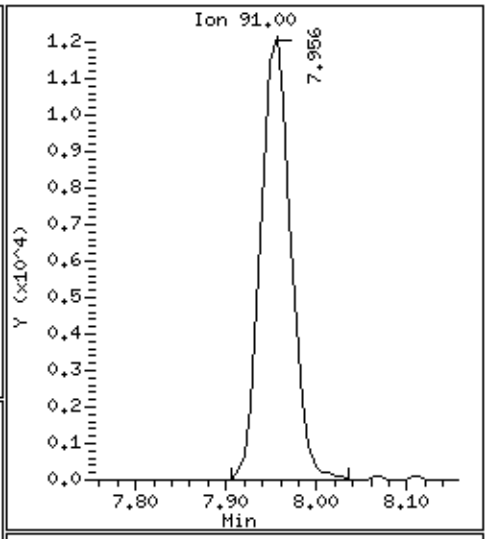
Column phase: RTX-624

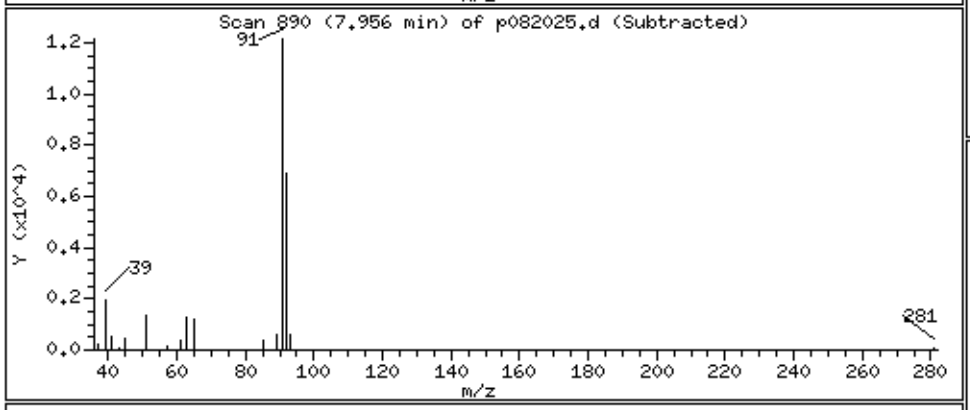
Column diameter: 0.25

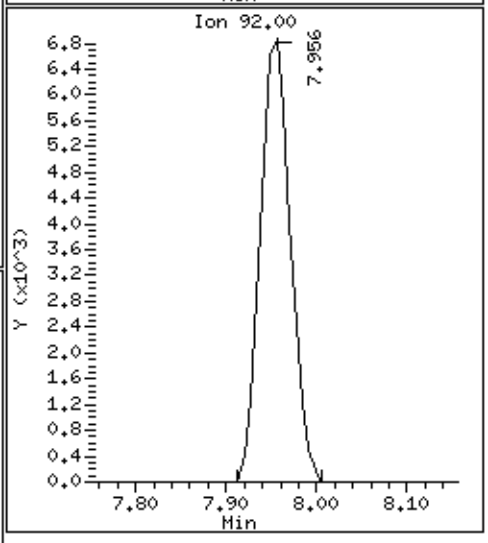
137 Toluene

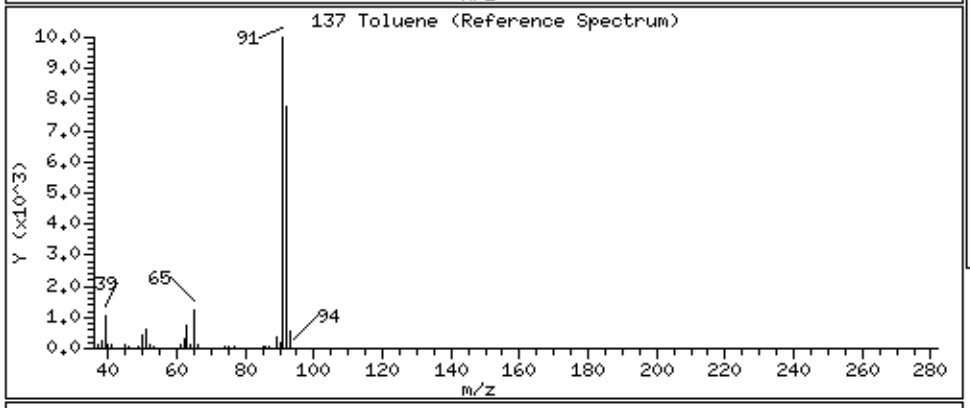
Concentration: 3.571 PPBV

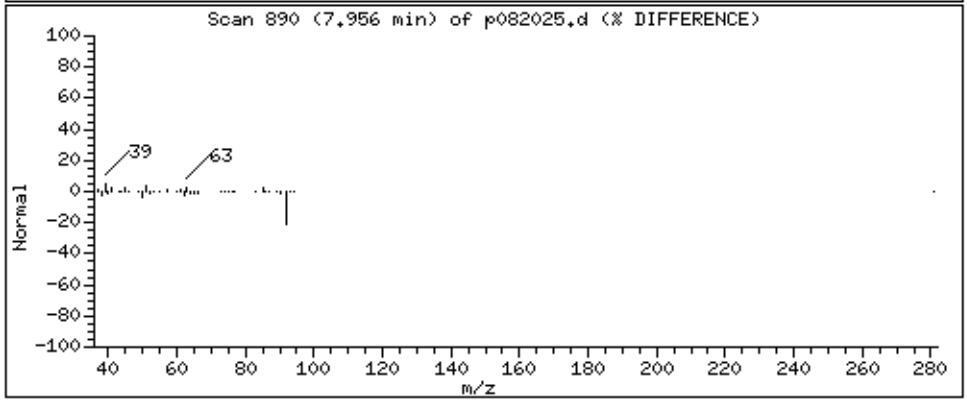












Data File: /chem/msdp.i/20AUG21.b/p082025.d

Date : 21-AUG-2021 02:14

Client ID:

Instrument: msdp.i

Sample Info: 200ml N5638

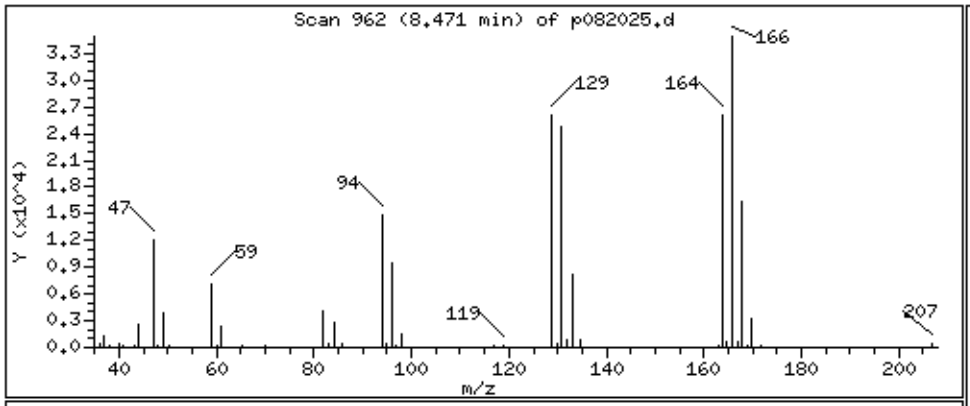
Operator: kk

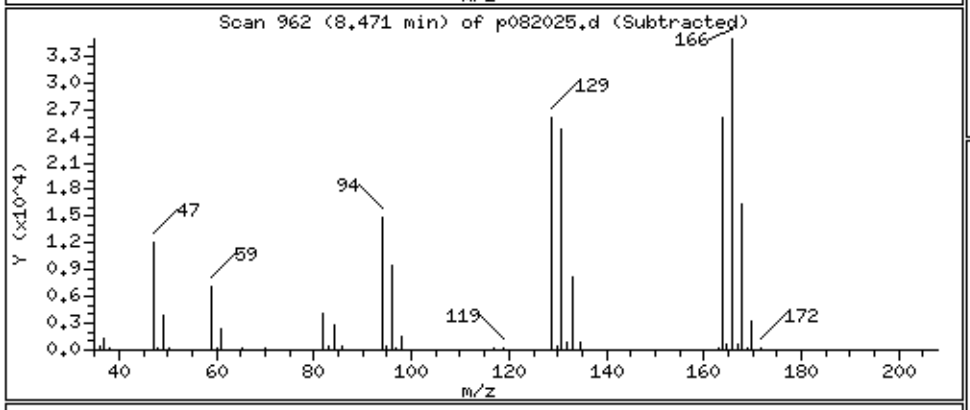
Column phase: RTX-624

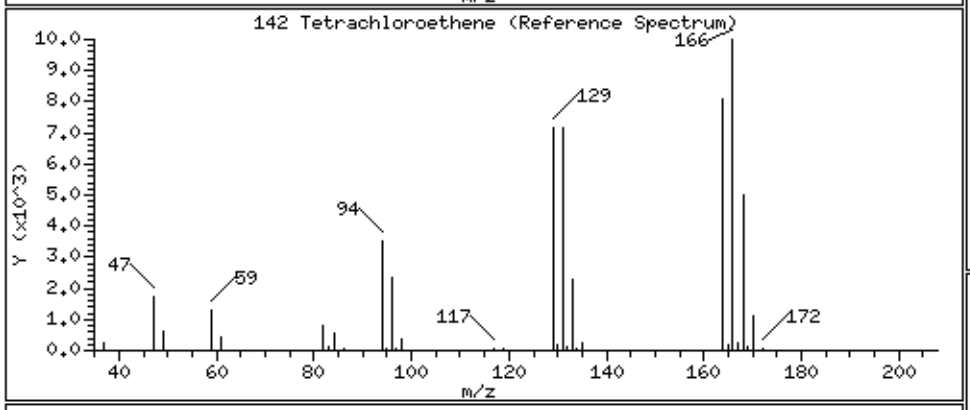
Column diameter: 0.25

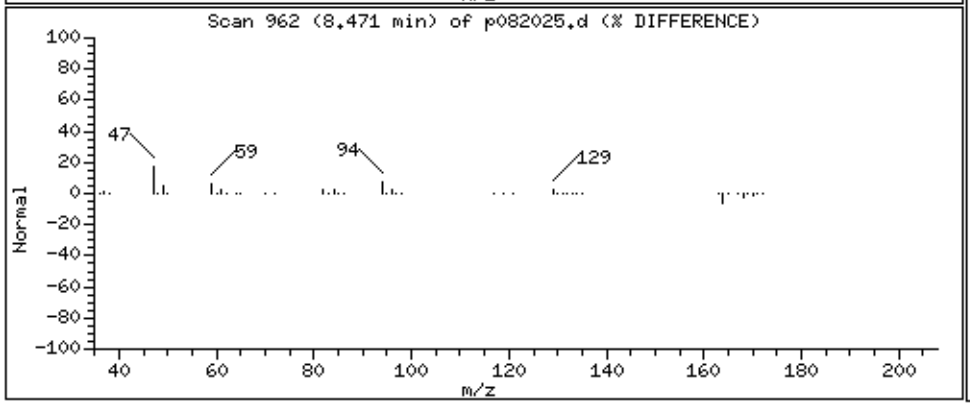
142 Tetrachloroethene

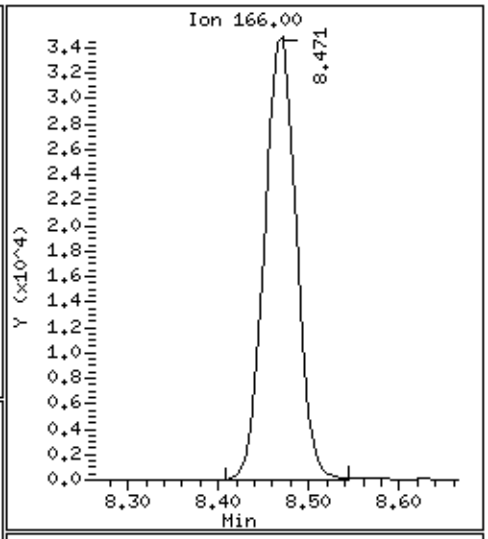
Concentration: 20.720 PPBV

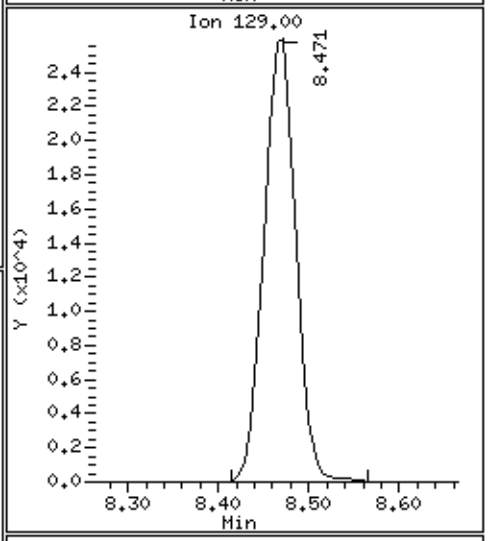


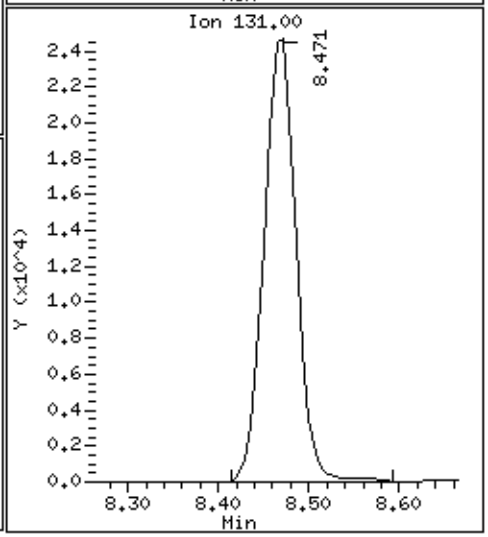












Data File: /chem/msdp.i/20AUG21.b/p082025.d

Date : 21-AUG-2021 02:14

Client ID:

Instrument: msdp.i

Sample Info: 200ml N5638

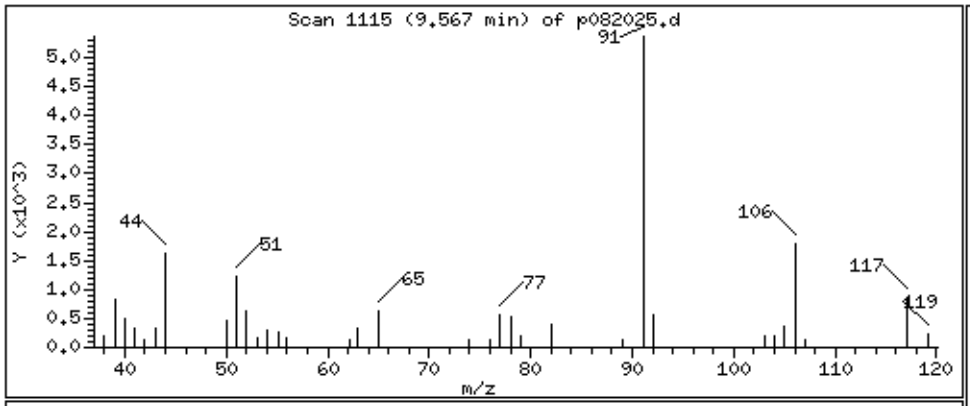
Operator: kk

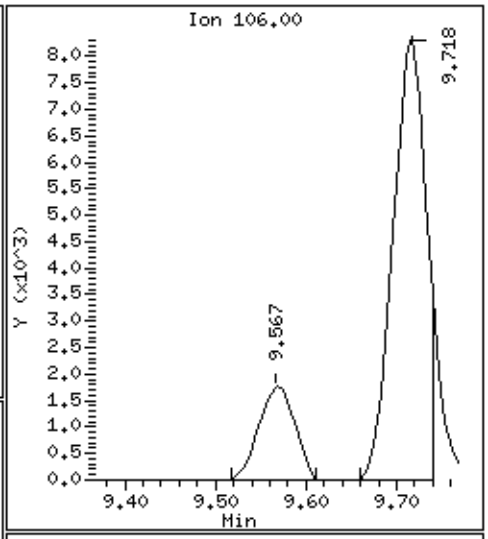
Column phase: RTX-624

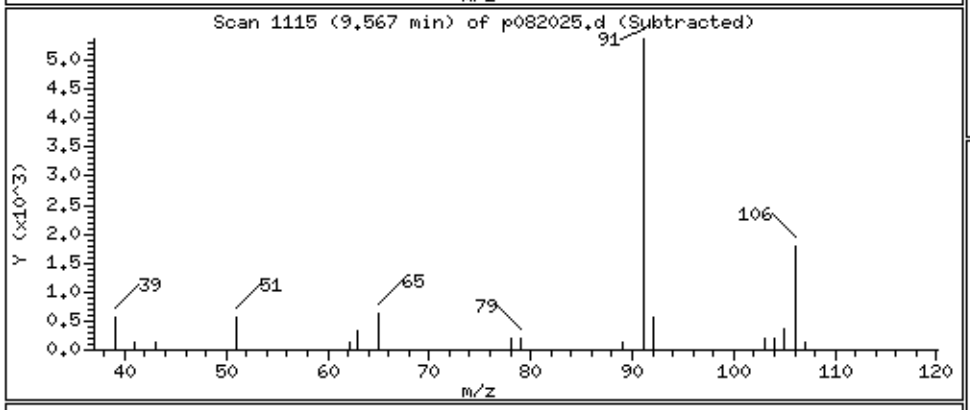
Column diameter: 0.25

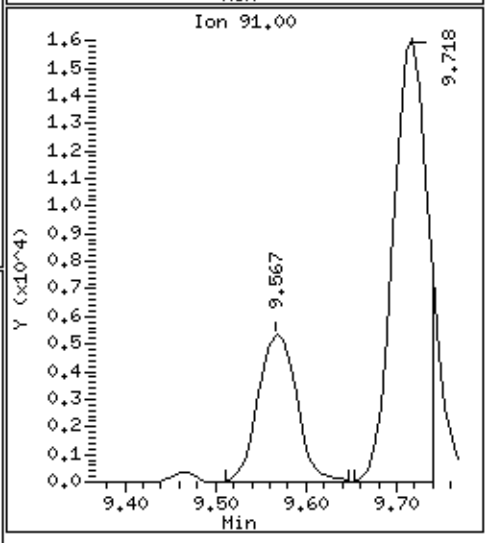
155 Ethyl Benzene

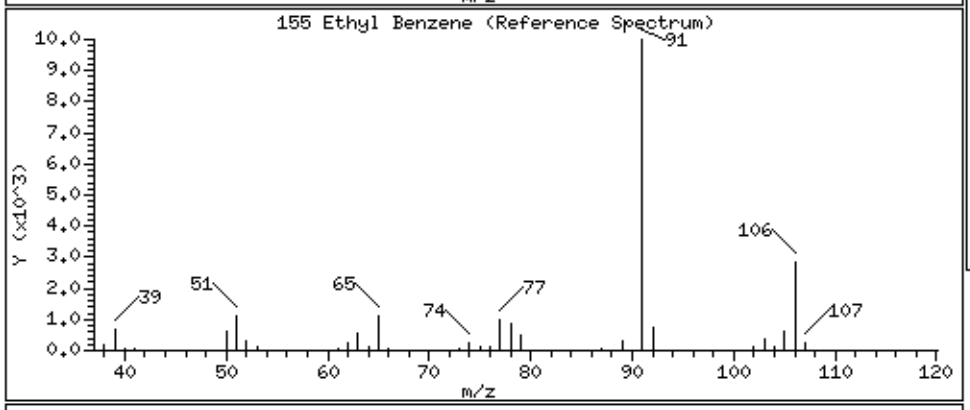
Concentration: 1.305 PPBV

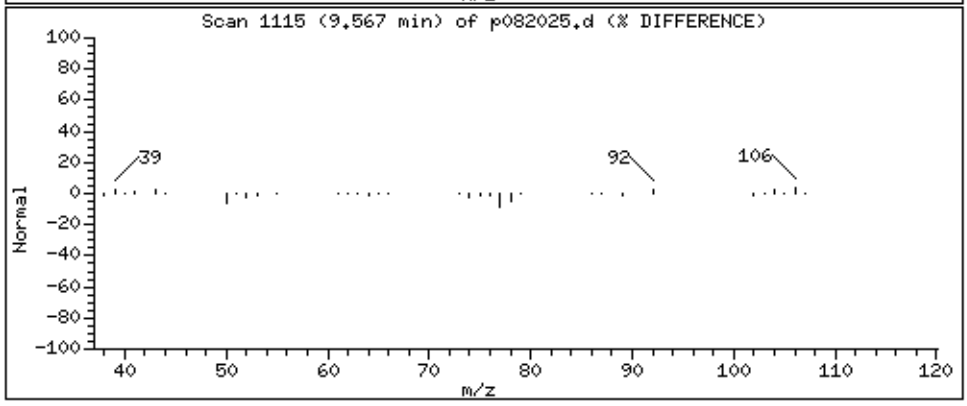












Data File: /chem/msdp.i/20AUG21.b/p082025.d

Date : 21-AUG-2021 02:14

Client ID:

Instrument: msdp.i

Sample Info: 200ml N5638

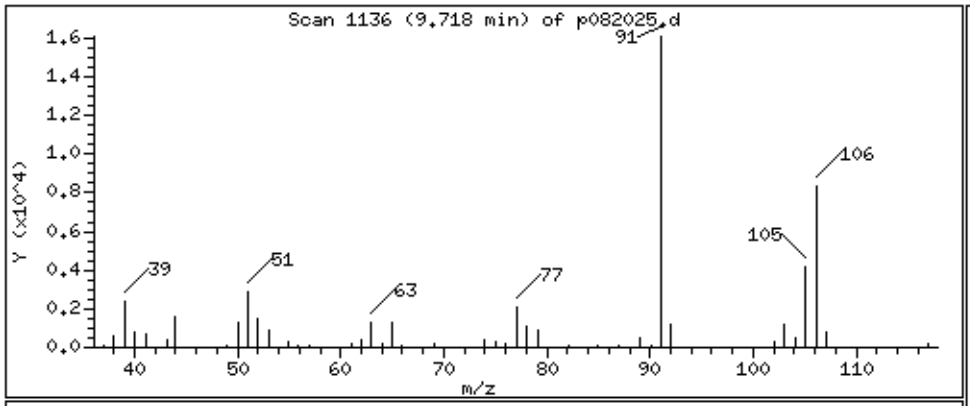
Operator: kk

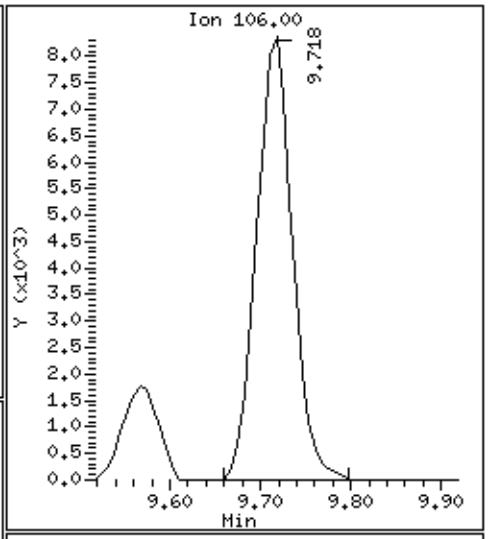
Column phase: RTX-624

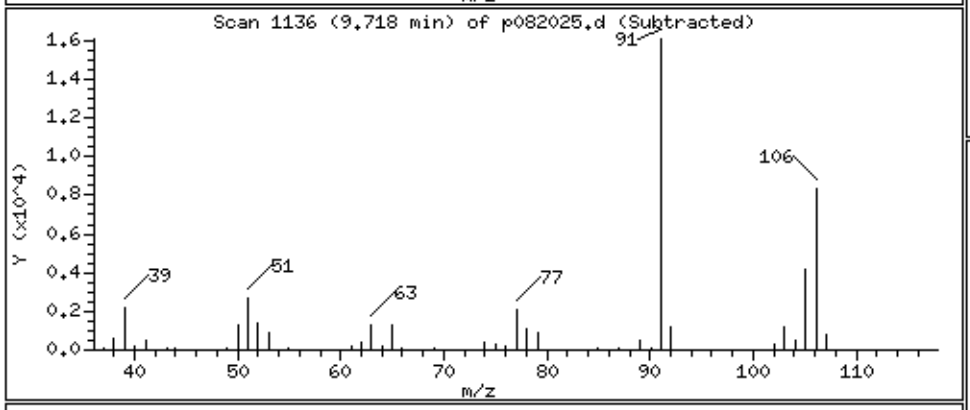
Column diameter: 0.25

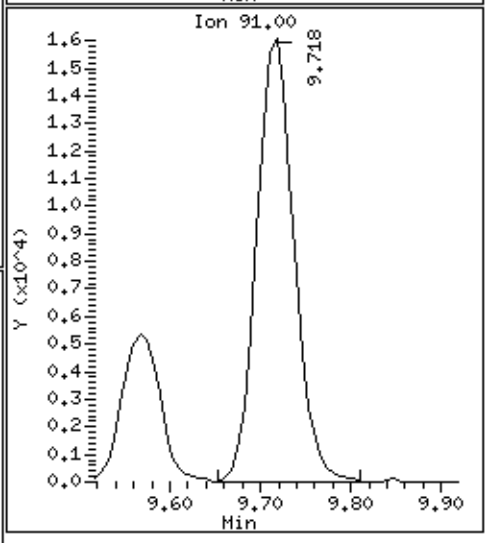
158 m,p-Xylene

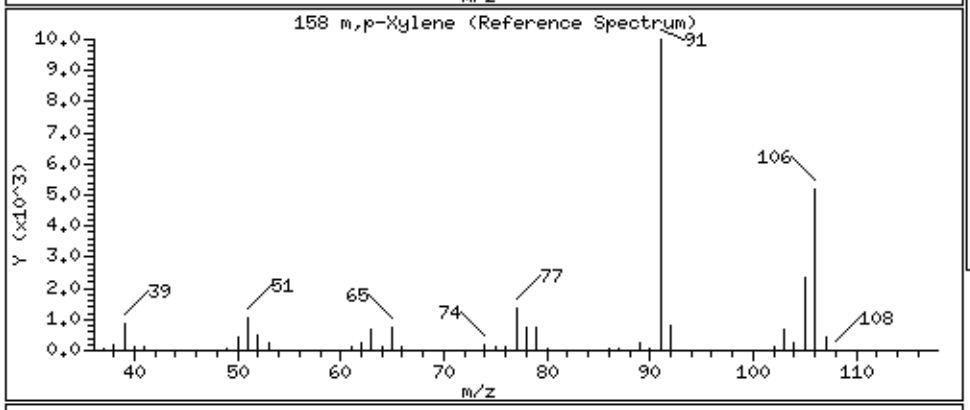
Concentration: 4.887 PPBV

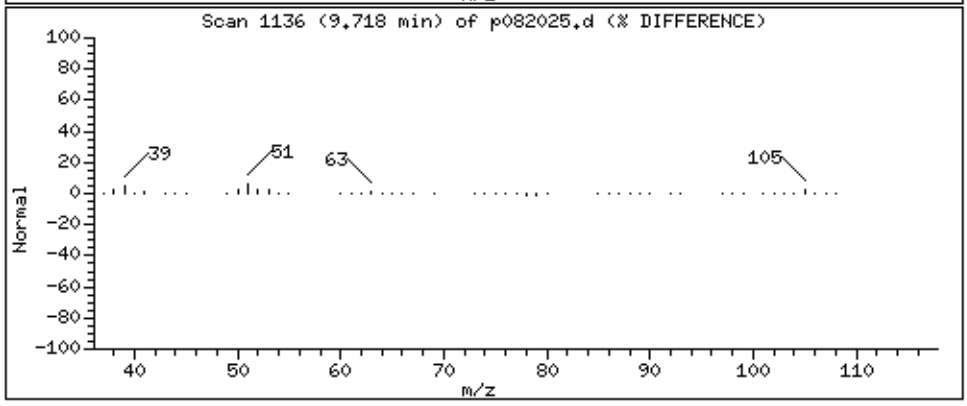












Data File: /chem/msdp.i/20AUG21.b/p082025.d

Date : 21-AUG-2021 02:14

Client ID:

Instrument: msdp.i

Sample Info: 200ml N5638

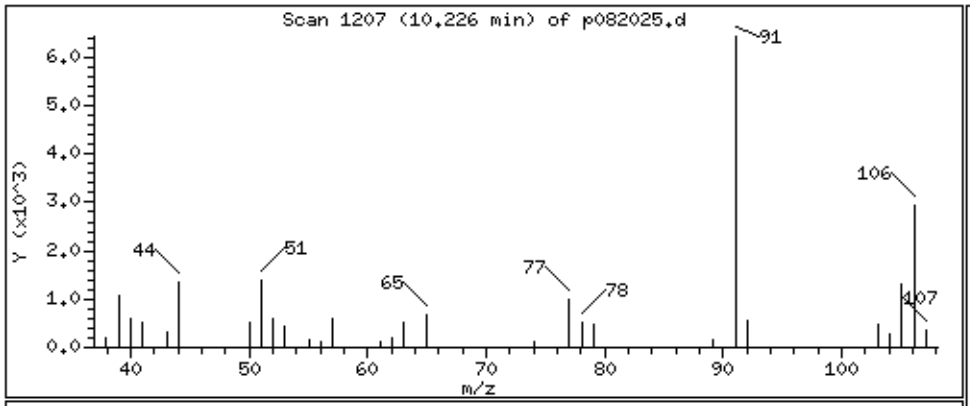
Operator: kk

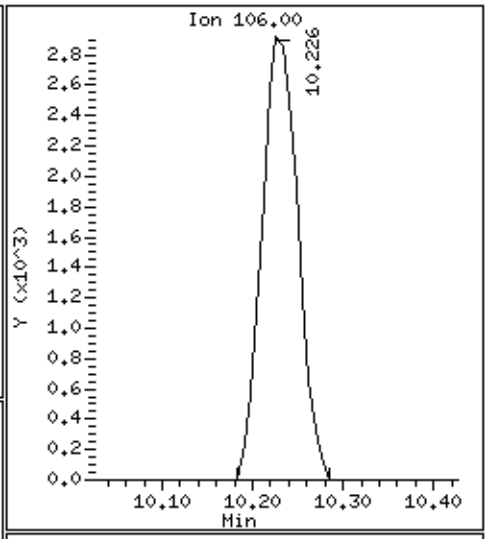
Column phase: RTX-624

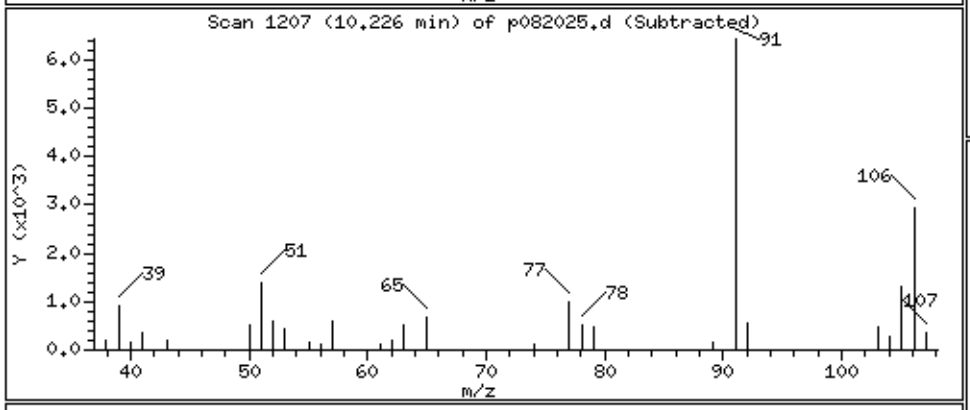
Column diameter: 0.25

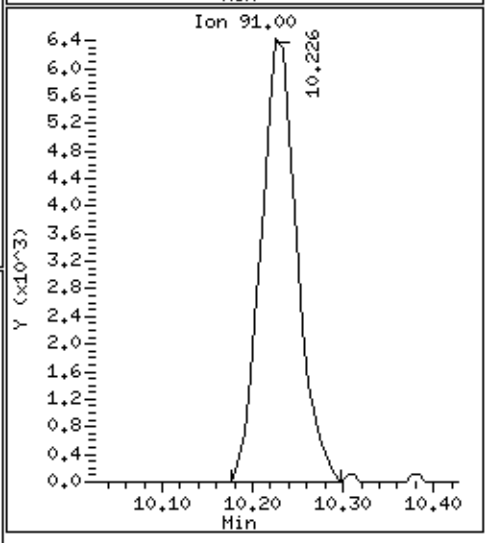
164 o-Xylene

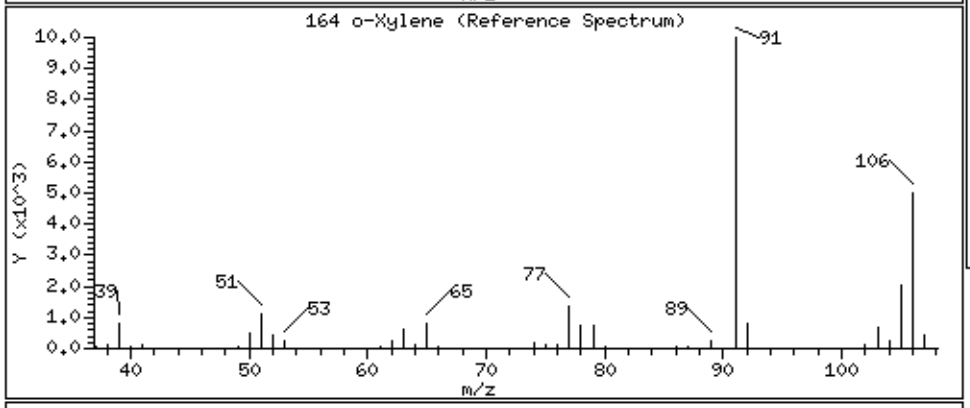
Concentration: 1.795 PPBV

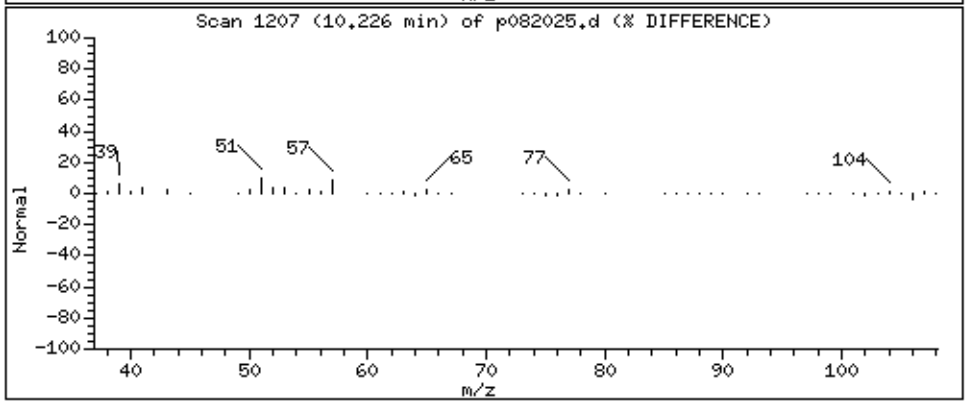












Data File: /chem/msdp.i/20AUG21.b/p082025.d

Date : 21-AUG-2021 02:14

Client ID:

Instrument: msdp.i

Sample Info: 200ml N5638

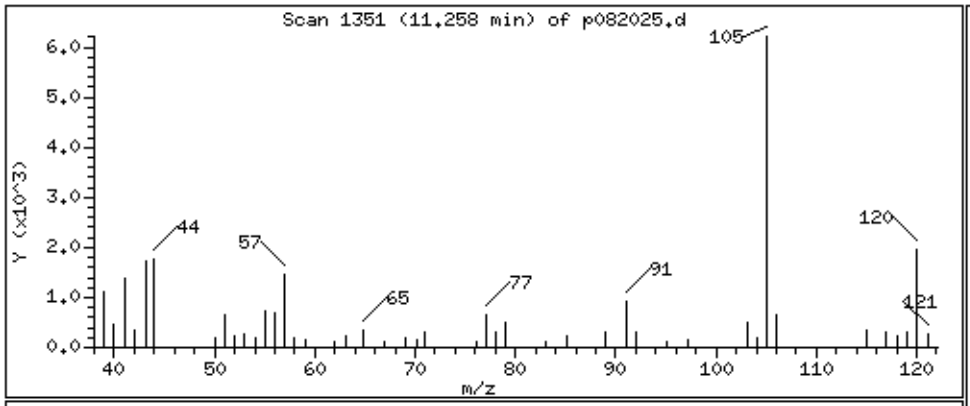
Operator: kk

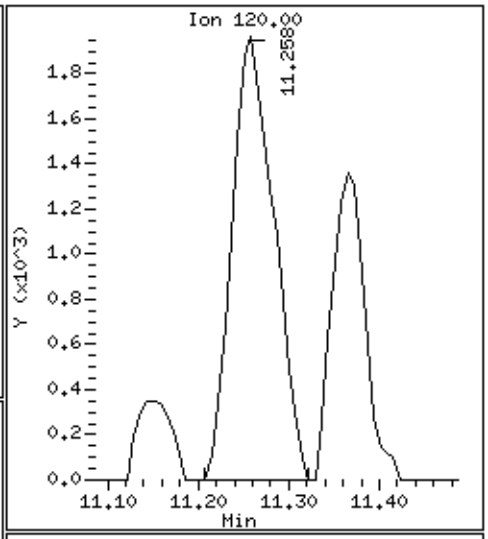
Column phase: RTX-624

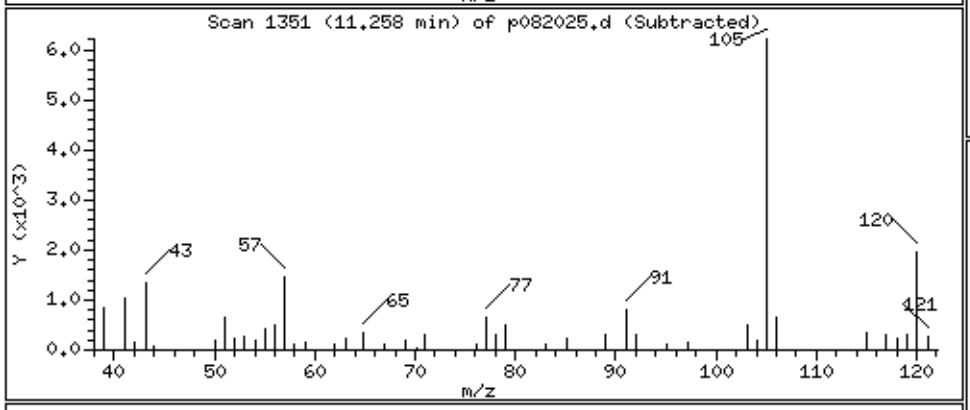
Column diameter: 0.25

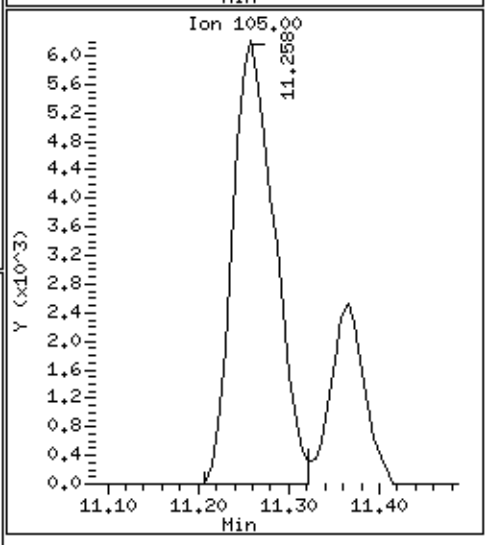
183 4-Ethyltoluene

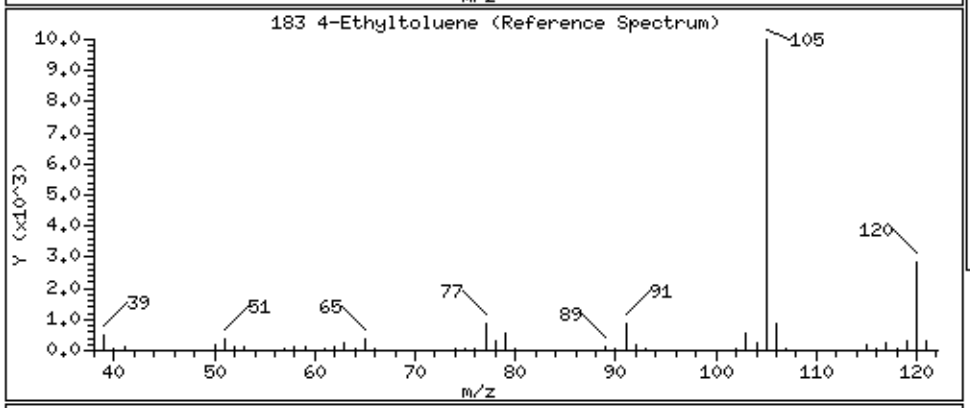
Concentration: 1.396 PPBV

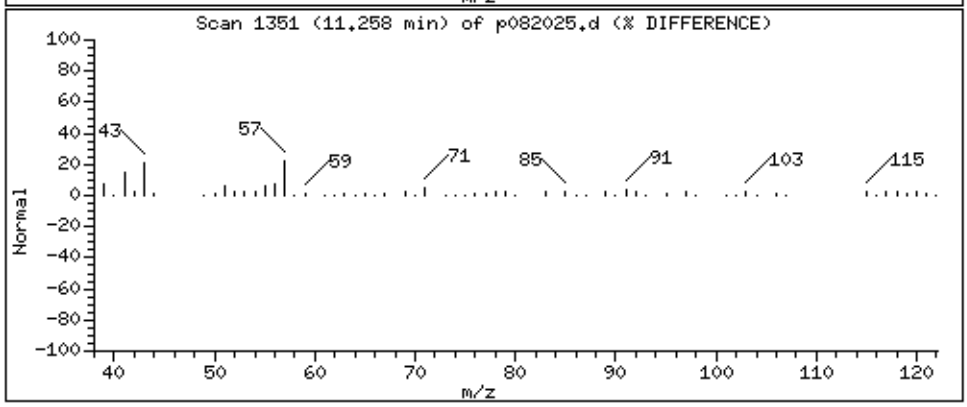












Data File: /chem/msdp.i/20AUG21.b/p082025.d

Date : 21-AUG-2021 02:14

Client ID:

Instrument: msdp.i

Sample Info: 200ml N5638

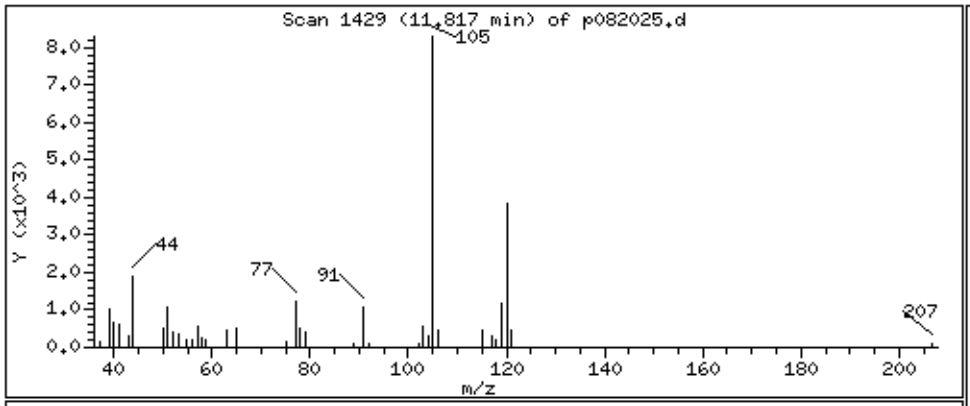
Operator: kk

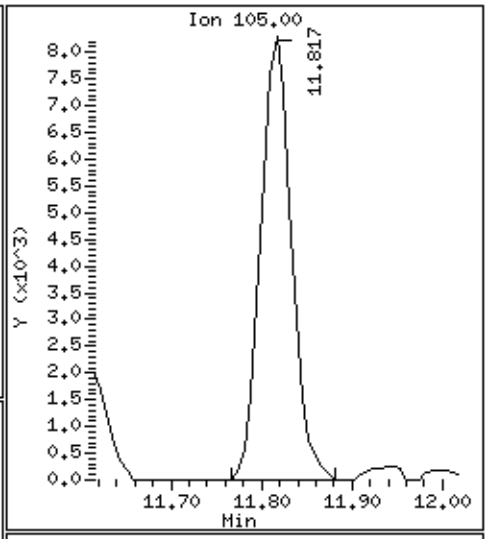
Column phase: RTX-624

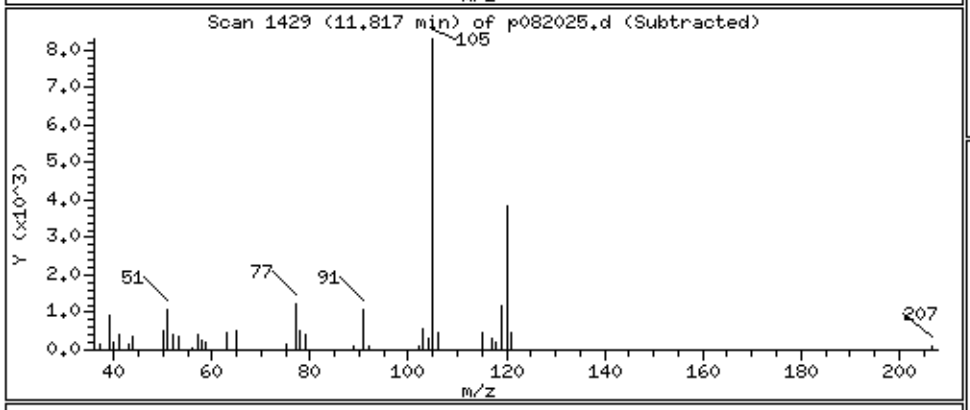
Column diameter: 0.25

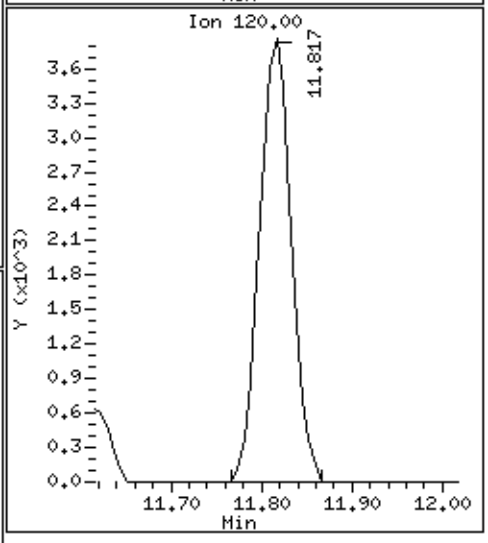
190 1,2,4-Trimethylbenzene

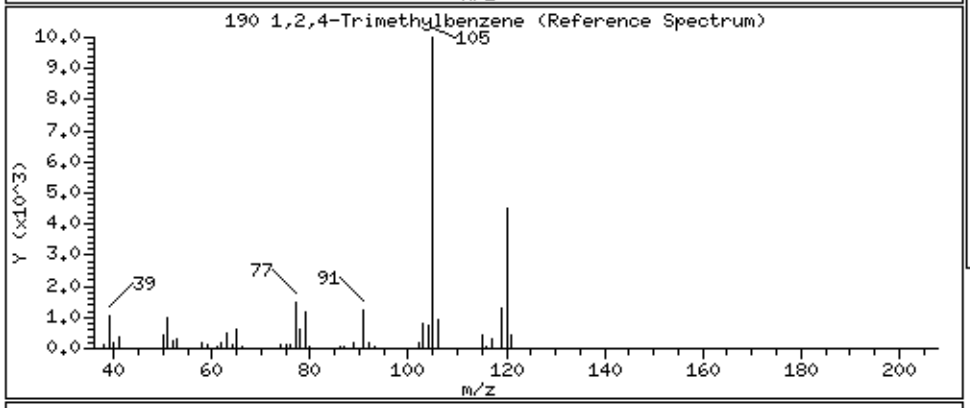
Concentration: 1.652 PPBV

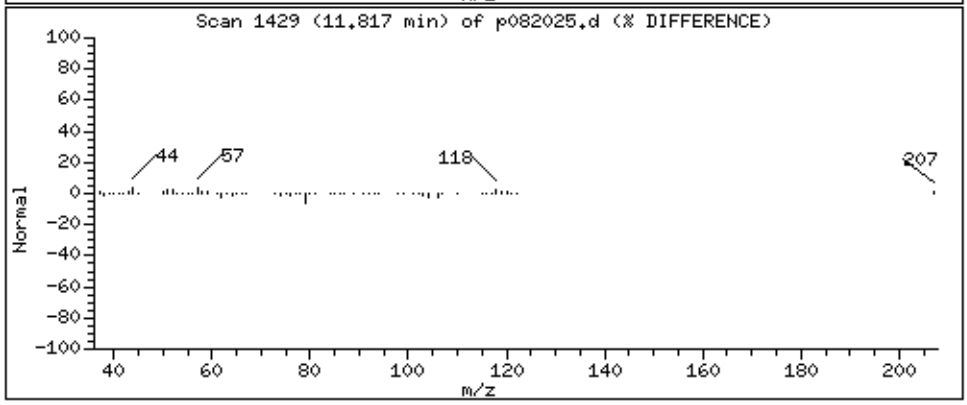












eurofins | Air Toxics

Client Sample ID: SG-VW64A-02

Lab ID#: 2108390-17A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p082027**	**Date of Collection:**	**8/17/21 9:38:00 AM**
Dil. Factor:	**2.06**	**Date of Analysis:**	**8/21/21 03:12 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1,2-Tetrachloroethane	4.1	Not Detected	28	Not Detected
1,1,1-Trichloroethane	1.0	Not Detected	5.6	Not Detected
1,1,2,2-Tetrachloroethane	1.0	Not Detected	7.1	Not Detected
1,1,2-Trichloroethane	1.0	Not Detected	5.6	Not Detected
1,1-Dichloroethane	1.0	Not Detected	4.2	Not Detected
1,1-Dichloroethene	1.0	Not Detected	4.1	Not Detected
1,1-Difluoroethane	4.1	Not Detected	11	Not Detected
1,2,3-Trichloropropane	4.1	Not Detected	25	Not Detected
1,2,4-Trichlorobenzene	4.1	Not Detected	30	Not Detected
1,2,4-Trimethylbenzene	1.0	1.3	5.1	6.4
1,2-Dibromo-3-chloropropane	4.1	Not Detected	40	Not Detected
1,2-Dibromoethane (EDB)	1.0	Not Detected	7.9	Not Detected
1,2-Dichlorobenzene	1.0	Not Detected	6.2	Not Detected
1,2-Dichloroethane	1.0	Not Detected	4.2	Not Detected
1,2-Dichloropropane	1.0	Not Detected	4.8	Not Detected
1,3,5-Trimethylbenzene	1.0	Not Detected	5.1	Not Detected
1,3-Butadiene	1.0	Not Detected	2.3	Not Detected
1,3-Dichlorobenzene	1.0	Not Detected	6.2	Not Detected
1,4-Dichlorobenzene	1.0	Not Detected	6.2	Not Detected
1,4-Dioxane	4.1	Not Detected	15	Not Detected
2,2,4-Trimethylpentane	1.0	Not Detected	4.8	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.1	Not Detected	12	Not Detected
2-Hexanone	4.1	Not Detected	17	Not Detected
2-Propanol	4.1	4.0 J	10	9.9 J
3-Chloropropene	4.1	Not Detected	13	Not Detected
4-Ethyltoluene	1.0	1.1	5.1	5.6
4-Methyl-2-pentanone	1.0	Not Detected	4.2	Not Detected
Acetone	10	Not Detected	24	Not Detected
Acrolein	4.1	Not Detected	9.4	Not Detected
Acrylonitrile	4.1	Not Detected	8.9	Not Detected
alpha-Chlorotoluene	1.0	Not Detected	5.3	Not Detected
Benzene	1.0	Not Detected	3.3	Not Detected
Bromodichloromethane	1.0	1.5	6.9	10
Bromoform	1.0	Not Detected	11	Not Detected
Bromomethane	10	Not Detected	40	Not Detected
Carbon Disulfide	4.1	Not Detected	13	Not Detected
Carbon Tetrachloride	1.0	Not Detected	6.5	Not Detected
Chlorobenzene	1.0	Not Detected	4.7	Not Detected
Chloroethane	4.1	Not Detected	11	Not Detected
Chloroform	1.0	46	5.0	220
Chloromethane	10	Not Detected	21	Not Detected
cis-1,2-Dichloroethene	1.0	Not Detected	4.1	Not Detected

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Client Sample ID: SG-VW64A-02

Lab ID#: 2108390-17A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p082027**	**Date of Collection:**	**8/17/21 9:38:00 AM**
Dil. Factor:	**2.06**	**Date of Analysis:**	**8/21/21 03:12 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,3-Dichloropropene	1.0	Not Detected	4.7	Not Detected
Cumene	1.0	Not Detected	5.1	Not Detected
Cyclohexane	1.0	Not Detected	3.5	Not Detected
Dibromochloromethane	1.0	Not Detected	8.8	Not Detected
Dibromomethane	4.1	Not Detected	29	Not Detected
Ethanol	10	10	19	20
Ethyl Acetate	4.1	Not Detected	15	Not Detected
Ethyl Benzene	1.0	1.3	4.5	5.8
Ethyl-tert-butyl ether	4.1	Not Detected	17	Not Detected
Freon 11	1.0	Not Detected	5.8	Not Detected
Freon 12	1.0	2.4	5.1	12
Freon 113	1.0	Not Detected	7.9	Not Detected
Freon 114	1.0	Not Detected	7.2	Not Detected
Freon 134a	4.1	Not Detected	17	Not Detected
Heptane	1.0	Not Detected	4.2	Not Detected
Hexachlorobutadiene	4.1	Not Detected	44	Not Detected
Hexachloroethane	4.1	Not Detected	40	Not Detected
Hexane	1.0	48	3.6	170
Iodomethane	10	Not Detected	60	Not Detected
Isopropyl ether	4.1	Not Detected	17	Not Detected
m,p-Xylene	1.0	4.1	4.5	18
Methyl tert-butyl ether	4.1	Not Detected	15	Not Detected
Methylene Chloride	10	Not Detected	36	Not Detected
Naphthalene	2.1	Not Detected	11	Not Detected
o-Xylene	1.0	1.7	4.5	7.4
Propylbenzene	1.0	Not Detected	5.1	Not Detected
Propylene	4.1	Not Detected	7.1	Not Detected
Styrene	1.0	Not Detected	4.4	Not Detected
tert-Amyl methyl ether	4.1	Not Detected	17	Not Detected
tert-Butyl alcohol	4.1	Not Detected	12	Not Detected
Tetrachloroethene	1.0	45	7.0	300
Tetrahydrofuran	1.0	Not Detected	3.0	Not Detected
Toluene	1.0	4.2	3.9	16
TPH ref. to Gasoline (MW=100)	100	140	420	570
trans-1,2-Dichloroethene	1.0	Not Detected	4.1	Not Detected
trans-1,3-Dichloropropene	1.0	Not Detected	4.7	Not Detected
Trichloroethene	1.0	Not Detected	5.5	Not Detected
Vinyl Acetate	4.1	Not Detected	14	Not Detected
Vinyl Bromide	4.1	Not Detected	18	Not Detected
Vinyl Chloride	1.0	Not Detected	2.6	Not Detected

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Client Sample ID: SG-VW64A-02

Lab ID#: 2108390-17A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p082027**	**Date of Collection: 8/17/21 9:38:00 AM**
Dil. Factor:	**2.06**	**Date of Analysis: 8/21/21 03:12 AM**

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	108	70-130
4-Bromofluorobenzene	104	70-130

US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/20AUG21.b/p082027.d
Lab Smp Id: 2108390-17A
Inj Date : 21-AUG-2021 03:12
Operator : kk Inst ID: msdp.i
Smp Info : 200ml 1L1678
Misc Info : 5.5 Hg->10 psi
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/20AUG21.b/p21q0519a.m
Meth Date : 20-Aug-2021 12:59 p5fl Quant Type: ISTD
Cal Date : 19-MAY-2021 19:45 Cal File: p051915.d
Als bottle: 9
Dil Factor: 2.06000
Integrator: HP RTE Compound Sublist: AEC25677.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

	RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
*	90 Bromochloromethane					CAS #: 74-97-5		
	5.785	5.785 (1.000)	130	106780	25.0000		80.00- 120.00	100.00
	5.778	5.785 (1.000)	128	80388			48.23- 108.23	75.28
	5.778	5.778 (1.000)	49	265366			150.57- 210.57	248.52
*	108 1,4-Difluorobenzene					CAS #: 540-36-3		
	6.659	6.659 (1.000)	114	371484	25.0000		80.00- 120.00	100.00
	6.659	6.659 (1.000)	88	53128			0.00- 45.71	14.30
*	153 Chlorobenzene-d5					CAS #: 3114-55-4		
	9.460	9.460 (1.000)	117	386757	25.0000		80.00- 120.00	100.00
	9.460	9.460 (1.000)	82	197611			23.78- 83.78	51.09
$	104 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
	6.308	6.315 (1.090)	65	158927	26.9692	26.969	80.00- 120.00	100.00
	6.308	6.315 (1.090)	67	73470			27.21- 87.21	46.23
$	134 Toluene-d8					CAS #: 2037-26-5		
	7.891	7.891 (1.185)	98	401062	24.8624	24.862	80.00- 120.00	100.00
	7.891	7.891 (1.185)	70	44075			0.00- 40.44	10.99

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 134 Toluene-d8 (continued)							
7.891	7.891 (1.185)	100	265942			34.95- 94.95	66.31
$ 170 4-Bromofluorobenzene					CAS #: 460-00-4		
10.921	10.921 (1.154)	174	258069	25.9850	25.985	80.00- 120.00	100.00
10.921	10.914 (1.154)	95	301878			95.92- 155.92	116.98
10.921	10.921 (1.154)	176	246116			66.89- 126.89	95.37
8 Freon 12					CAS #: 75-71-8		
1.703	1.717 (0.294)	85	11293	1.17918	2.429	80.00- 120.00	100.00
1.703	1.717 (0.294)	87	3306			2.37- 62.37	29.28
39 Ethanol					CAS #: 64-17-5		
3.250	3.242 (0.562)	46	5334	5.03716	10.376	80.00- 120.00	100.00
3.242	3.285 (0.560)	45	13607			511.19- 571.19	255.09
52 2-Propanol					CAS #: 67-63-0		
3.894	3.894 (0.673)	45	22139	1.96228	4.042	80.00- 120.00	100.00(a)
3.887	3.894 (0.672)	43	5189			0.00- 47.19	23.44
67 Hexane					CAS #: 110-54-3		
4.689	4.697 (0.811)	57	245944	23.3808	48.164	80.00- 120.00	100.00
4.689	4.697 (0.811)	43	199099			37.52- 97.52	80.95
4.689	4.697 (0.811)	86	24487			0.00- 41.48	9.96
92 Chloroform					CAS #: 67-66-3		
5.835	5.843 (1.009)	83	206959	22.2760	45.888	80.00- 120.00	100.00
5.835	5.843 (1.009)	85	132565			34.70- 94.70	64.05
122 Bromodichloromethane					CAS #: 75-27-4		
7.318	7.318 (1.099)	83	6827	0.74020	1.525	80.00- 120.00	100.00
7.318	7.318 (1.099)	85	4308			35.24- 95.24	63.11
137 Toluene					CAS #: 108-88-3		
7.949	7.956 (1.194)	91	34348	2.03086	4.184	80.00- 120.00	100.00
7.956	7.956 (1.195)	92	18442			28.38- 88.38	53.69
142 Tetrachloroethene					CAS #: 127-18-4		
8.464	8.464 (0.895)	166	191621	21.7393	44.783	80.00- 120.00	100.00
8.464	8.464 (0.895)	129	147608			47.84- 107.84	77.03
8.464	8.464 (0.895)	131	141229			45.29- 105.29	73.70
155 Ethyl Benzene					CAS #: 100-41-4		
9.567	9.567 (1.011)	106	5187	0.64592	1.330	80.00- 120.00	100.00
9.567	9.567 (1.011)	91	14455			273.74- 333.74	278.65

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
158 m,p-Xylene					CAS #: 108-38-3		
9.718	9.718 (1.027)	106	20043	1.99281	4.105	80.00- 120.00	100.00
9.711	9.718 (1.026)	91	37473			163.73- 223.73	186.96
164 o-Xylene					CAS #: 95-47-6		
10.226	10.226 (1.081)	106	7926	0.82251	1.694	80.00- 120.00	100.00
10.226	10.226 (1.081)	91	16211			177.45- 237.45	204.52
183 4-Ethyltoluene					CAS #: 622-96-8		
11.265	11.287 (1.191)	120	5349	0.54799	1.129	80.00- 120.00	100.00
11.258	11.287 (1.190)	105	15683			284.55- 344.55	293.17
190 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
11.817	11.817 (1.249)	105	16106	0.63494	1.308	80.00- 120.00	100.00
11.817	11.817 (1.249)	120	6953			19.05- 79.05	43.17

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p082027.d
Lab Smp Id: 2108390-17A
Analysis Type: VOA
Quant Type: ISTD
Operator: kk
Method File: /chem/msdp.i/20AUG21.b/p21q0519a.m
Misc Info: 5.5 Hg->10 psi

Calibration Date: 20-AUG-2021
Calibration Time: 11:13
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	109375	65625	153125	106780	-2.37
108 1,4-Difluorobenze	406799	244079	569519	371484	-8.68
153 Chlorobenzene-d5	400841	240505	561177	386757	-3.51

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.79	5.46	6.12	5.79	-0.00
108 1,4-Difluorobenze	6.66	6.33	6.99	6.66	-0.00
153 Chlorobenzene-d5	9.46	9.13	9.79	9.46	-0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 24-Aug-2021 11:54

US32TAR1

RECOVERY REPORT

Client Name: Client SDG: 20AUG21
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 2108390-17A
Level: LOW Operator: kk
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT20_new.spk Quant Type: ISTD
Sublist File: AEC25677.sub
Method File: /chem/msdp.i/20AUG21.b/p21q0519a.m
Misc Info: 5.5 Hg->10 psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 104 1,2-Dichloroethan	25.000	26.969	107.88	70-130
$ 134 Toluene-d8	25.000	24.862	99.45	70-130
$ 170 4-Bromofluorobenz	25.000	25.985	103.94	70-130

Data File: /chem/msdp.i/20AUG21.b/p082027.d

Date : 21-AUG-2021 03:12

Client ID:

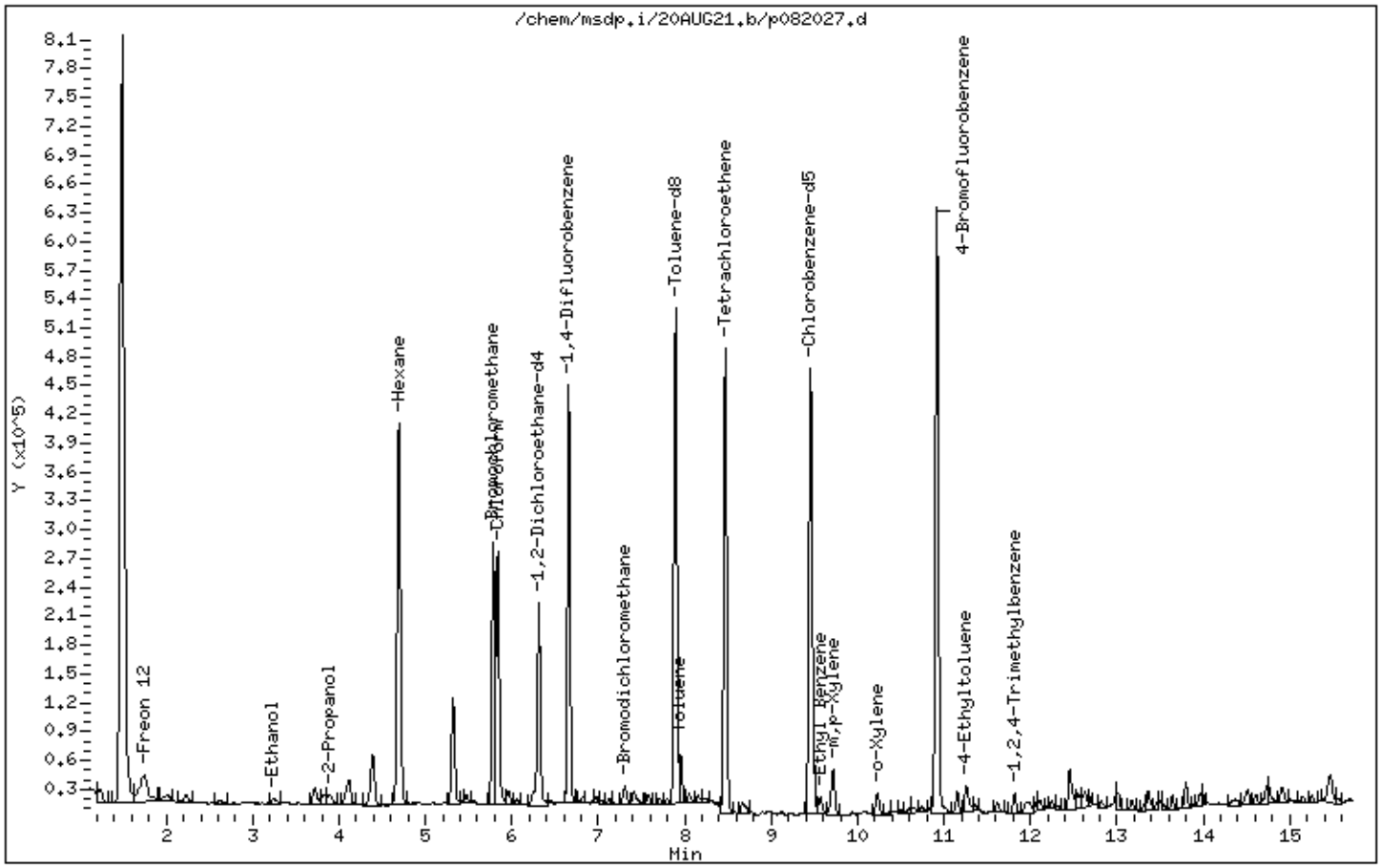
Instrument: msdp.i

Sample Info: 200ml 1L1678

Operator: kk

Column phase: RTX-624

Column diameter: 0.25



Data File: /chem/msdp.i/20AUG21.b/p082027.d

Date : 21-AUG-2021 03:12

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1L1678

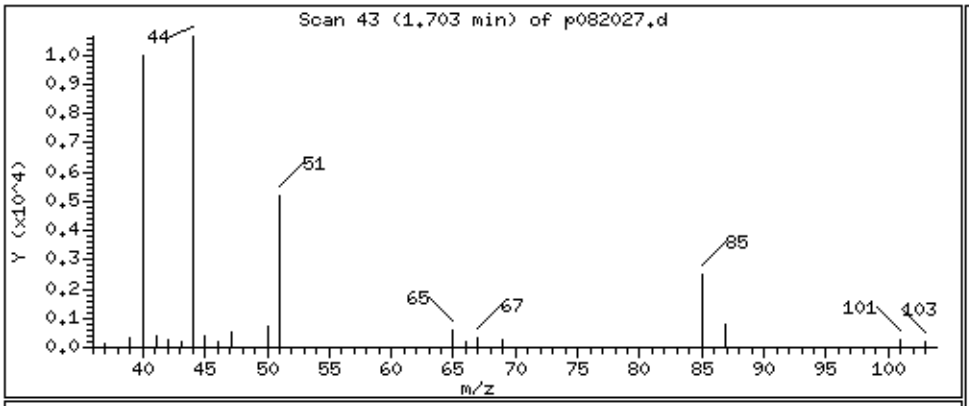
Operator: kk

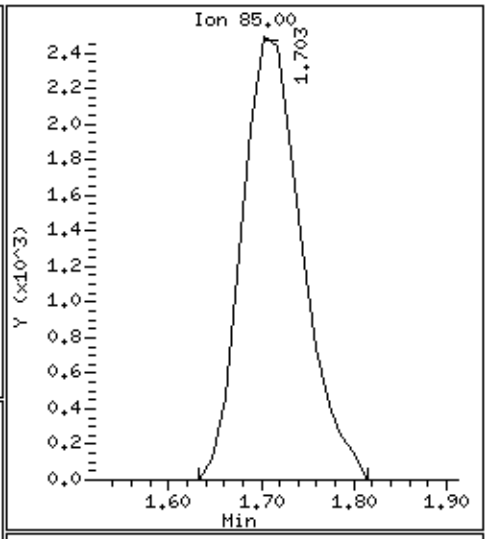
Column phase: RTX-624

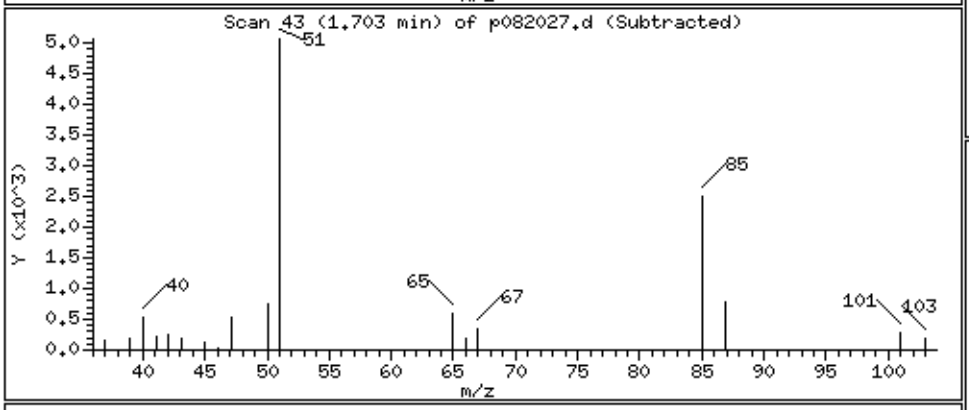
Column diameter: 0.25

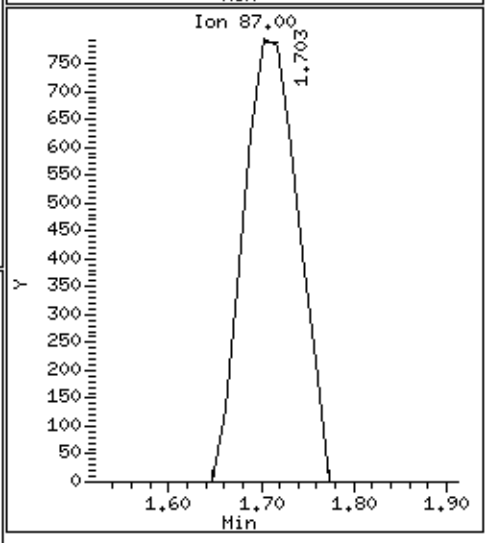
8 Freon 12

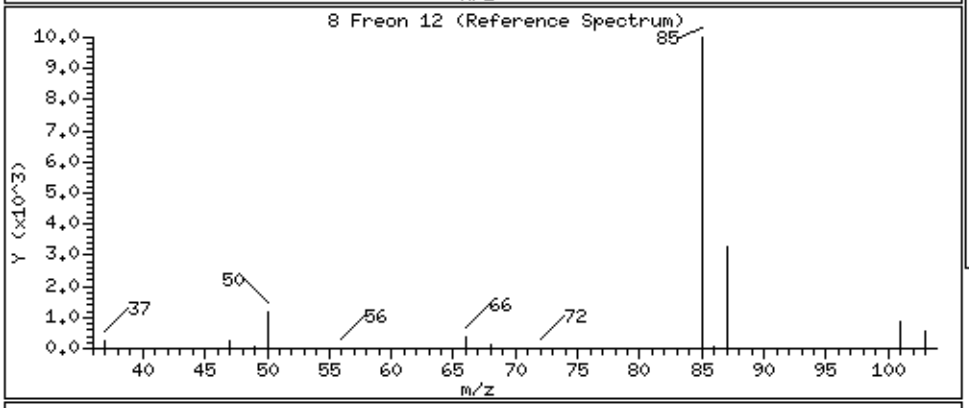
Concentration: 2.429 PPBV

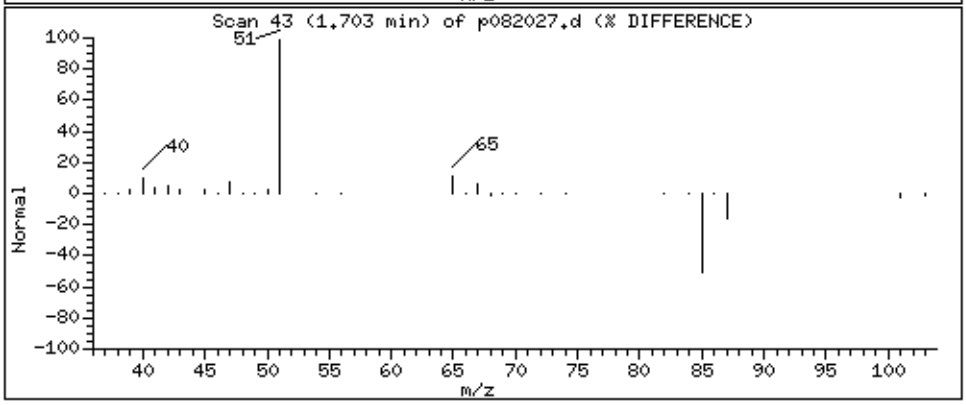












Data File: /chem/msdp.i/20AUG21.b/p082027.d

Date : 21-AUG-2021 03:12

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1L1678

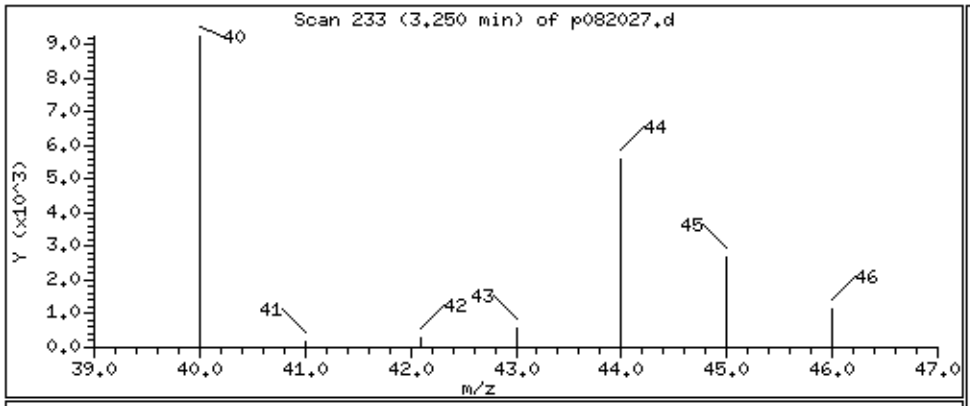
Operator: kk

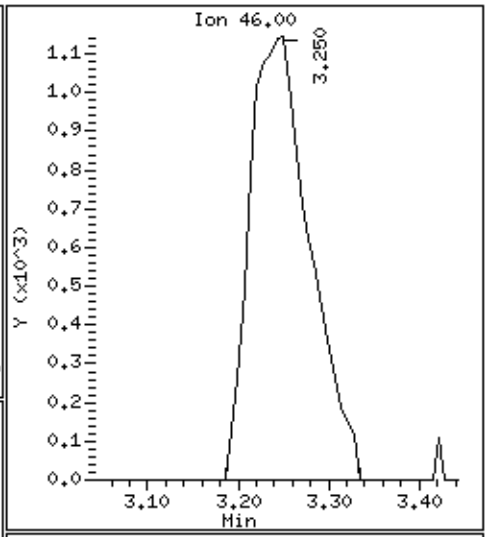
Column phase: RTX-624

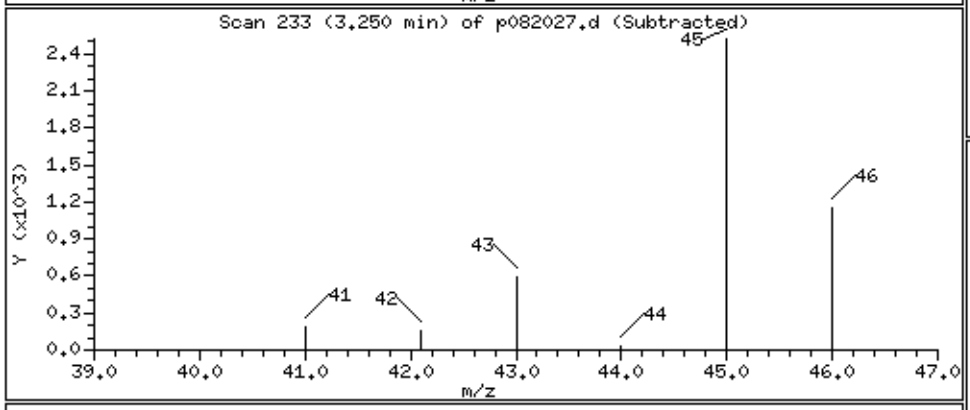
Column diameter: 0.25

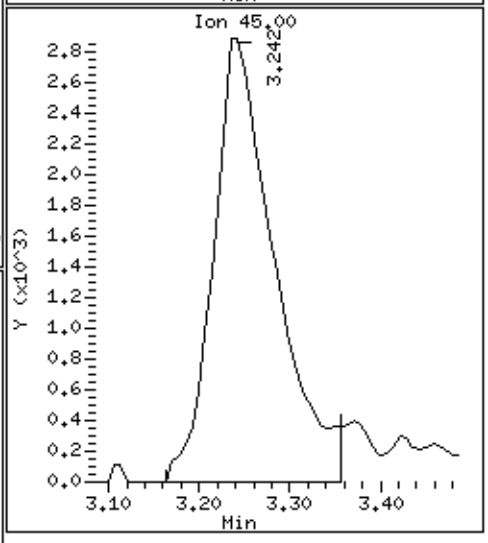
39 Ethanol

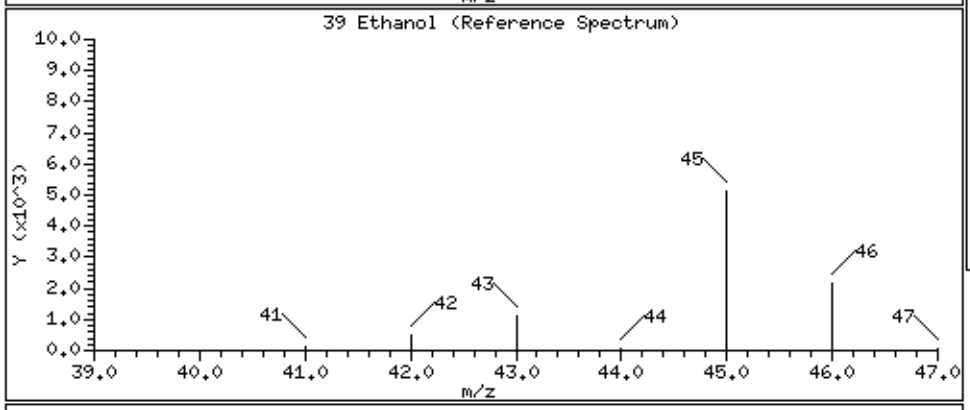
Concentration: 10.376 PPBV

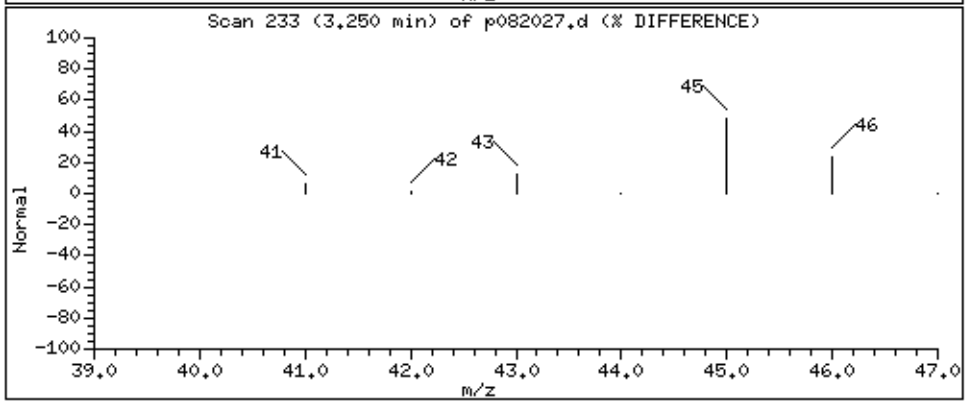












Data File: /chem/msdp.i/20AUG21.b/p082027.d

Date : 21-AUG-2021 03:12

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1L1678

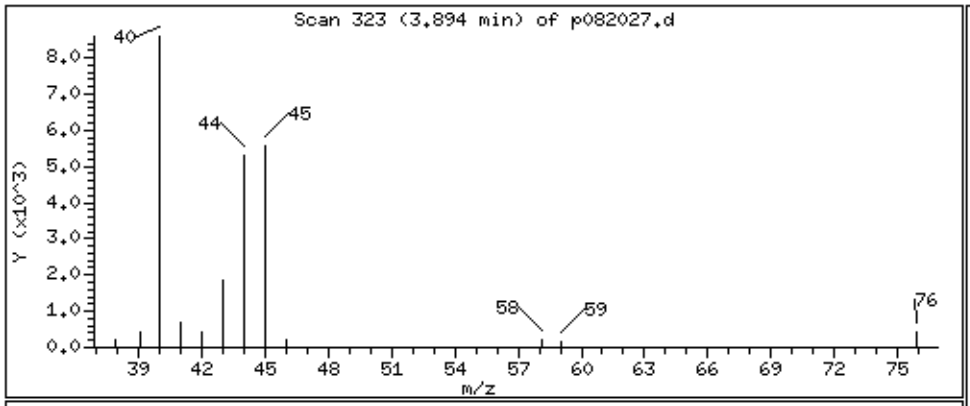
Operator: kk

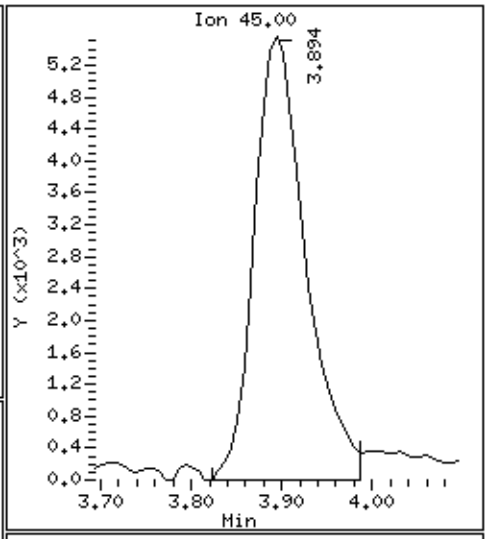
Column phase: RTX-624

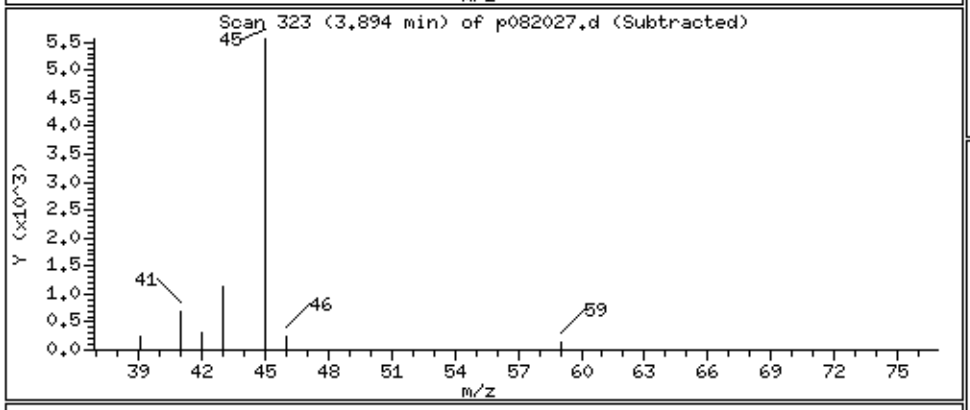
Column diameter: 0.25

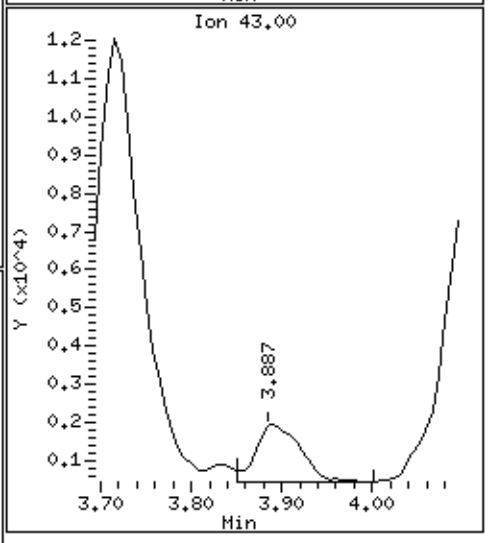
52 2-Propanol

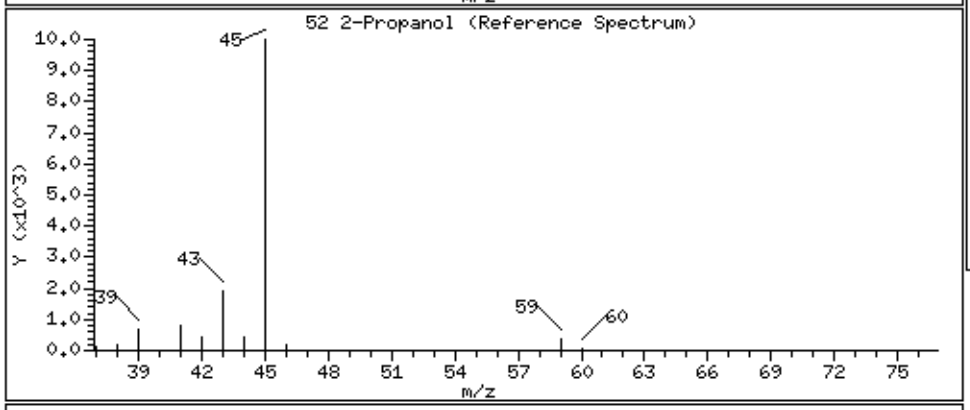
Concentration: 4.042 PPBV

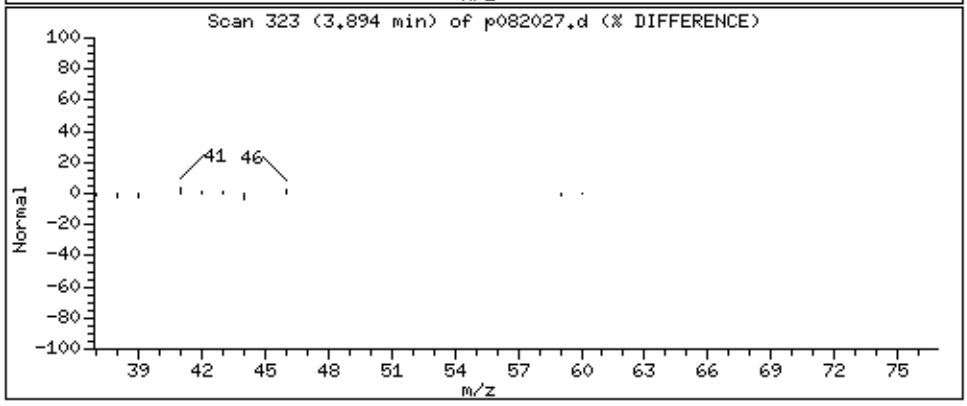












Data File: /chem/msdp.i/20AUG21.b/p082027.d

Date : 21-AUG-2021 03:12

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1L1678

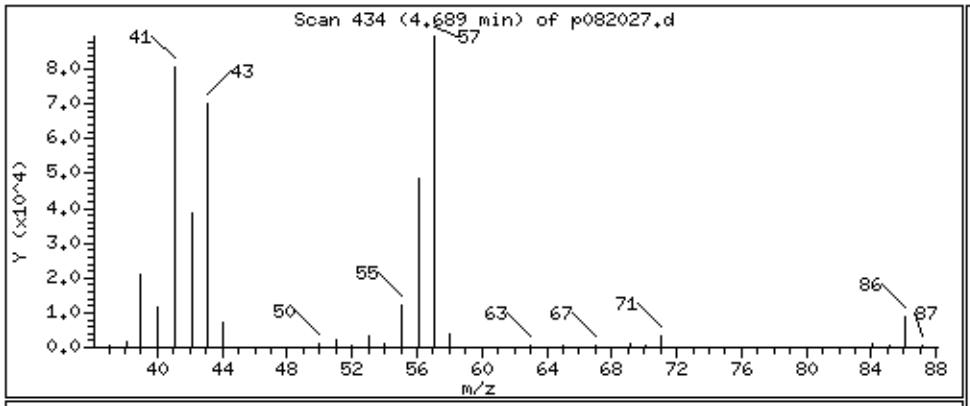
Operator: kk

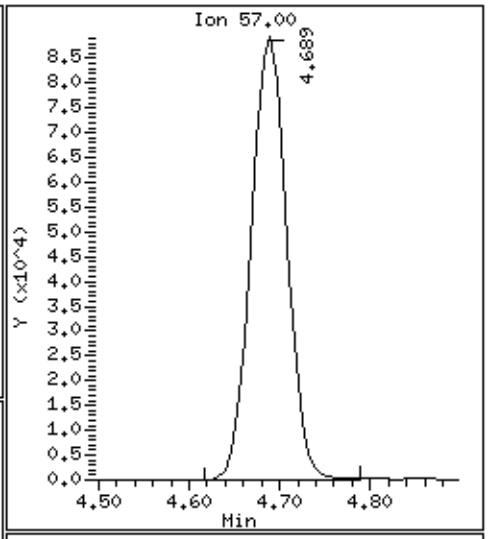
Column phase: RTX-624

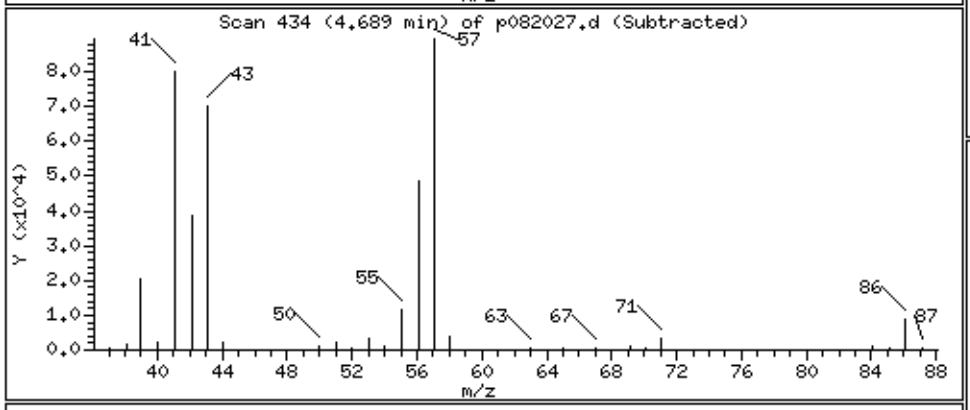
Column diameter: 0.25

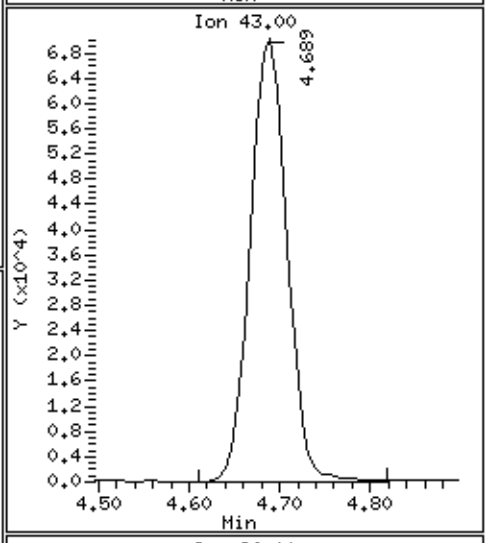
67 Hexane

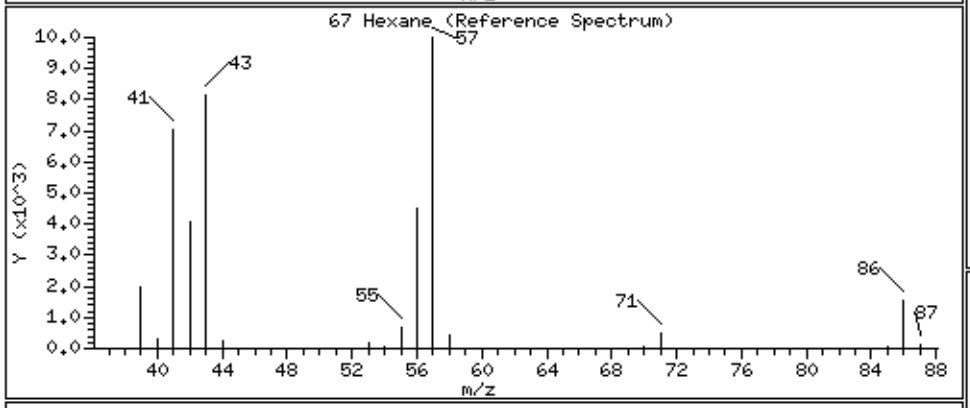
Concentration: 48.164 PPBV

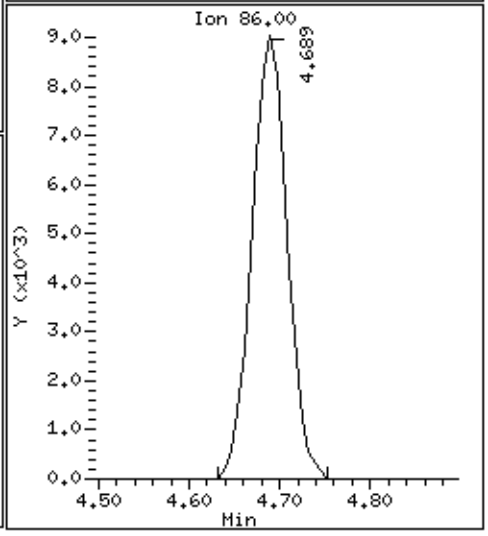


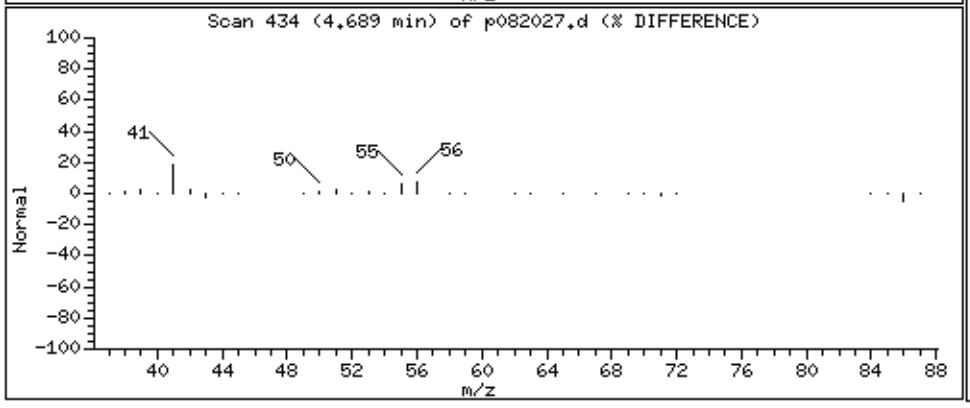












Data File: /chem/msdp.i/20AUG21.b/p082027.d

Date : 21-AUG-2021 03:12

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1L1678

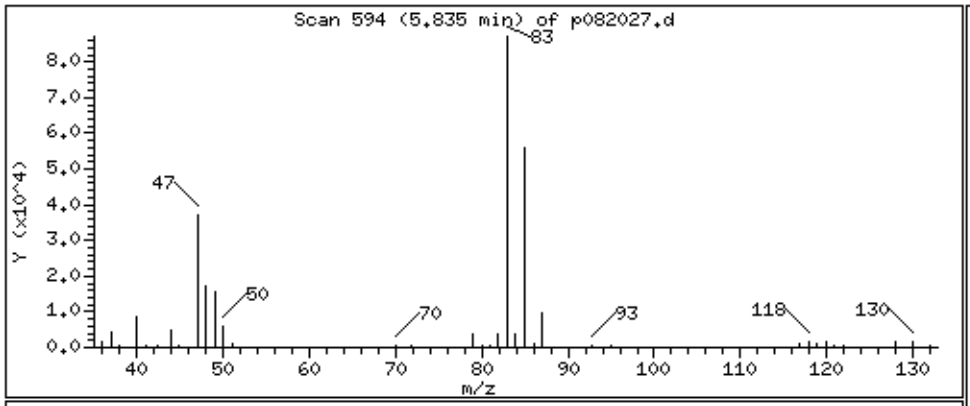
Operator: kk

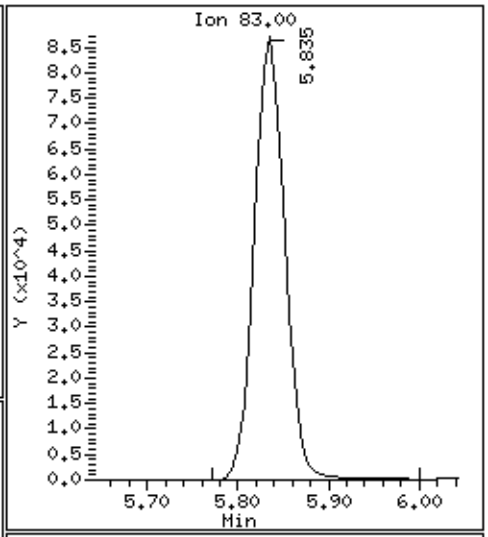
Column phase: RTX-624

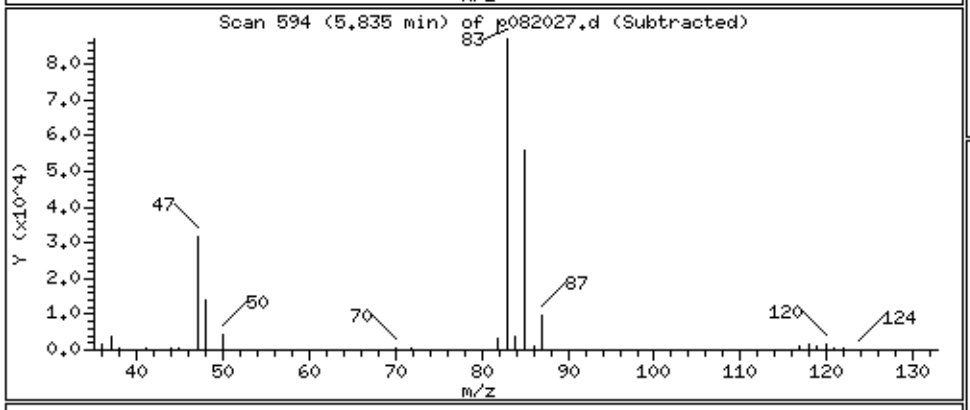
Column diameter: 0.25

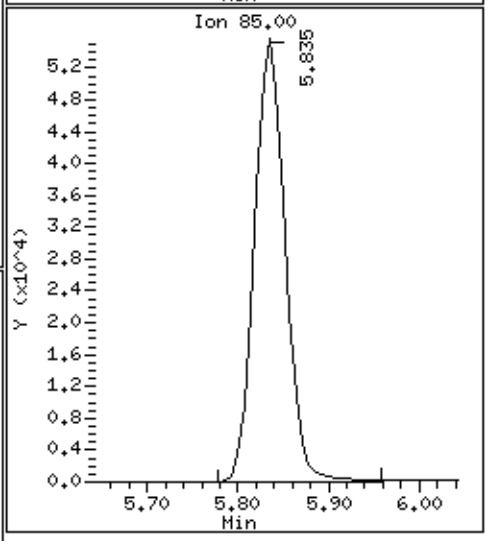
92 Chloroform

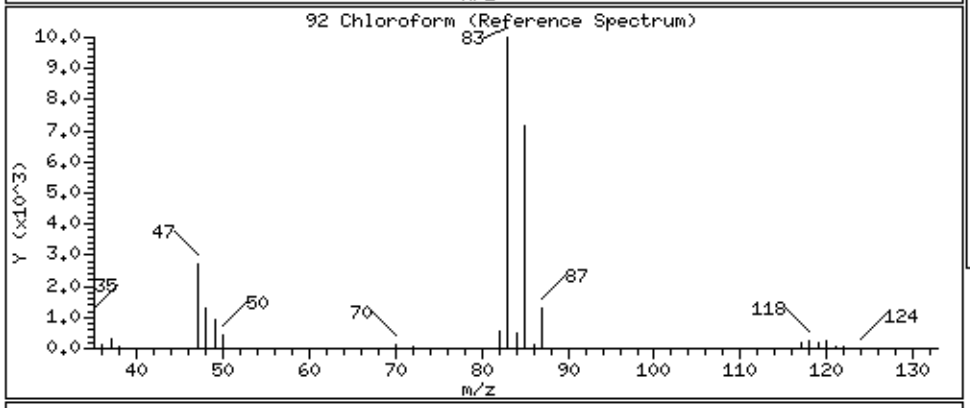
Concentration: 45.888 PPBV

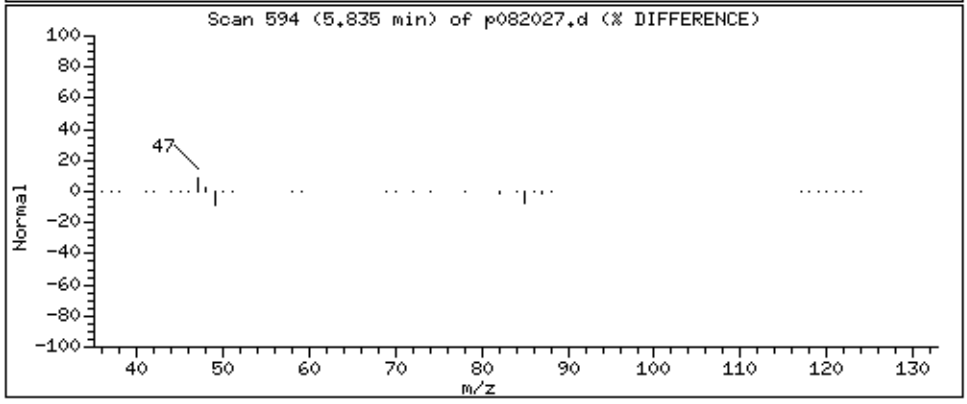












Data File: /chem/msdp.i/20AUG21.b/p082027.d

Date : 21-AUG-2021 03:12

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1L1678

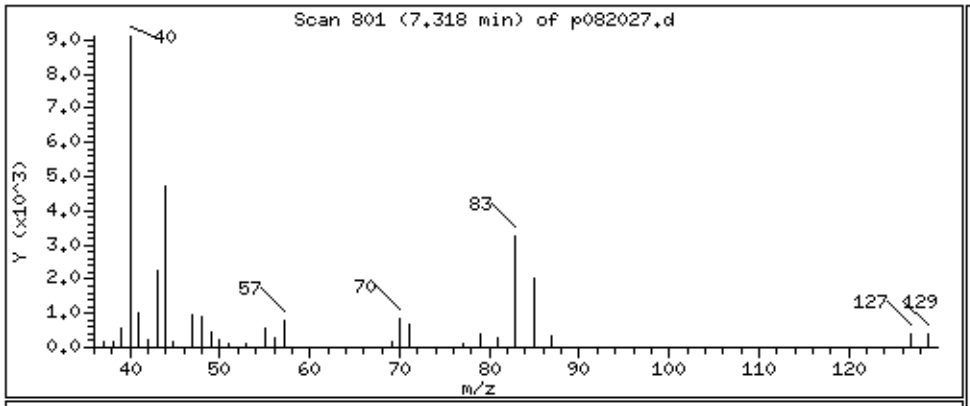
Operator: kk

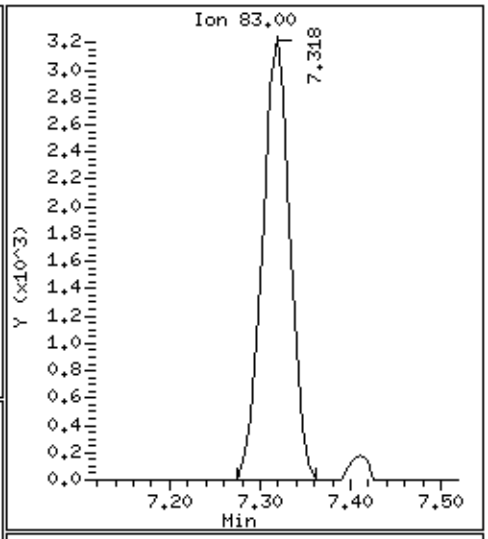
Column phase: RTX-624

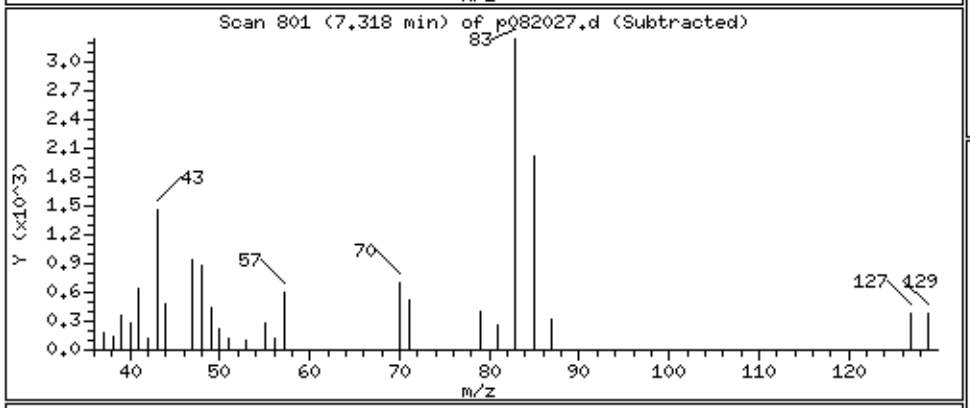
Column diameter: 0.25

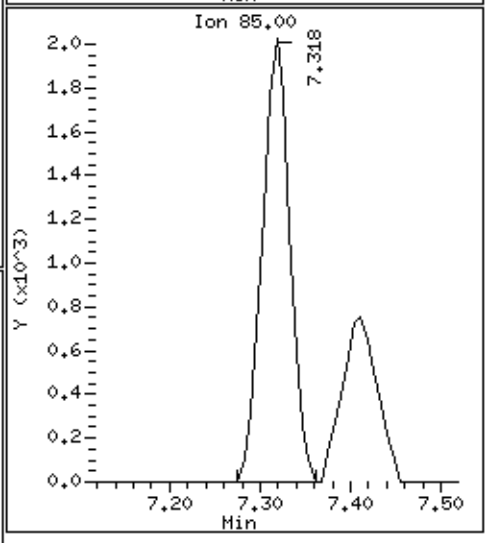
122 Bromodichloromethane

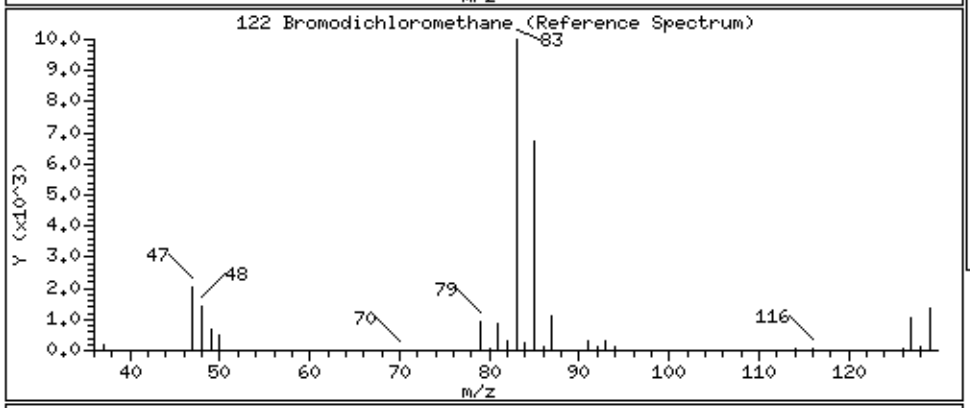
Concentration: 1.525 PPBV

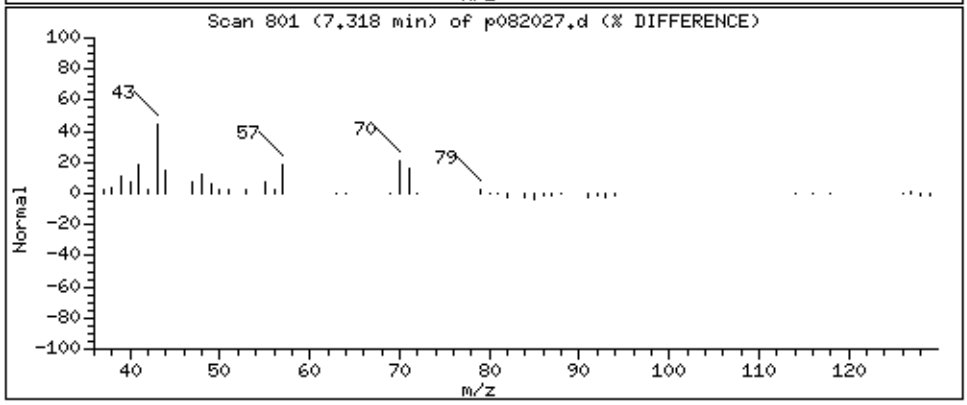












Data File: /chem/msdp.i/20AUG21.b/p082027.d

Date : 21-AUG-2021 03:12

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1L1678

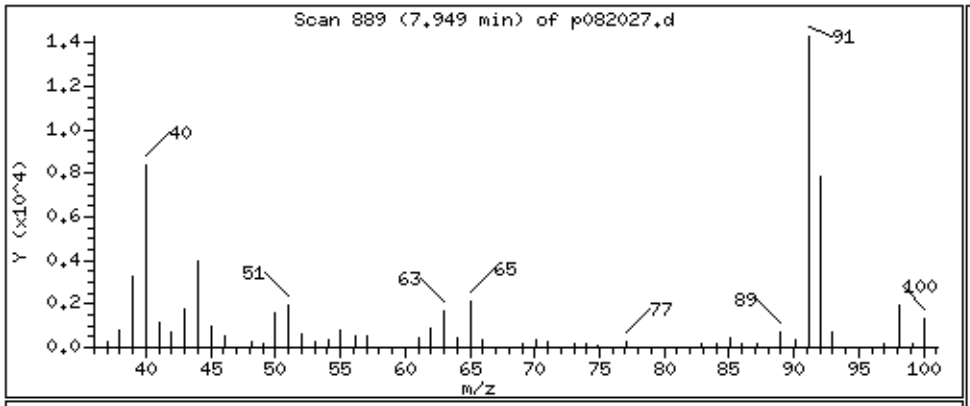
Operator: kk

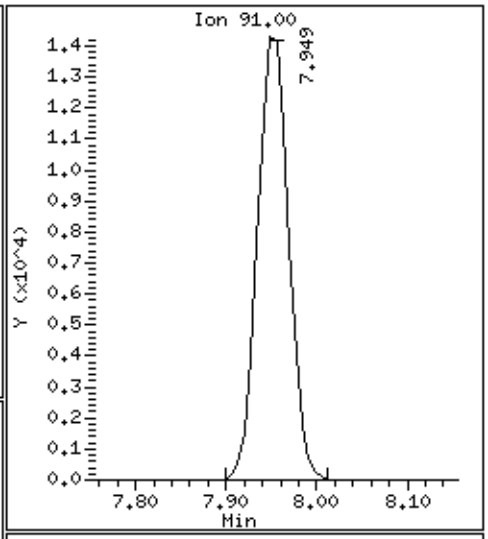
Column phase: RTX-624

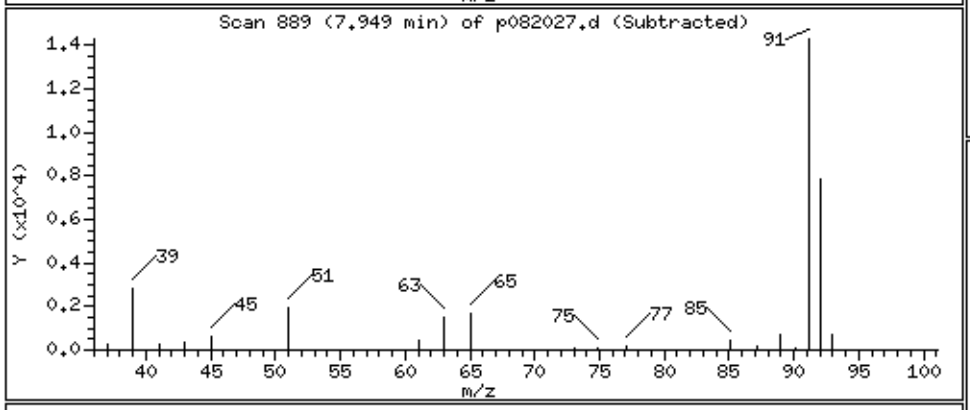
Column diameter: 0.25

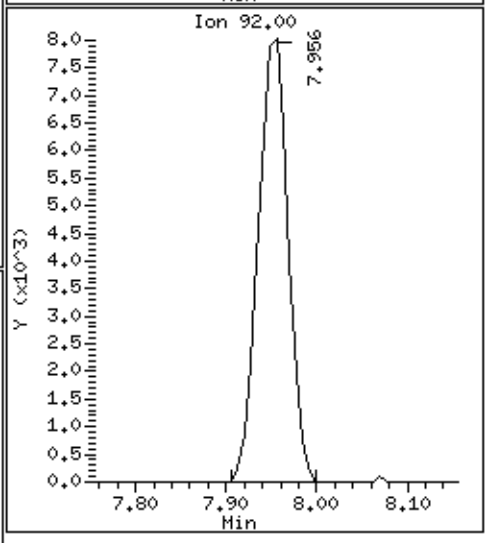
137 Toluene

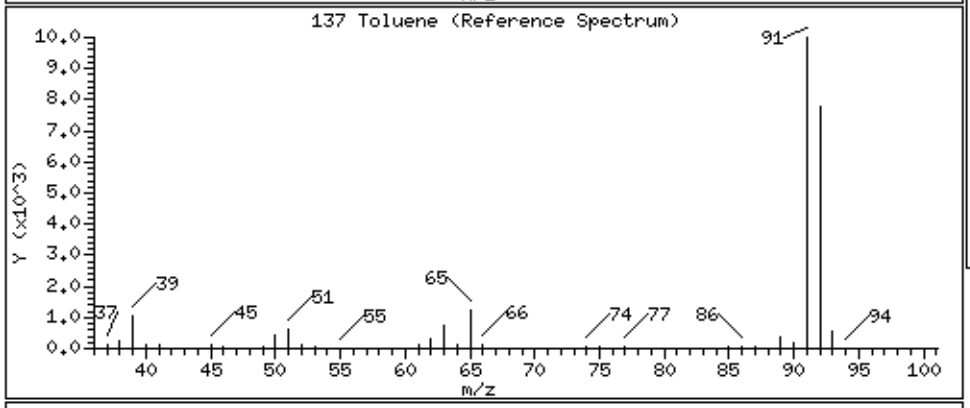
Concentration: 4.184 PPBV

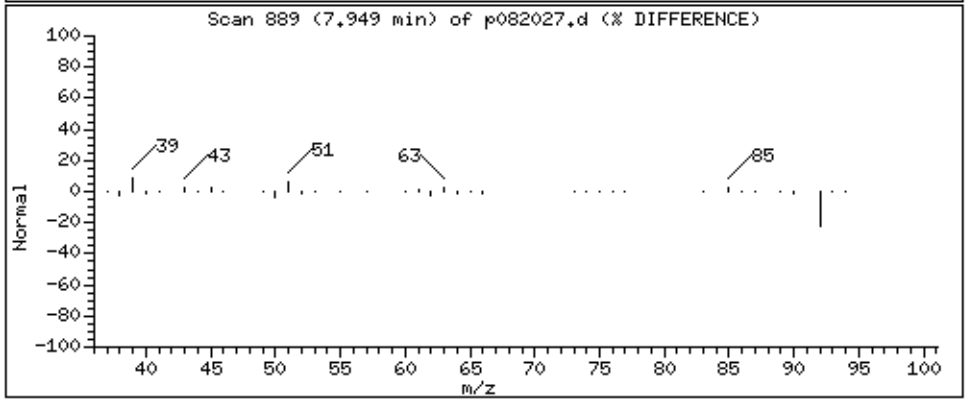












Data File: /chem/msdp.i/20AUG21.b/p082027.d

Page 9

Date : 21-AUG-2021 03:12

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1L1678

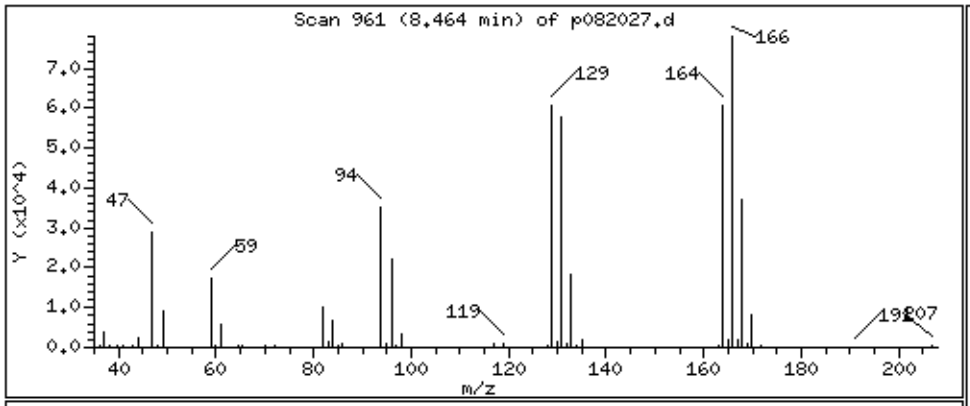
Operator: kk

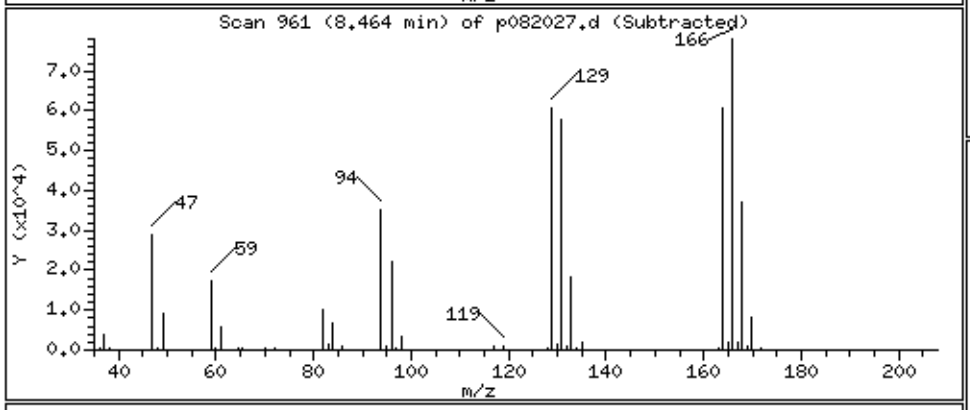
Column phase: RTX-624

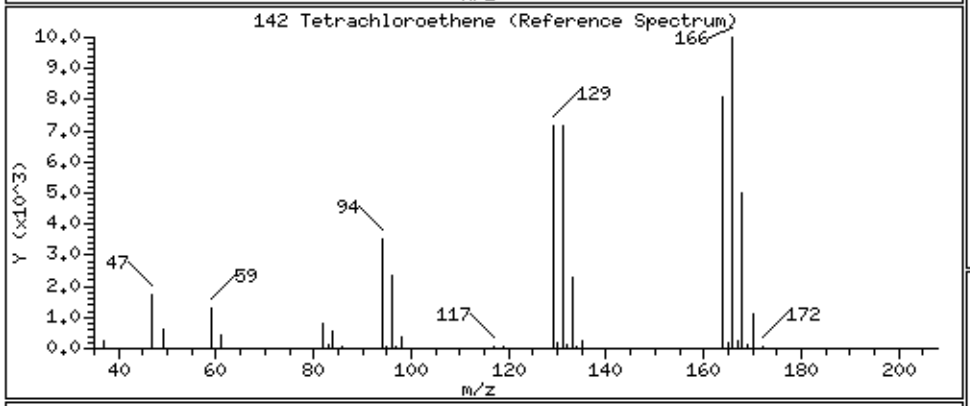
Column diameter: 0.25

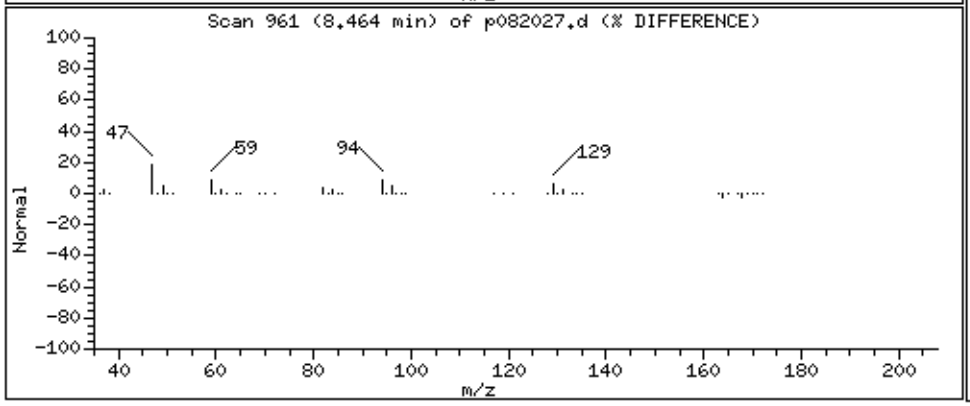
142 Tetrachloroethene

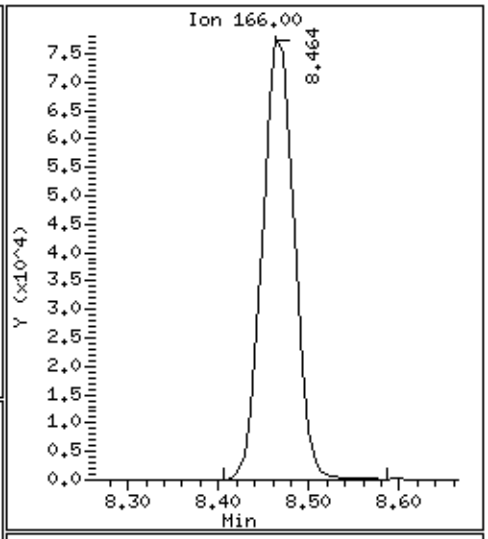
Concentration: 44.783 PPBV

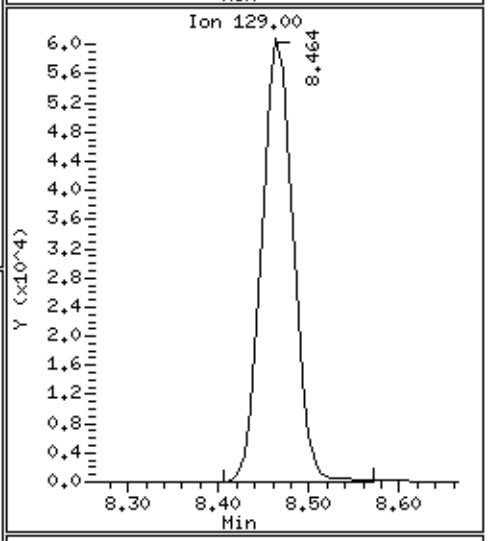


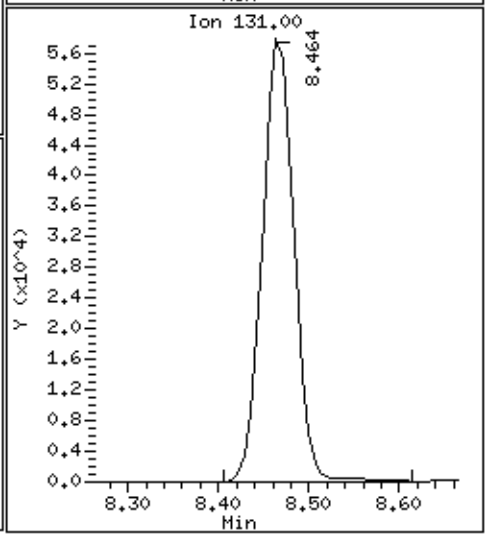












Data File: /chem/msdp.i/20AUG21.b/p082027.d

Page 10

Date : 21-AUG-2021 03:12

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1L1678

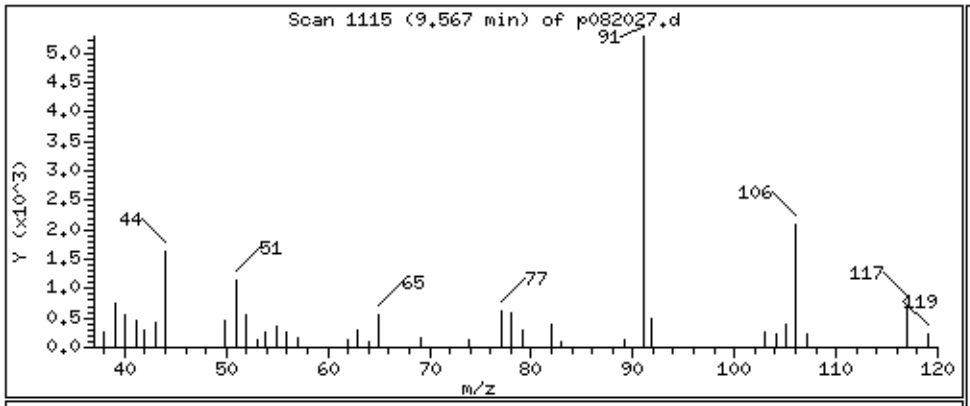
Operator: kk

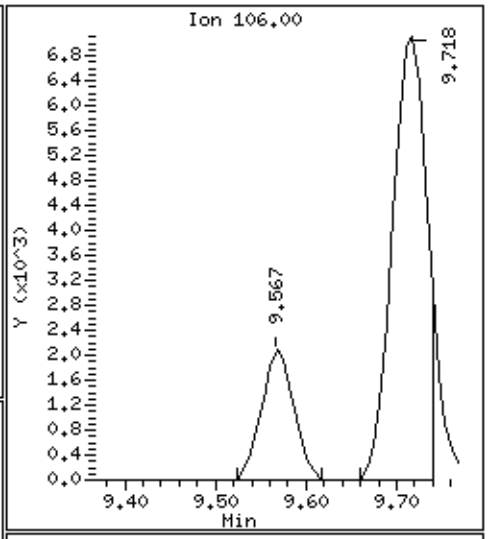
Column phase: RTX-624

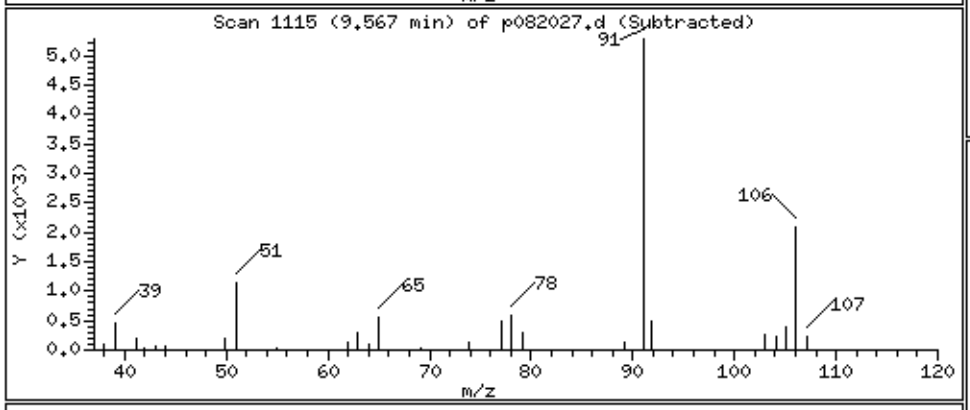
Column diameter: 0.25

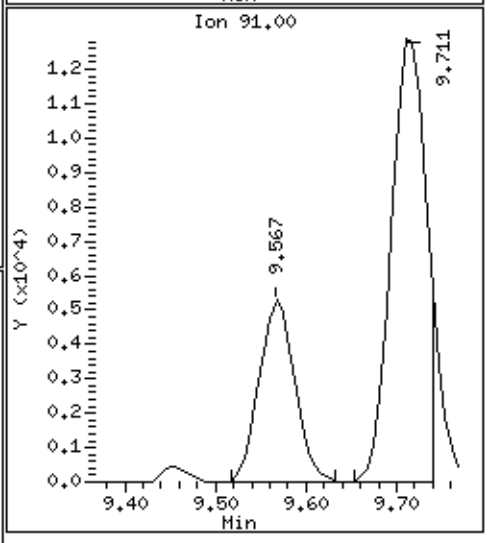
155 Ethyl Benzene

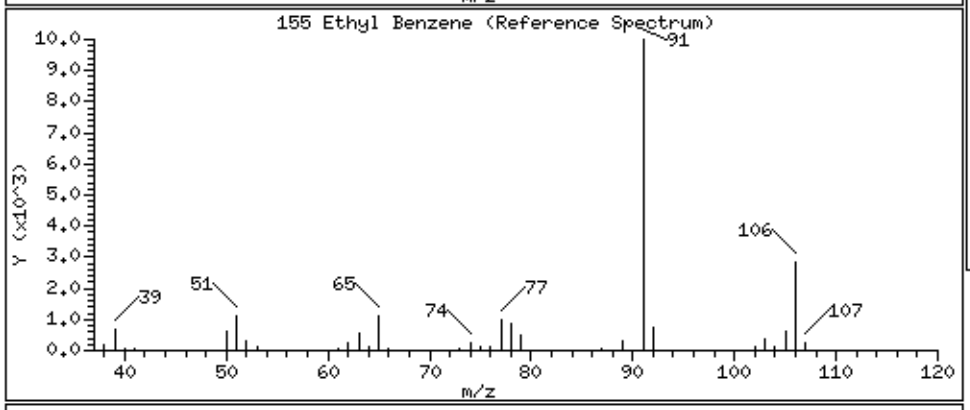
Concentration: 1.330 PPBV

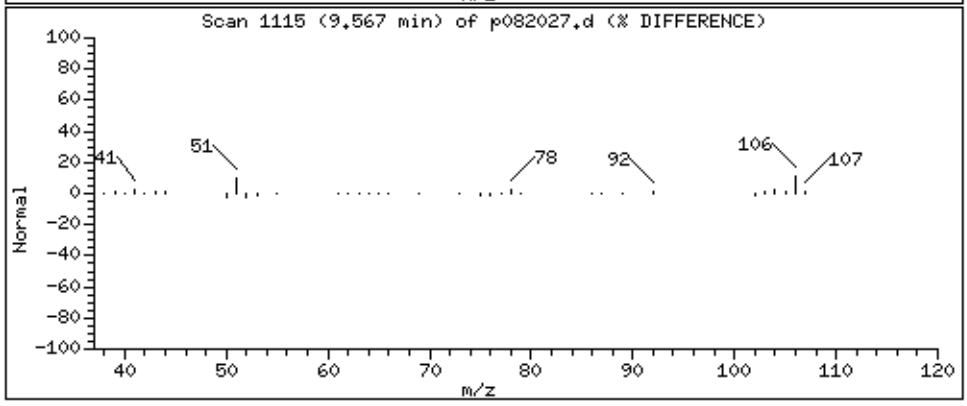












Data File: /chem/msdp.i/20AUG21.b/p082027.d

Date : 21-AUG-2021 03:12

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1L1678

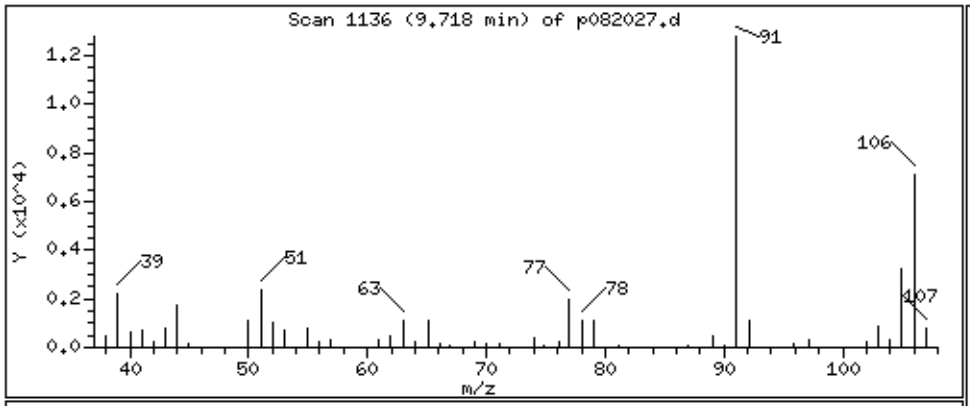
Operator: kk

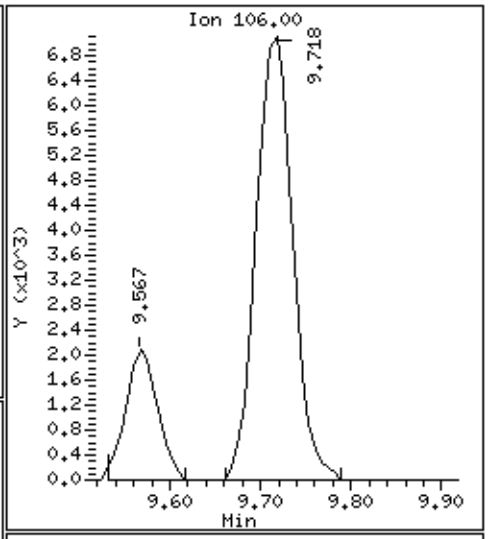
Column phase: RTX-624

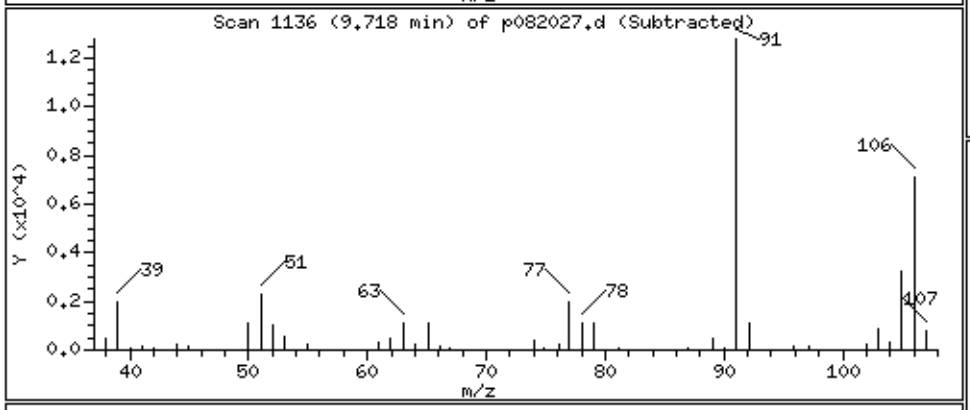
Column diameter: 0.25

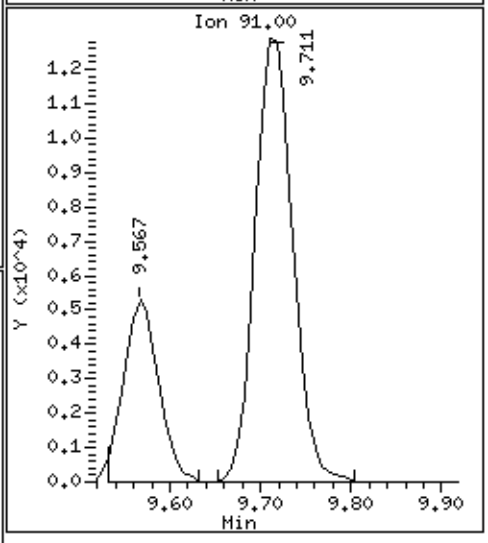
158 m,p-Xylene

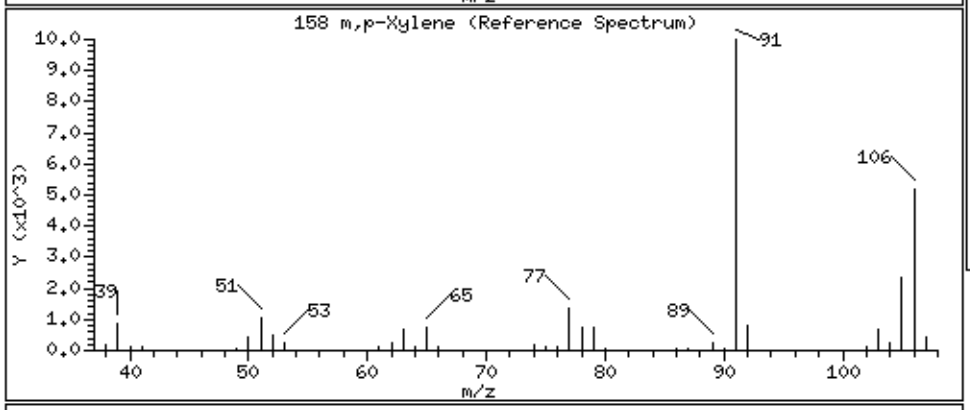
Concentration: 4.105 PPBV

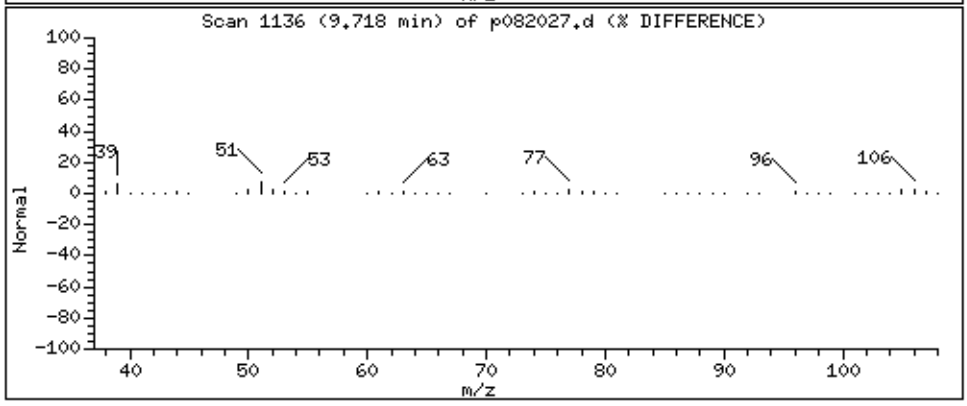












Data File: /chem/msdp.i/20AUG21.b/p082027.d

Date : 21-AUG-2021 03:12

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1L1678

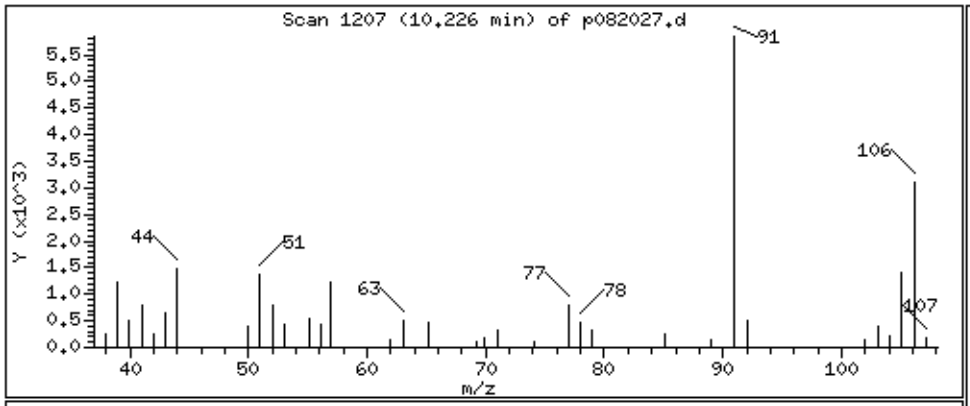
Operator: kk

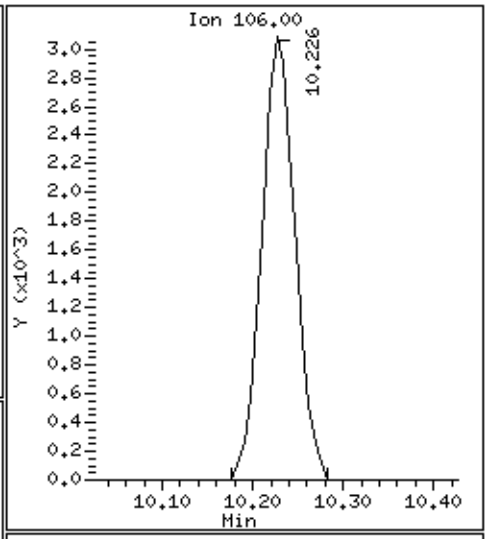
Column phase: RTX-624

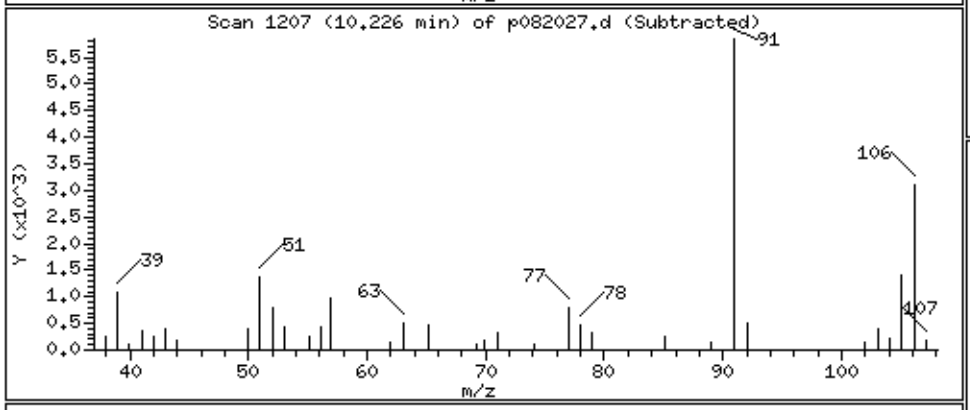
Column diameter: 0.25

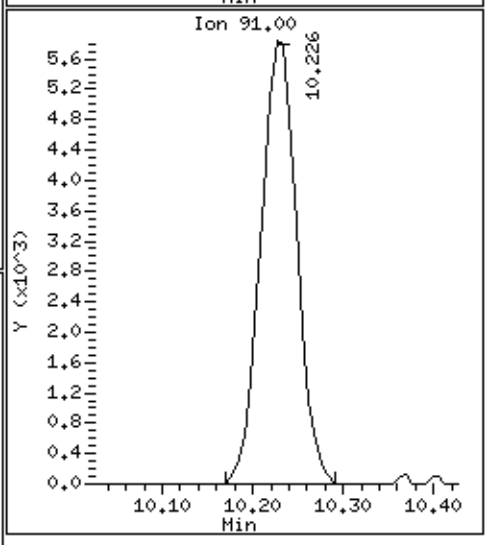
164 o-Xylene

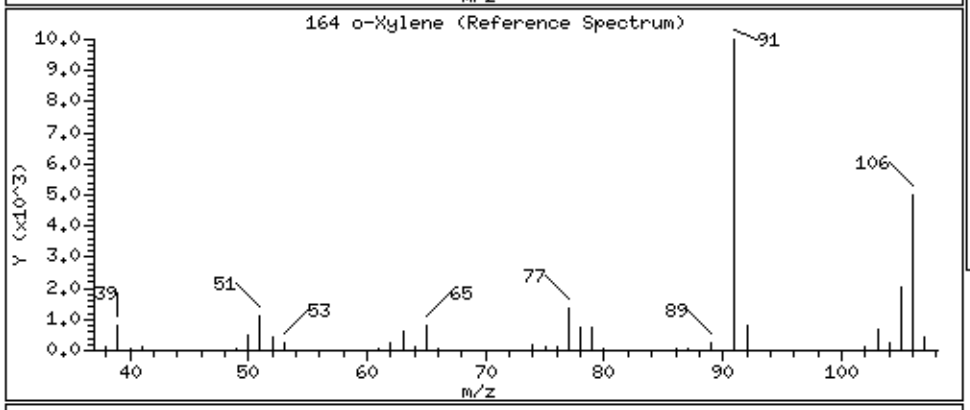
Concentration: 1.694 PPBV

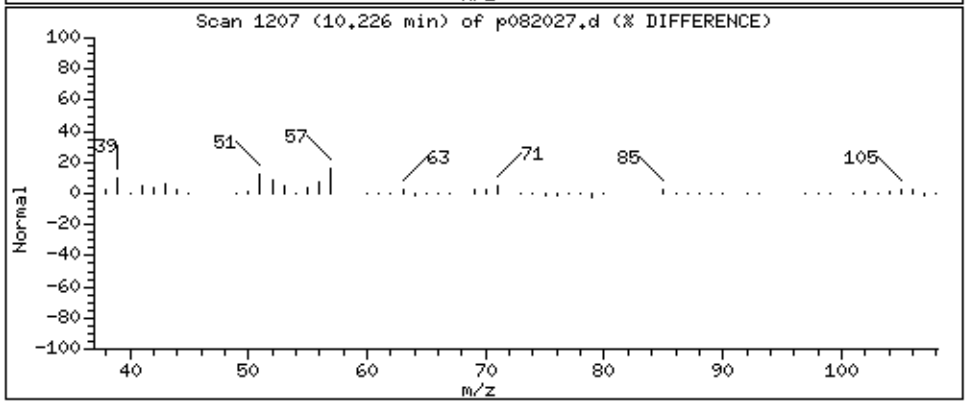












Data File: /chem/msdp.i/20AUG21.b/p082027.d

Date : 21-AUG-2021 03:12

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1L1678

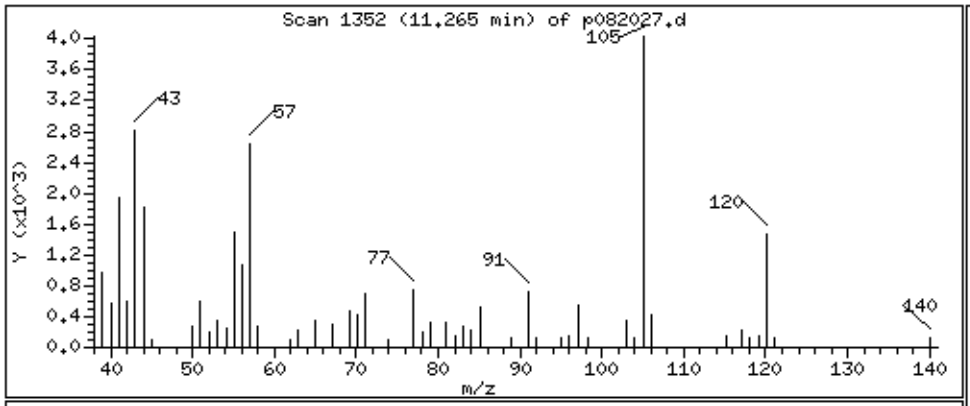
Operator: kk

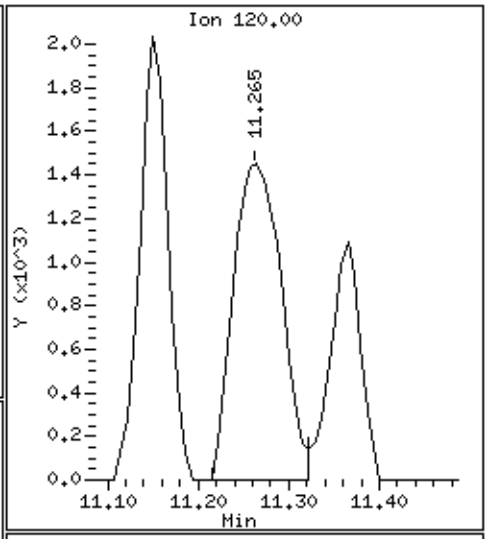
Column phase: RTX-624

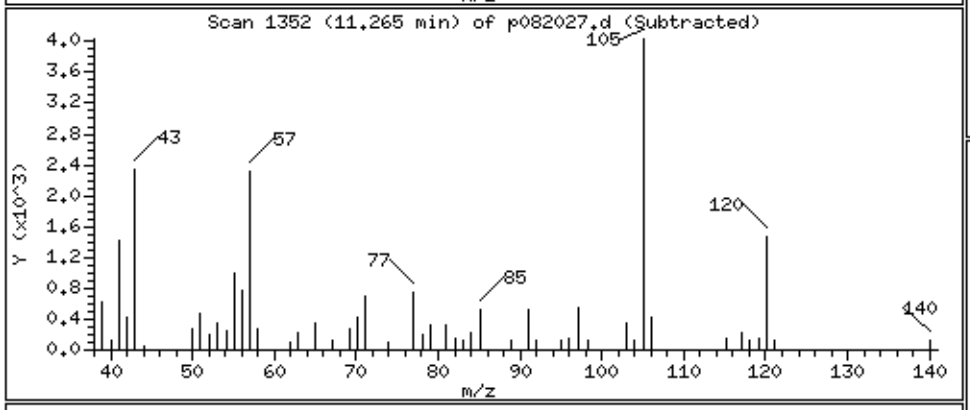
Column diameter: 0.25

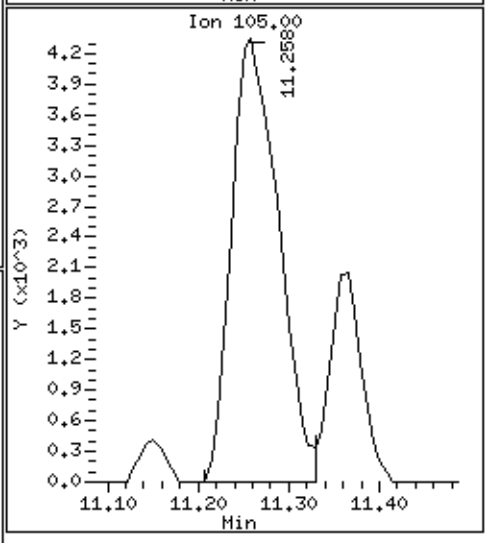
183 4-Ethyltoluene

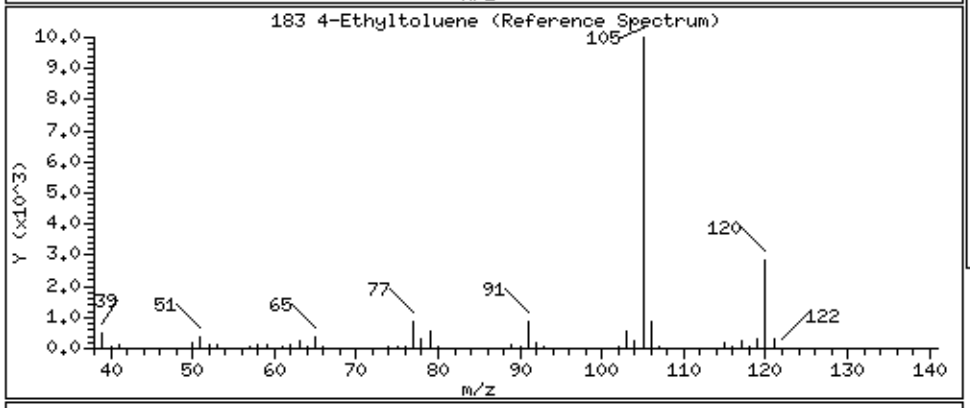
Concentration: 1.129 PPBV

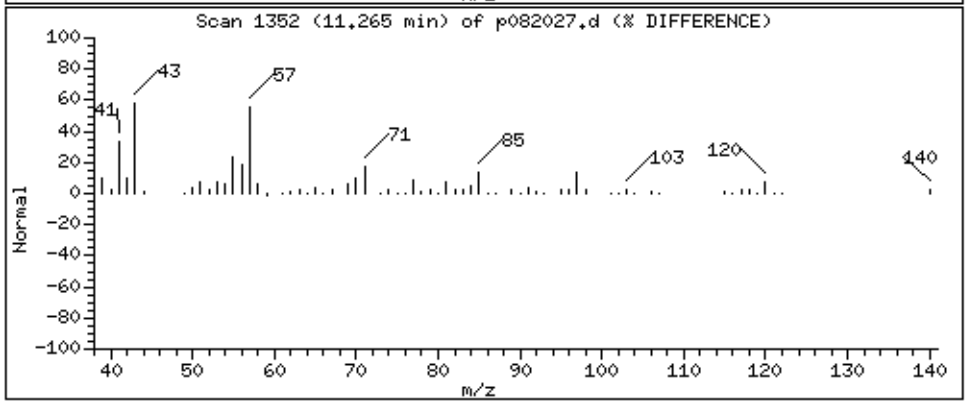












Data File: /chem/msdp.i/20AUG21.b/p082027.d

Date : 21-AUG-2021 03:12

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1L1678

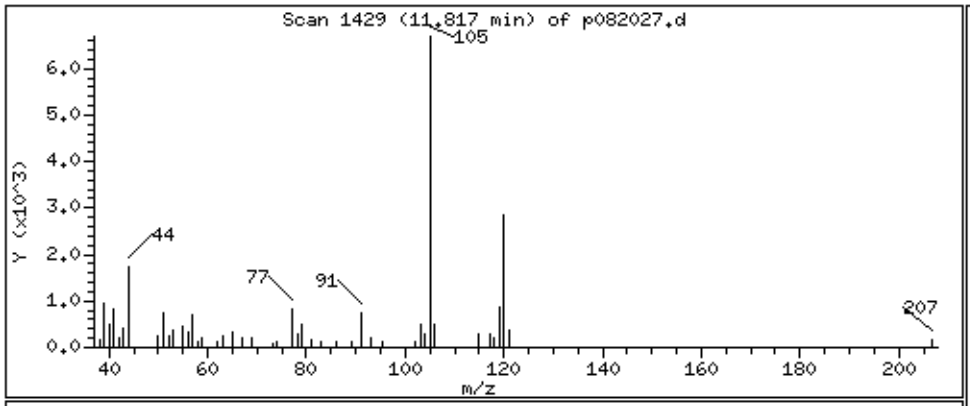
Operator: kk

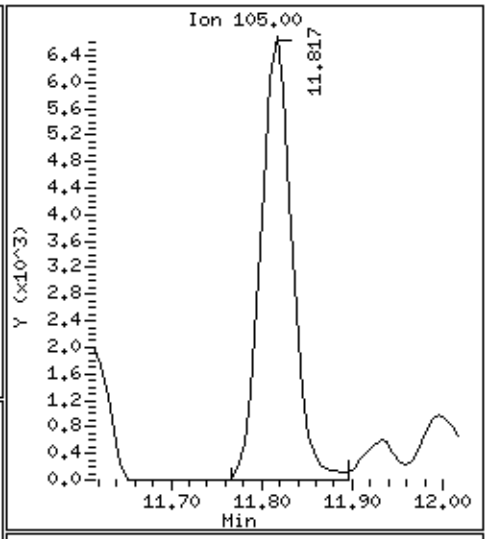
Column phase: RTX-624

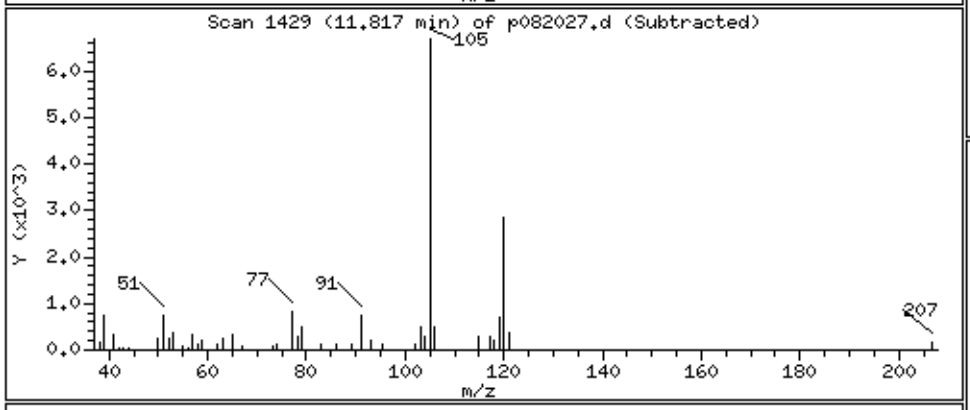
Column diameter: 0.25

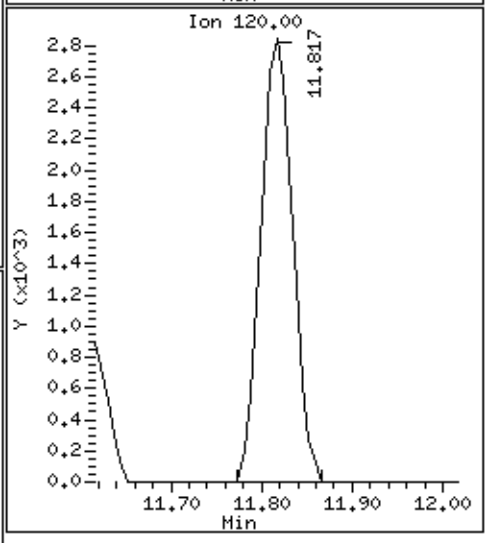
190 1,2,4-Trimethylbenzene

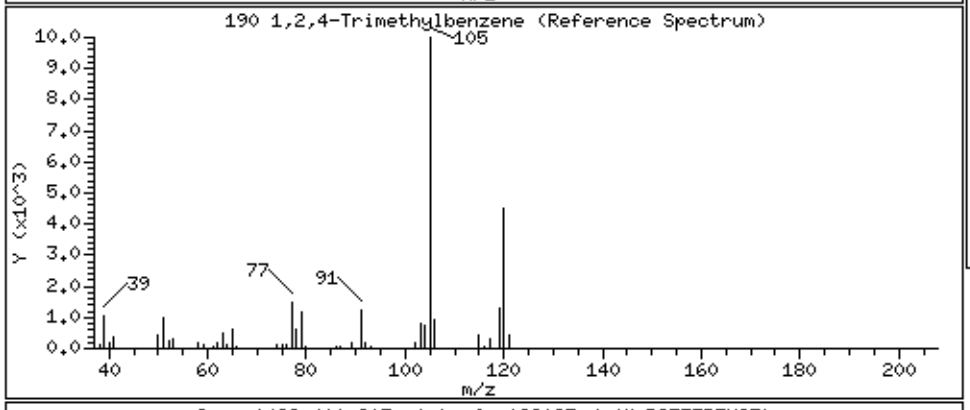
Concentration: 1.308 PPBV

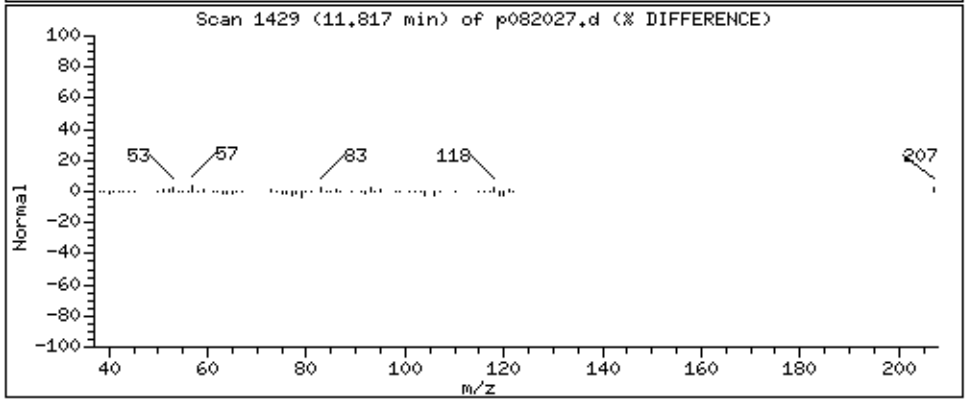












eurofins | Air Toxics

Client Sample ID: SG-VW59A-02

Lab ID#: 2108390-18A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p082028**	**Date of Collection:**	**8/17/21 10:16:00 AM**
Dil. Factor:	**2.02**	**Date of Analysis:**	**8/21/21 03:42 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1,2-Tetrachloroethane	4.0	Not Detected	28	Not Detected
1,1,1-Trichloroethane	1.0	Not Detected	5.5	Not Detected
1,1,2,2-Tetrachloroethane	1.0	Not Detected	6.9	Not Detected
1,1,2-Trichloroethane	1.0	Not Detected	5.5	Not Detected
1,1-Dichloroethane	1.0	Not Detected	4.1	Not Detected
1,1-Dichloroethene	1.0	Not Detected	4.0	Not Detected
1,1-Difluoroethane	4.0	Not Detected	11	Not Detected
1,2,3-Trichloropropane	4.0	Not Detected	24	Not Detected
1,2,4-Trichlorobenzene	4.0	Not Detected	30	Not Detected
1,2,4-Trimethylbenzene	1.0	Not Detected	5.0	Not Detected
1,2-Dibromo-3-chloropropane	4.0	Not Detected	39	Not Detected
1,2-Dibromoethane (EDB)	1.0	Not Detected	7.8	Not Detected
1,2-Dichlorobenzene	1.0	Not Detected	6.1	Not Detected
1,2-Dichloroethane	1.0	Not Detected	4.1	Not Detected
1,2-Dichloropropane	1.0	Not Detected	4.7	Not Detected
1,3,5-Trimethylbenzene	1.0	Not Detected	5.0	Not Detected
1,3-Butadiene	1.0	Not Detected	2.2	Not Detected
1,3-Dichlorobenzene	1.0	Not Detected	6.1	Not Detected
1,4-Dichlorobenzene	1.0	Not Detected	6.1	Not Detected
1,4-Dioxane	4.0	Not Detected	14	Not Detected
2,2,4-Trimethylpentane	1.0	Not Detected	4.7	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.0	Not Detected	12	Not Detected
2-Hexanone	4.0	Not Detected	16	Not Detected
2-Propanol	4.0	Not Detected	9.9	Not Detected
3-Chloropropene	4.0	Not Detected	13	Not Detected
4-Ethyltoluene	1.0	Not Detected	5.0	Not Detected
4-Methyl-2-pentanone	1.0	Not Detected	4.1	Not Detected
Acetone	10	Not Detected	24	Not Detected
Acrolein	4.0	Not Detected	9.3	Not Detected
Acrylonitrile	4.0	Not Detected	8.8	Not Detected
alpha-Chlorotoluene	1.0	Not Detected	5.2	Not Detected
Benzene	1.0	Not Detected	3.2	Not Detected
Bromodichloromethane	1.0	Not Detected	6.8	Not Detected
Bromoform	1.0	Not Detected	10	Not Detected
Bromomethane	10	Not Detected	39	Not Detected
Carbon Disulfide	4.0	Not Detected	12	Not Detected
Carbon Tetrachloride	1.0	Not Detected	6.4	Not Detected
Chlorobenzene	1.0	Not Detected	4.6	Not Detected
Chloroethane	4.0	Not Detected	11	Not Detected
Chloroform	1.0	Not Detected	4.9	Not Detected
Chloromethane	10	Not Detected	21	Not Detected
cis-1,2-Dichloroethene	1.0	Not Detected	4.0	Not Detected

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Client Sample ID: SG-VW59A-02

Lab ID#: 2108390-18A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p082028**	**Date of Collection:**	**8/17/21 10:16:00 AM**
Dil. Factor:	**2.02**	**Date of Analysis:**	**8/21/21 03:42 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,3-Dichloropropene	1.0	Not Detected	4.6	Not Detected
Cumene	1.0	Not Detected	5.0	Not Detected
Cyclohexane	1.0	Not Detected	3.5	Not Detected
Dibromochloromethane	1.0	Not Detected	8.6	Not Detected
Dibromomethane	4.0	Not Detected	29	Not Detected
Ethanol	10	12	19	22
Ethyl Acetate	4.0	Not Detected	14	Not Detected
Ethyl Benzene	1.0	1.0	4.4	4.4
Ethyl-tert-butyl ether	4.0	Not Detected	17	Not Detected
Freon 11	1.0	Not Detected	5.7	Not Detected
Freon 12	1.0	1.5	5.0	7.5
Freon 113	1.0	Not Detected	7.7	Not Detected
Freon 114	1.0	Not Detected	7.1	Not Detected
Freon 134a	4.0	Not Detected	17	Not Detected
Heptane	1.0	Not Detected	4.1	Not Detected
Hexachlorobutadiene	4.0	Not Detected	43	Not Detected
Hexachloroethane	4.0	Not Detected	39	Not Detected
Hexane	1.0	42	3.6	150
Iodomethane	10	Not Detected	59	Not Detected
Isopropyl ether	4.0	Not Detected	17	Not Detected
m,p-Xylene	1.0	3.7	4.4	16
Methyl tert-butyl ether	4.0	Not Detected	14	Not Detected
Methylene Chloride	10	Not Detected	35	Not Detected
Naphthalene	2.0	Not Detected	10	Not Detected
o-Xylene	1.0	1.4	4.4	6.1
Propylbenzene	1.0	Not Detected	5.0	Not Detected
Propylene	4.0	Not Detected	7.0	Not Detected
Styrene	1.0	Not Detected	4.3	Not Detected
tert-Amyl methyl ether	4.0	Not Detected	17	Not Detected
tert-Butyl alcohol	4.0	Not Detected	12	Not Detected
Tetrachloroethene	1.0	15	6.8	100
Tetrahydrofuran	1.0	Not Detected	3.0	Not Detected
Toluene	1.0	3.7	3.8	14
TPH ref. to Gasoline (MW=100)	100	Not Detected	410	Not Detected
trans-1,2-Dichloroethene	1.0	Not Detected	4.0	Not Detected
trans-1,3-Dichloropropene	1.0	Not Detected	4.6	Not Detected
Trichloroethene	1.0	Not Detected	5.4	Not Detected
Vinyl Acetate	4.0	Not Detected	14	Not Detected
Vinyl Bromide	4.0	Not Detected	18	Not Detected
Vinyl Chloride	1.0	Not Detected	2.6	Not Detected

Container Type: 1 Liter Summa Canister

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Client Sample ID: SG-VW59A-02

Lab ID#: 2108390-18A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p082028**	**Date of Collection:**	**8/17/21 10:16:00 AM**
Dil. Factor:	**2.02**	**Date of Analysis:**	**8/21/21 03:42 AM**

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	109	70-130
4-Bromofluorobenzene	102	70-130

US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/20AUG21.b/p082028.d
Lab Smp Id: 2108390-18A
Inj Date : 21-AUG-2021 03:42
Operator : kk Inst ID: msdp.i
Smp Info : 200ml O0239
Misc Info : 5.0 Hg->10 psi
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/20AUG21.b/p21q0519a.m
Meth Date : 20-Aug-2021 12:59 p5fl Quant Type: ISTD
Cal Date : 19-MAY-2021 19:45 Cal File: p051915.d
Als bottle: 10
Dil Factor: 2.02000
Integrator: HP RTE Compound Sublist: AEC25677.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE		(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 90 Bromochloromethane						CAS #: 74-97-5		
5.785	5.785 (1.000)	130	104790	25.0000			80.00- 120.00	100.00
5.785	5.785 (1.000)	128	81003				48.23- 108.23	77.30
5.785	5.778 (1.000)	49	241580				150.57- 210.57	230.54
* 108 1,4-Difluorobenzene						CAS #: 540-36-3		
6.666	6.659 (1.000)	114	369112	25.0000			80.00- 120.00	100.00
6.666	6.659 (1.000)	88	53857				0.00- 45.71	14.59
* 153 Chlorobenzene-d5						CAS #: 3114-55-4		
9.460	9.460 (1.000)	117	385745	25.0000			80.00- 120.00	100.00
9.460	9.460 (1.000)	82	197629				23.78- 83.78	51.23
$ 104 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
6.315	6.315 (1.092)	65	157276	27.1959	27.196		80.00- 120.00	100.00
6.315	6.315 (1.092)	67	74412				27.21- 87.21	47.31
$ 134 Toluene-d8						CAS #: 2037-26-5		
7.891	7.891 (1.184)	98	406061	25.3340	25.334		80.00- 120.00	100.00
7.891	7.891 (1.184)	70	44521				0.00- 40.44	10.96

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 134 Toluene-d8 (continued)							
7.891	7.891 (1.184)	100	260778			34.95- 94.95	64.22
$ 170 4-Bromofluorobenzene					CAS #: 460-00-4		
10.921	10.921 (1.154)	174	253636	25.6056	25.606	80.00- 120.00	100.00
10.921	10.914 (1.154)	95	292553			95.92- 155.92	115.34
10.921	10.921 (1.154)	176	241792			66.89- 126.89	95.33
8 Freon 12					CAS #: 75-71-8		
1.730	1.717 (0.299)	85	7039	0.74895	1.513	80.00- 120.00	100.00
1.730	1.717 (0.299)	87	2118			2.37- 62.37	30.09
39 Ethanol					CAS #: 64-17-5		
3.271	3.242 (0.565)	46	5989	5.76311	11.641	80.00- 120.00	100.00
3.257	3.285 (0.563)	45	16715			511.19- 571.19	279.09
67 Hexane					CAS #: 110-54-3		
4.696	4.697 (0.812)	57	213099	20.6431	41.699	80.00- 120.00	100.00
4.696	4.697 (0.812)	43	171211			37.52- 97.52	80.34
4.703	4.697 (0.813)	86	20228			0.00- 41.48	9.49
137 Toluene					CAS #: 108-88-3		
7.956	7.956 (1.193)	91	30961	1.84236	3.722	80.00- 120.00	100.00
7.956	7.956 (1.193)	92	17408			28.38- 88.38	56.23
142 Tetrachloroethene					CAS #: 127-18-4		
8.471	8.464 (0.895)	166	66739	7.59136	15.334	80.00- 120.00	100.00
8.464	8.464 (0.895)	129	52209			47.84- 107.84	78.23
8.471	8.464 (0.895)	131	52107			45.29- 105.29	78.08
155 Ethyl Benzene					CAS #: 100-41-4		
9.567	9.567 (1.011)	106	4022	0.50216	1.014	80.00- 120.00	100.00
9.567	9.567 (1.011)	91	12414			273.74- 333.74	308.60
158 m,p-Xylene					CAS #: 108-38-3		
9.718	9.718 (1.027)	106	18527	1.84691	3.731	80.00- 120.00	100.00
9.718	9.718 (1.027)	91	35451			163.73- 223.73	191.34
164 o-Xylene					CAS #: 95-47-6		
10.233	10.226 (1.082)	106	6701	0.69721	1.408	80.00- 120.00	100.00
10.226	10.226 (1.081)	91	13998			177.45- 237.45	208.90

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p082028.d
Lab Smp Id: 2108390-18A
Analysis Type: VOA
Quant Type: ISTD
Operator: kk
Method File: /chem/msdp.i/20AUG21.b/p21q0519a.m
Misc Info: 5.0 Hg->10 psi

Calibration Date: 20-AUG-2021
Calibration Time: 11:13
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	109375	65625	153125	104790	-4.19
108 1,4-Difluorobenze	406799	244079	569519	369112	-9.26
153 Chlorobenzene-d5	400841	240505	561177	385745	-3.77

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.79	5.46	6.12	5.79	-0.00
108 1,4-Difluorobenze	6.66	6.33	6.99	6.67	0.10
153 Chlorobenzene-d5	9.46	9.13	9.79	9.46	-0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 24-Aug-2021 12:39

US32TAR1

RECOVERY REPORT

Client Name: Client SDG: 20AUG21
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 2108390-18A
Level: LOW Operator: kk
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT20_new.spk Quant Type: ISTD
Sublist File: AEC25677.sub
Method File: /chem/msdp.i/20AUG21.b/p21q0519a.m
Misc Info: 5.0 Hg->10 psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 104 1,2-Dichloroethan	25.000	27.196	108.78	70-130
$ 134 Toluene-d8	25.000	25.334	101.34	70-130
$ 170 4-Bromofluorobenz	25.000	25.606	102.42	70-130

Data File: /chem/msdp.i/20AUG21.b/p082028.d

Date : 21-AUG-2021 03:42

Client ID:

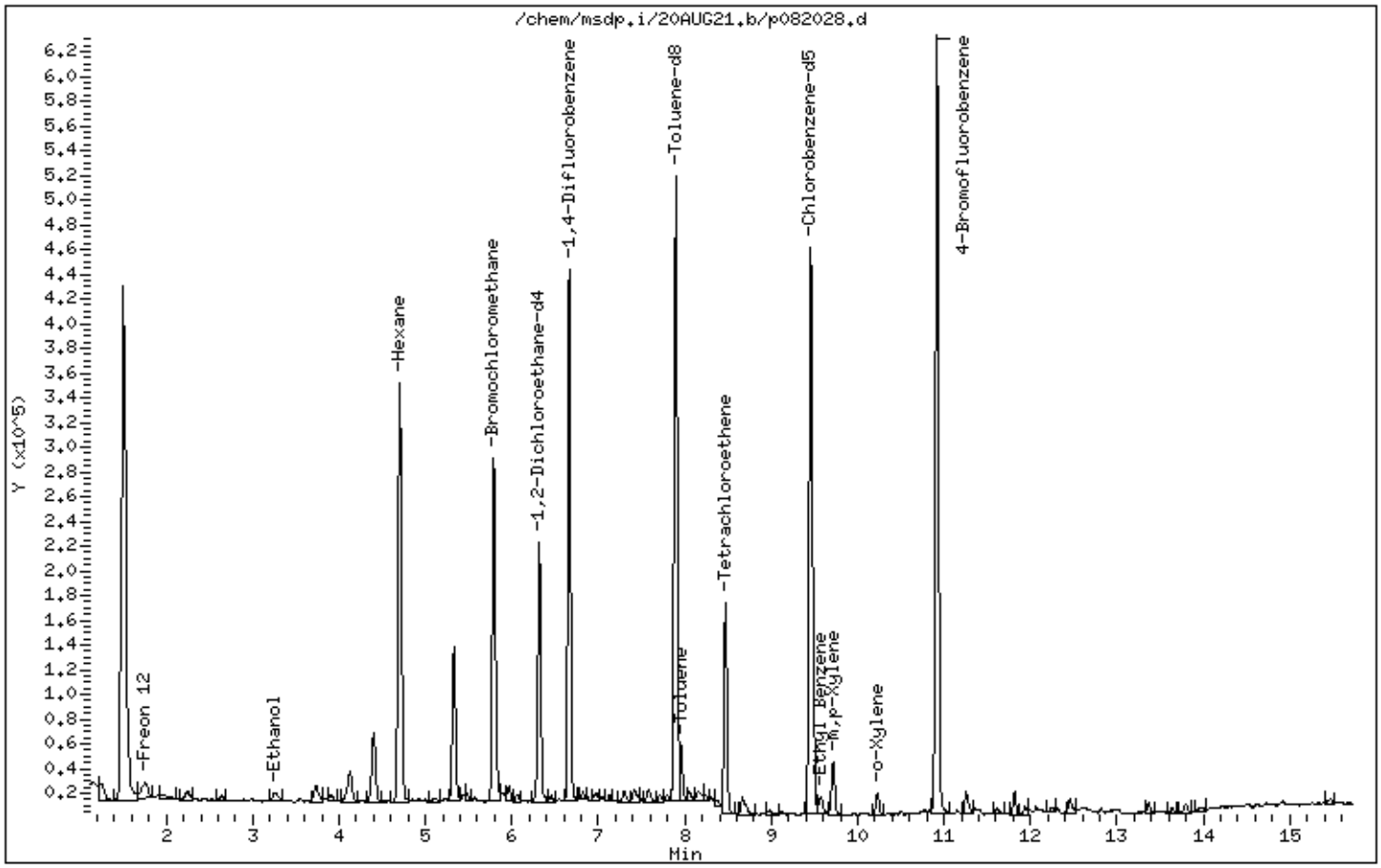
Instrument: msdp.i

Sample Info: 200ml 00239

Operator: kk

Column phase: RTX-624

Column diameter: 0.25



Data File: /chem/msdp.i/20AUG21.b/p082028.d

Date : 21-AUG-2021 03:42

Client ID:

Instrument: msdp.i

Sample Info: 200ml 00239

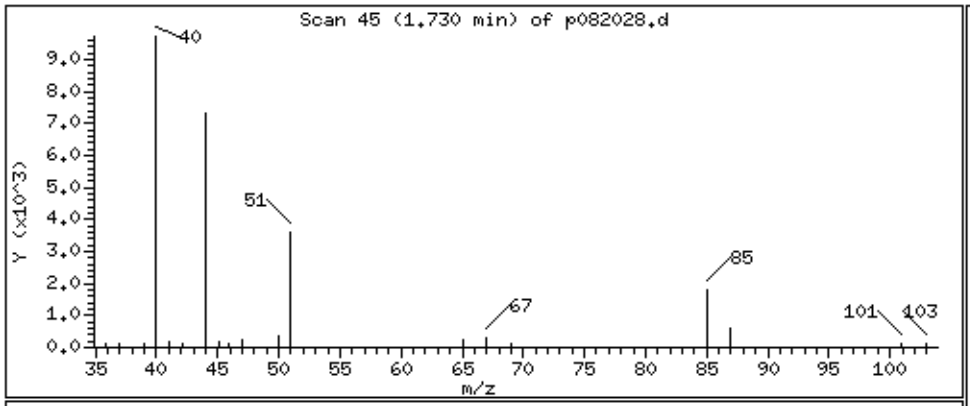
Operator: kk

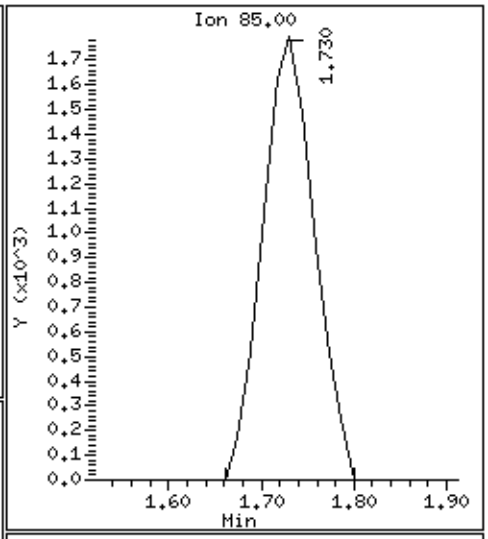
Column phase: RTX-624

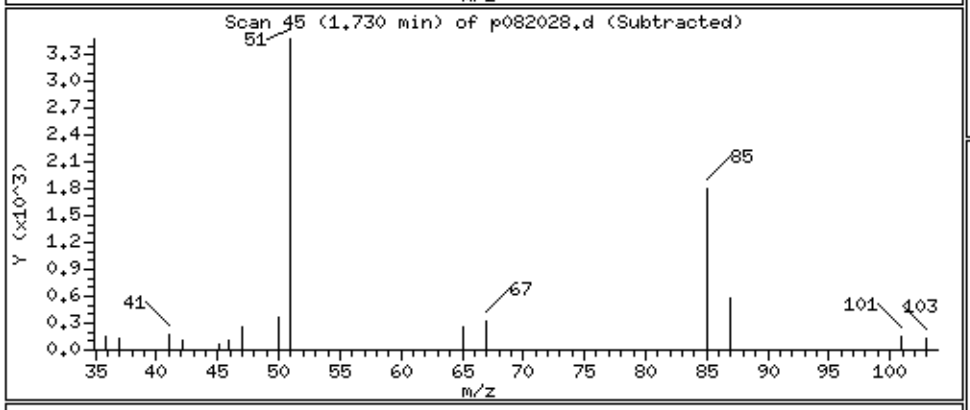
Column diameter: 0.25

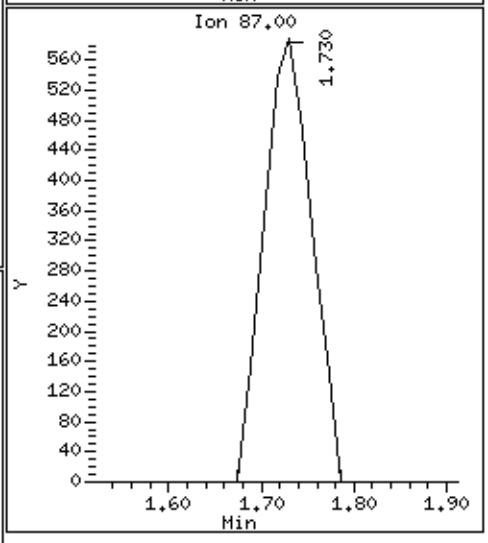
8 Freon 12

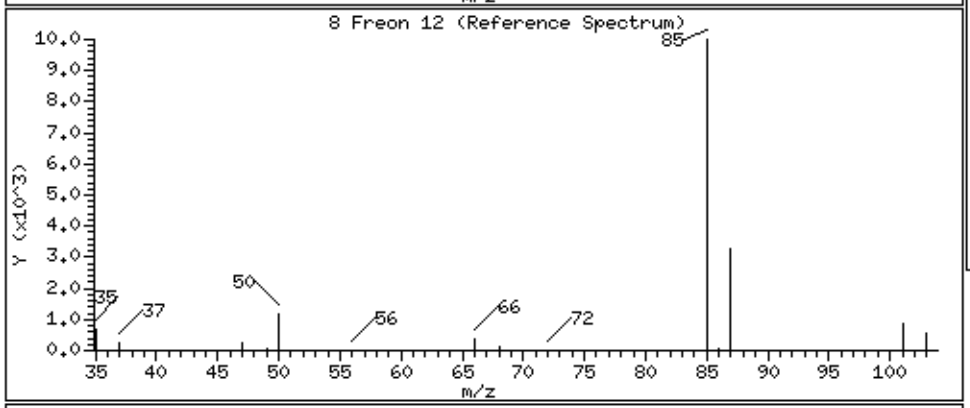
Concentration: 1.513 PPBV

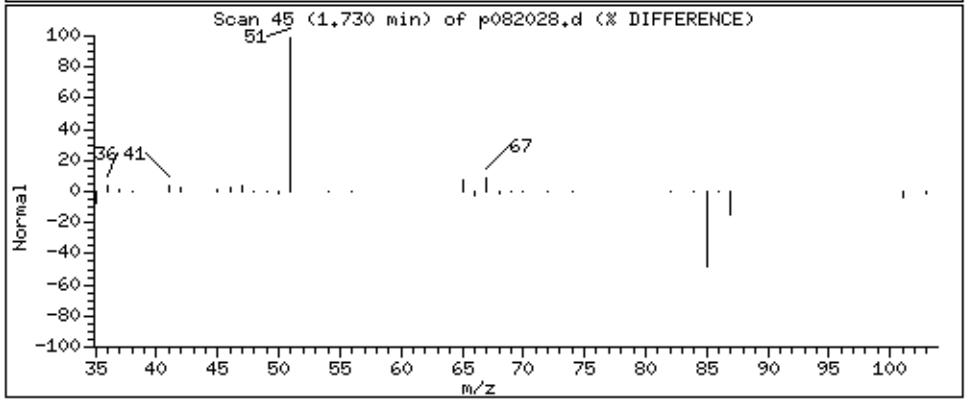












Data File: /chem/msdp.i/20AUG21.b/p082028.d

Date : 21-AUG-2021 03:42

Client ID:

Instrument: msdp.i

Sample Info: 200ml 00239

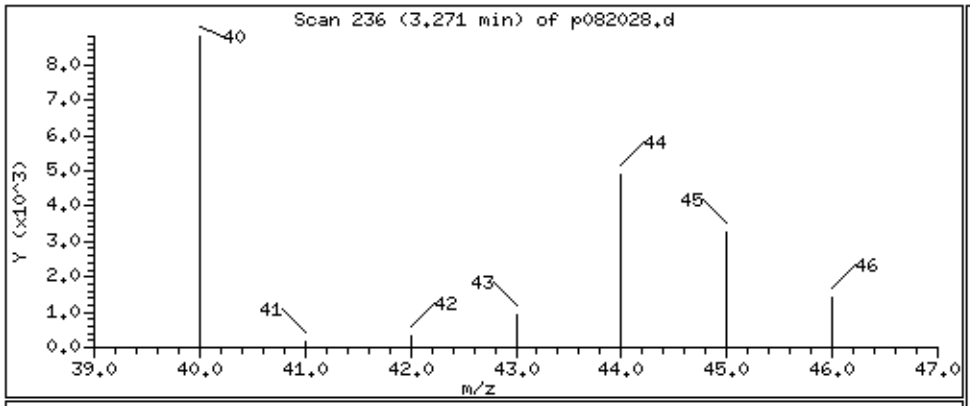
Operator: kk

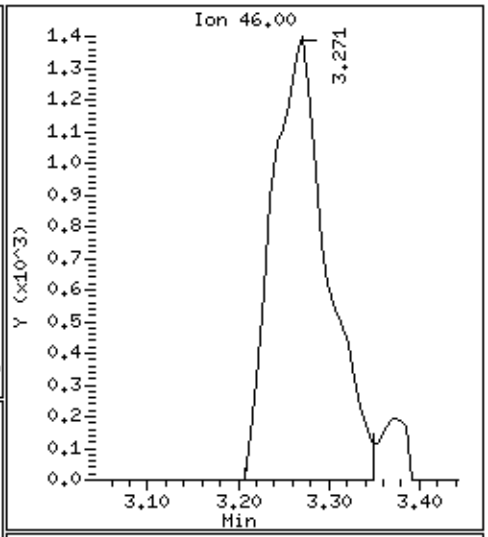
Column phase: RTX-624

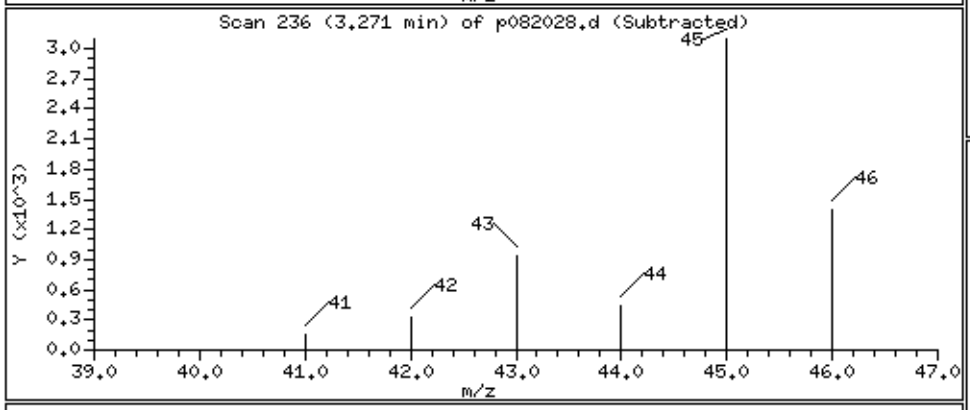
Column diameter: 0.25

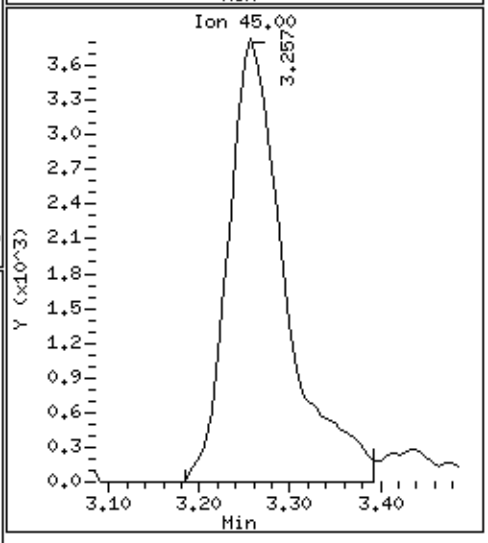
39 Ethanol

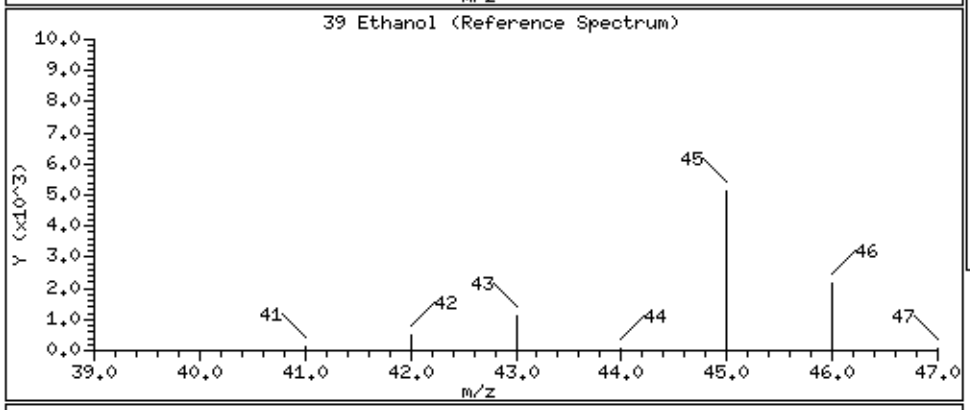
Concentration: 11.641 PPBV

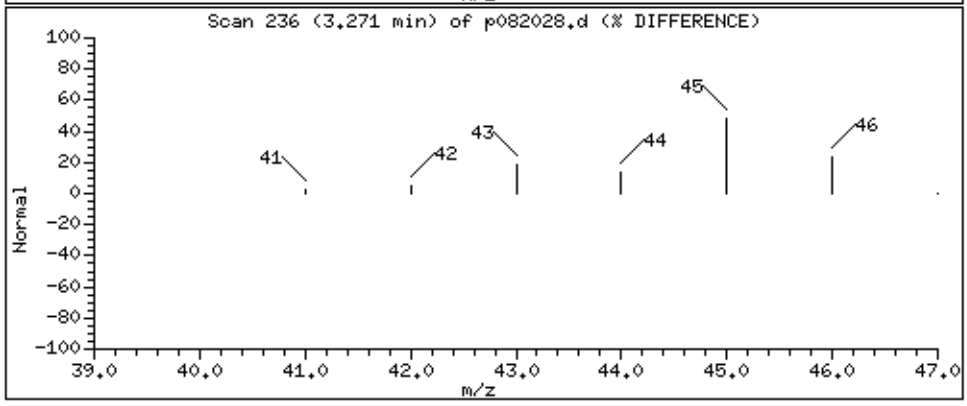












Data File: /chem/msdp.i/20AUG21.b/p082028.d

Date : 21-AUG-2021 03:42

Client ID:

Instrument: msdp.i

Sample Info: 200ml 00239

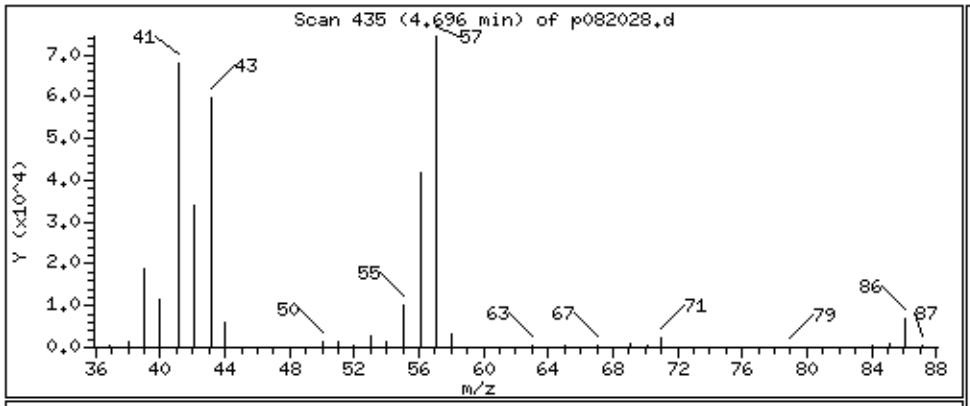
Operator: kk

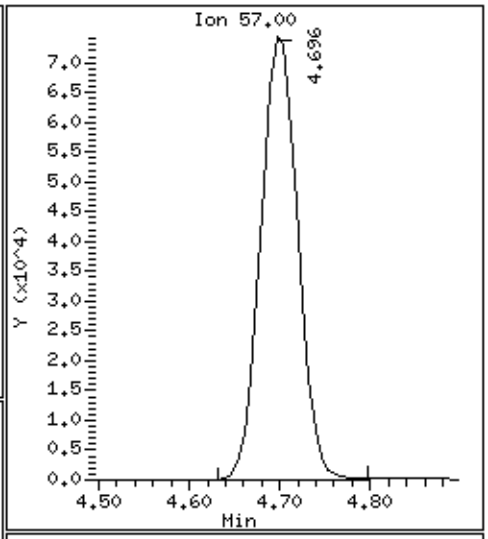
Column phase: RTX-624

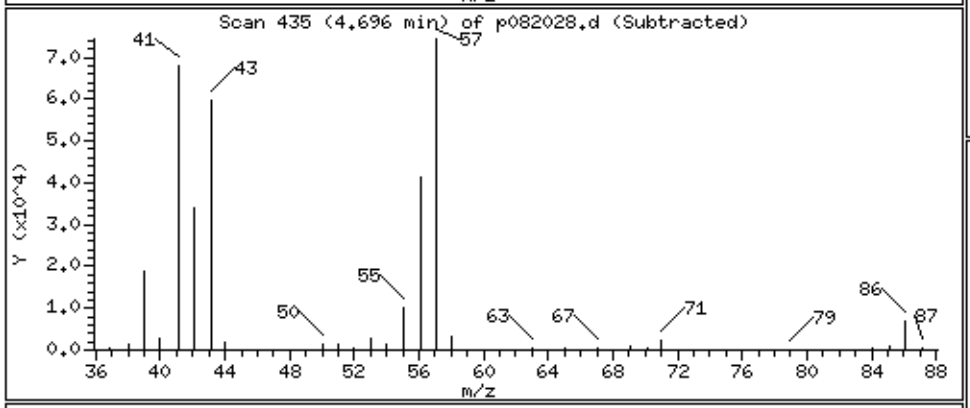
Column diameter: 0.25

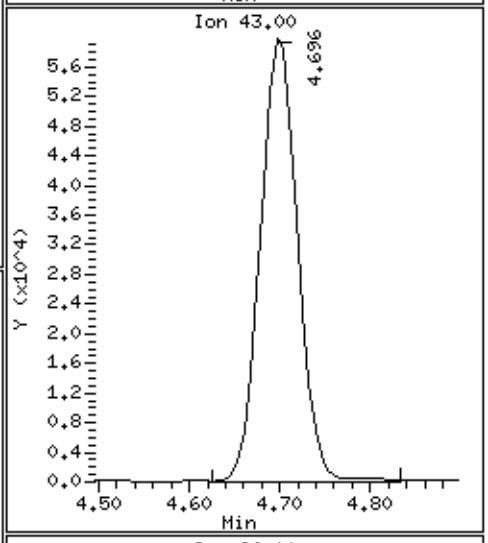
67 Hexane

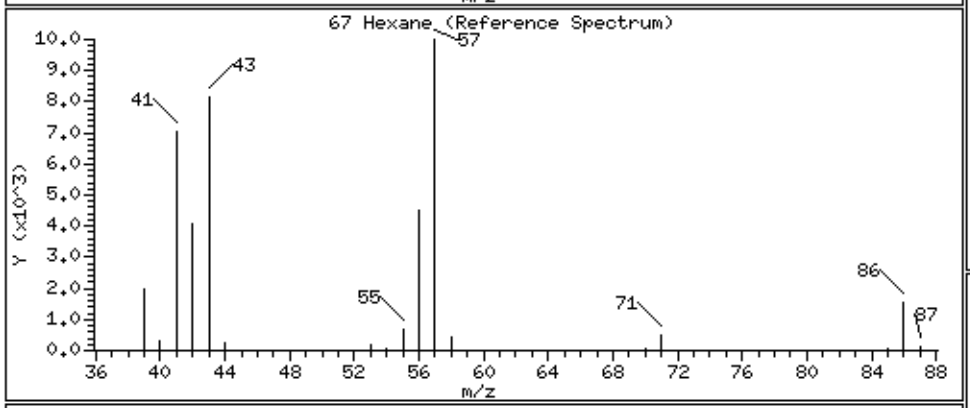
Concentration: 41.699 PPBV

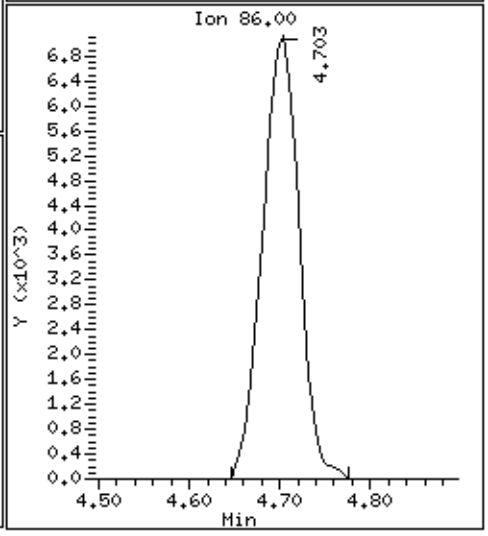


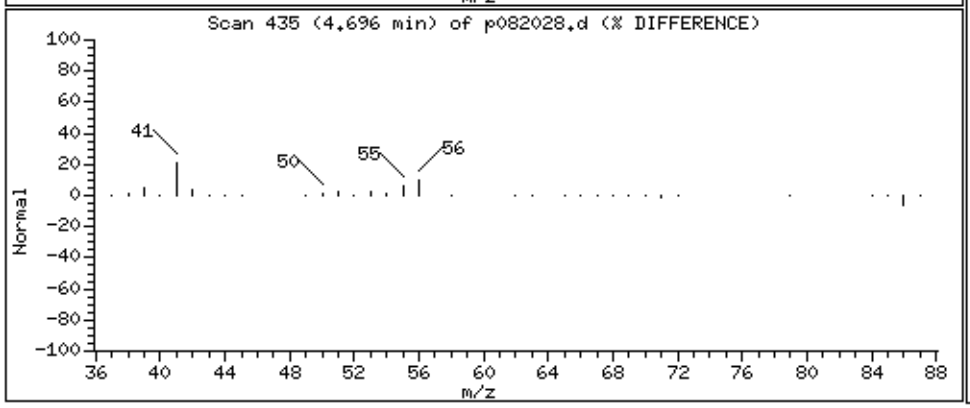












Data File: /chem/msdp.i/20AUG21.b/p082028.d

Date : 21-AUG-2021 03:42

Client ID:

Instrument: msdp.i

Sample Info: 200ml 00239

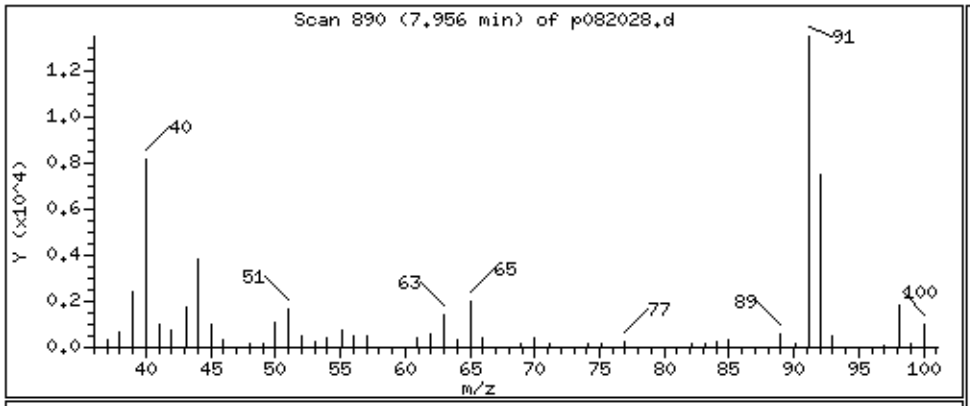
Operator: kk

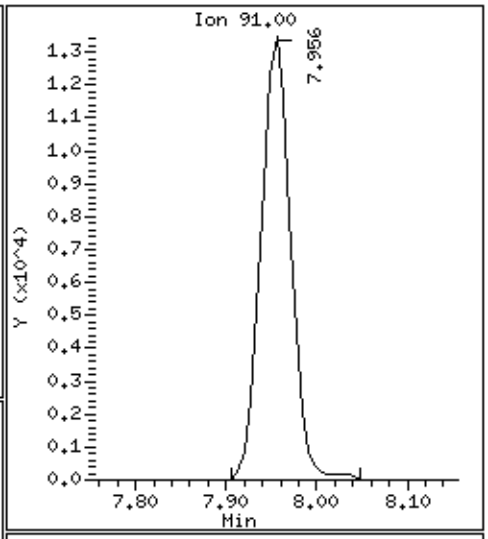
Column phase: RTX-624

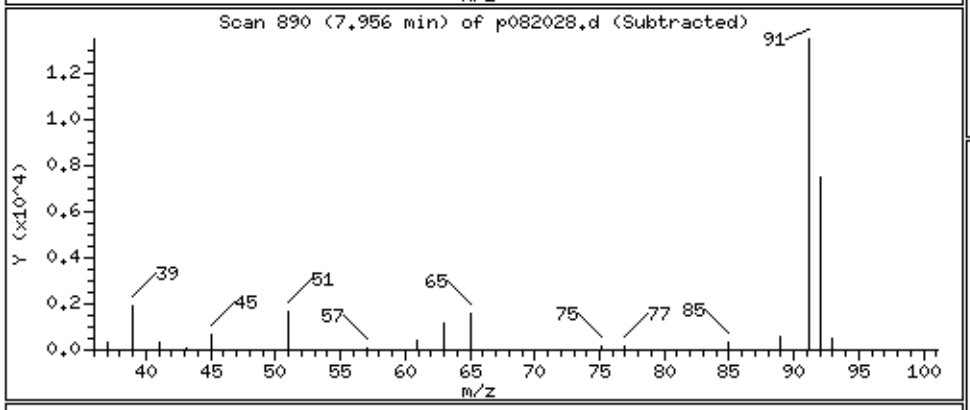
Column diameter: 0.25

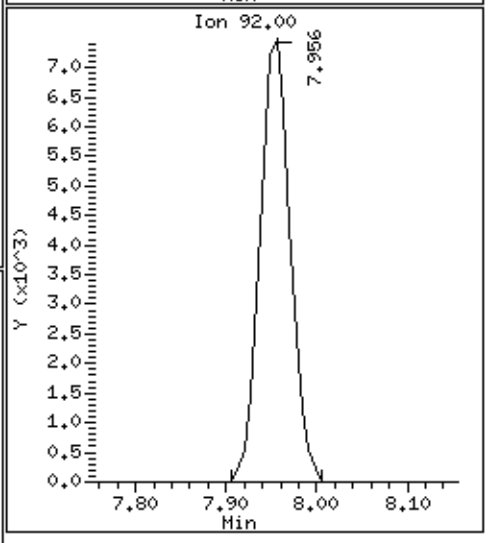
137 Toluene

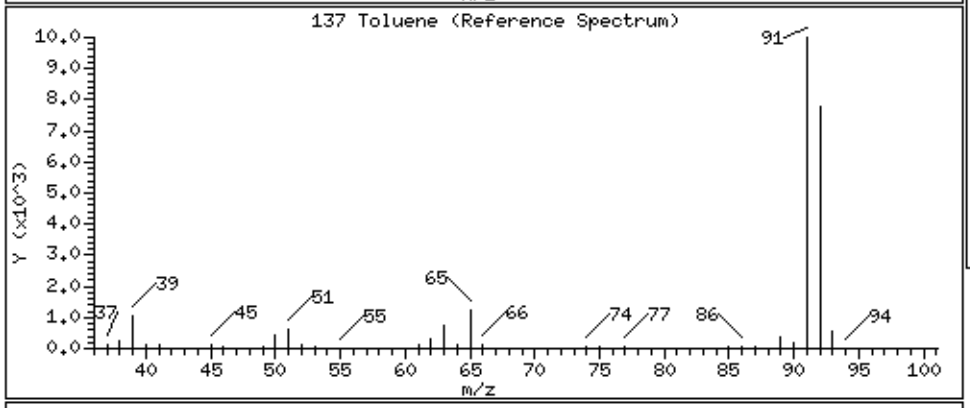
Concentration: 3.722 PPBV

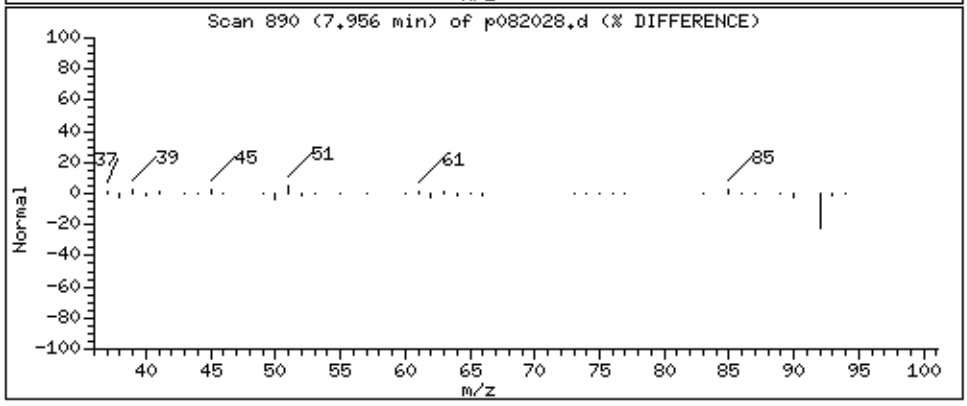












Data File: /chem/msdp.i/20AUG21.b/p082028.d

Page 6

Date : 21-AUG-2021 03:42

Client ID:

Instrument: msdp.i

Sample Info: 200ml 00239

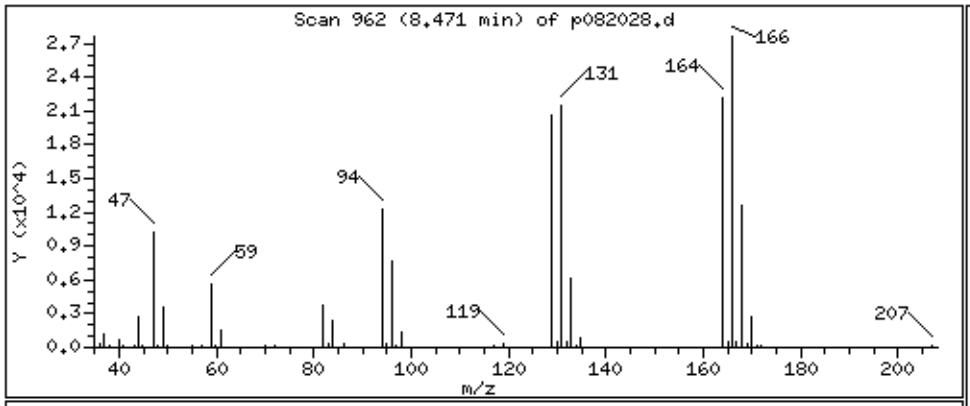
Operator: kk

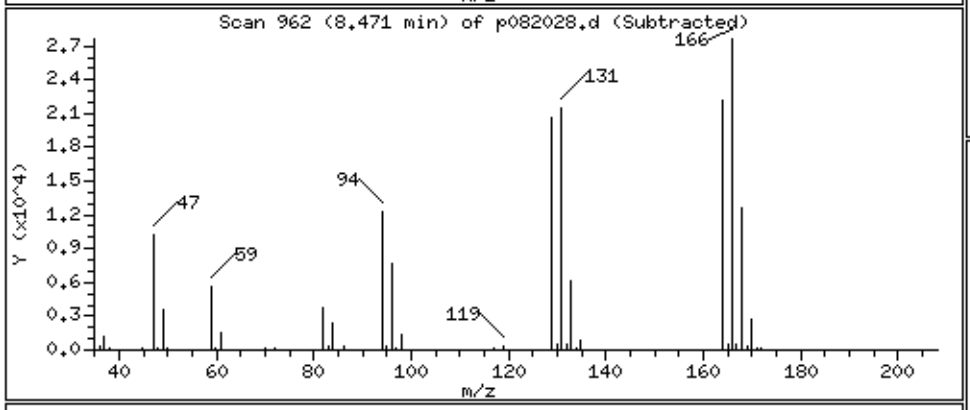
Column phase: RTX-624

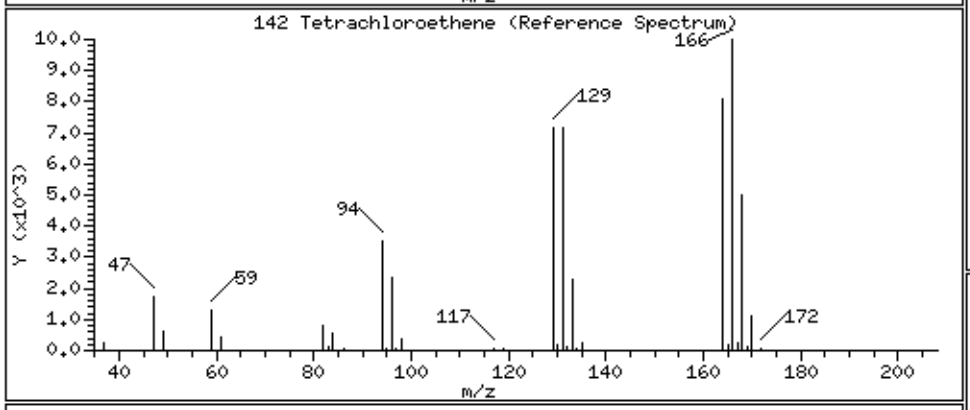
Column diameter: 0.25

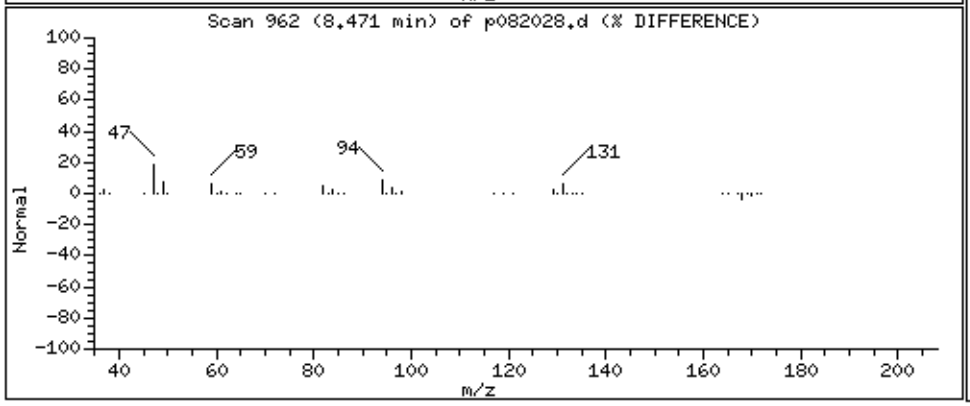
142 Tetrachloroethene

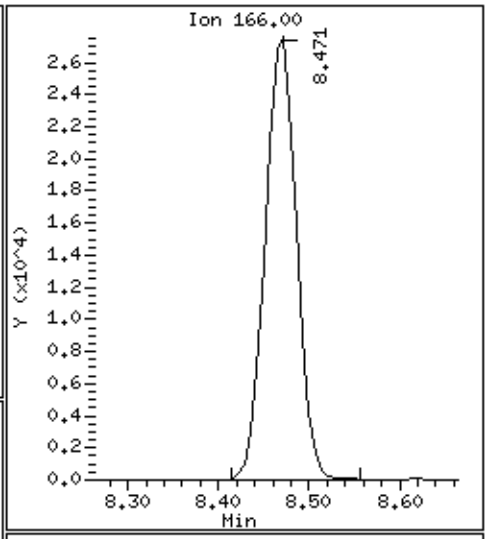
Concentration: 15.334 PPBV

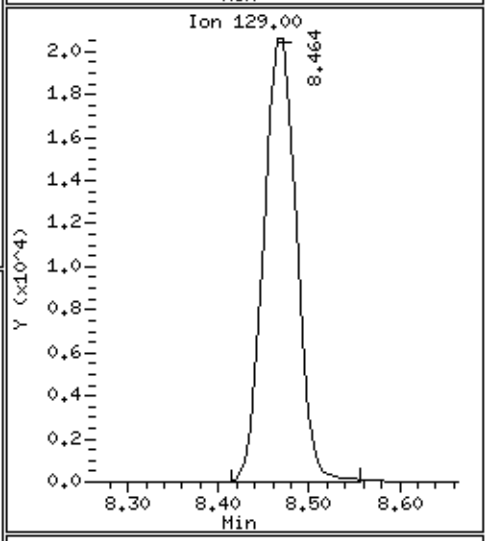


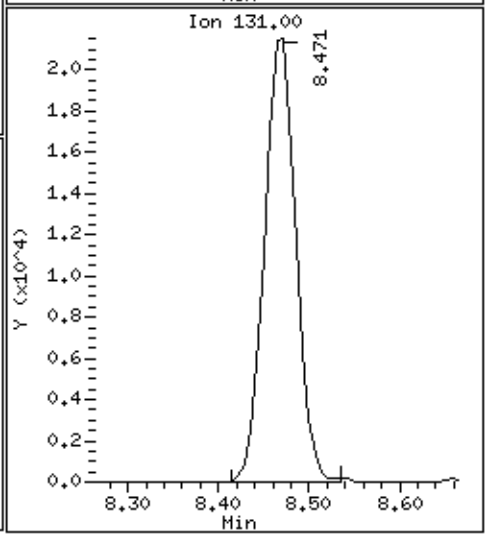












Data File: /chem/msdp.i/20AUG21.b/p082028.d

Date : 21-AUG-2021 03:42

Client ID:

Instrument: msdp.i

Sample Info: 200ml 00239

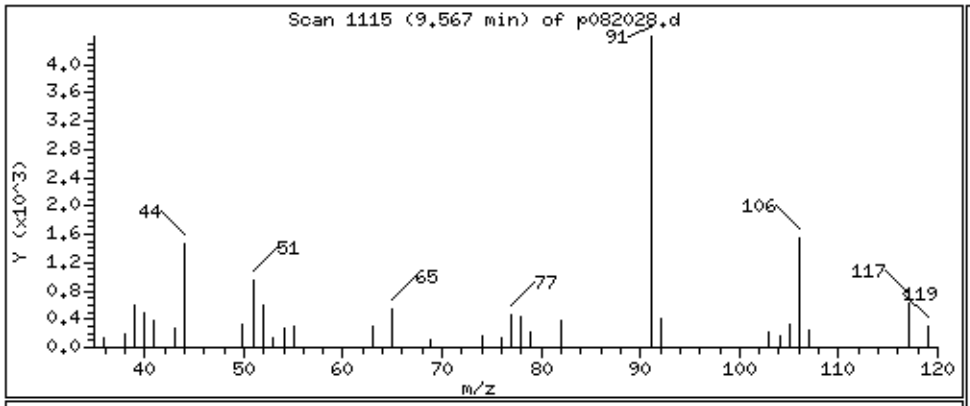
Operator: kk

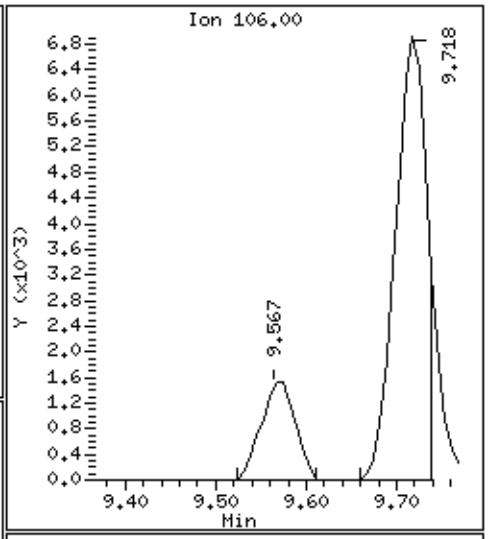
Column phase: RTX-624

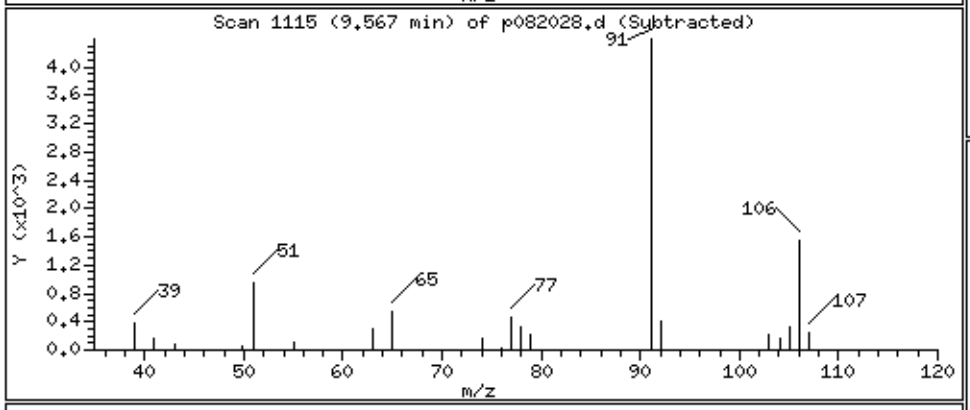
Column diameter: 0.25

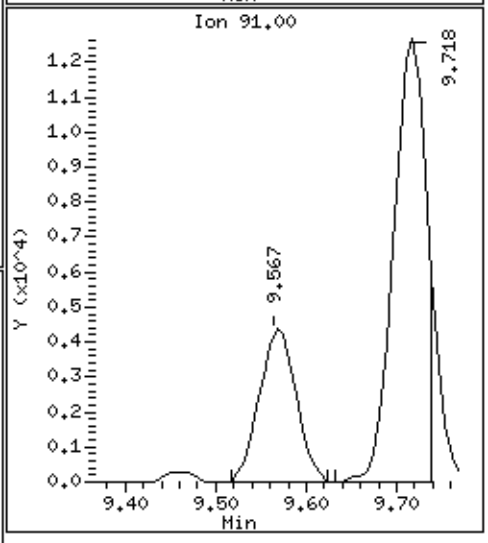
155 Ethyl Benzene

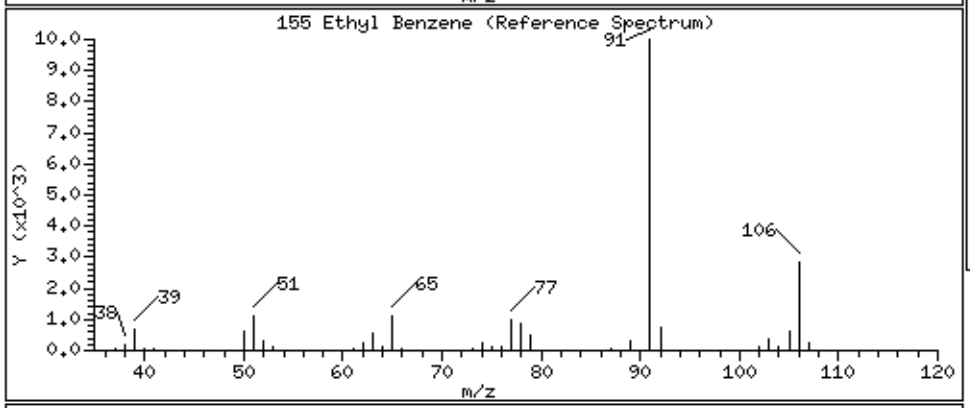
Concentration: 1.014 PPBV

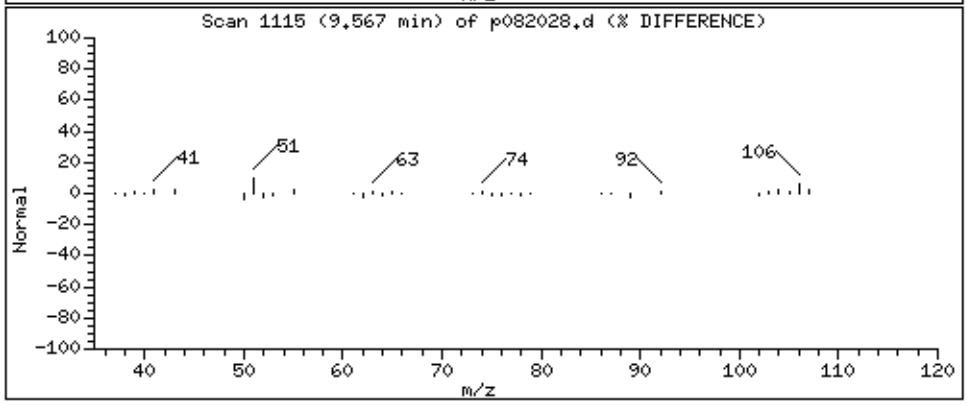












Data File: /chem/msdp.i/20AUG21.b/p082028.d

Date : 21-AUG-2021 03:42

Client ID:

Instrument: msdp.i

Sample Info: 200ml 00239

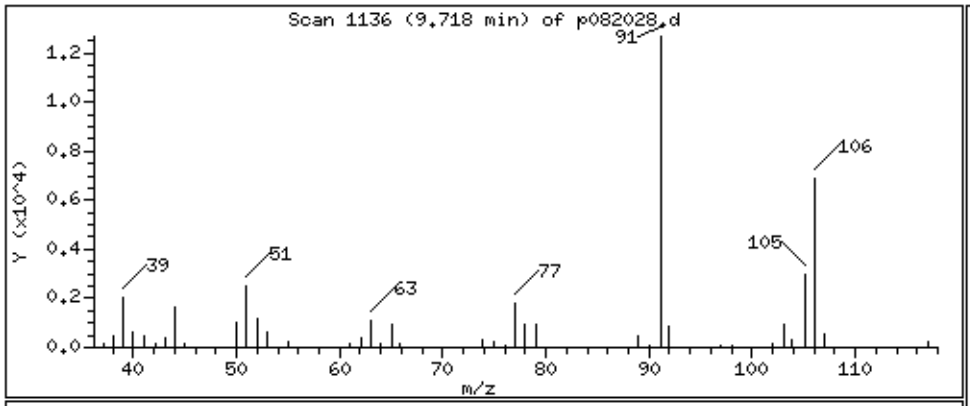
Operator: kk

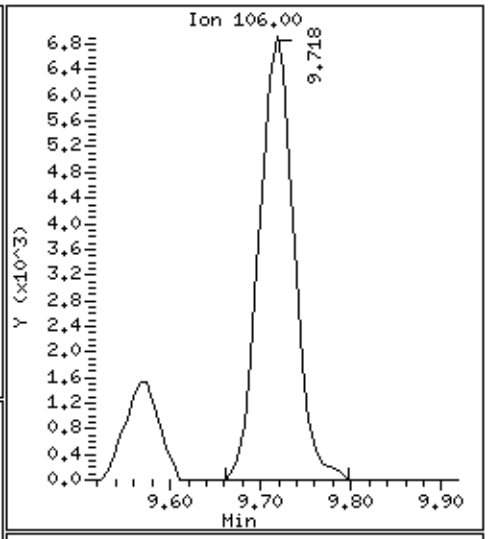
Column phase: RTX-624

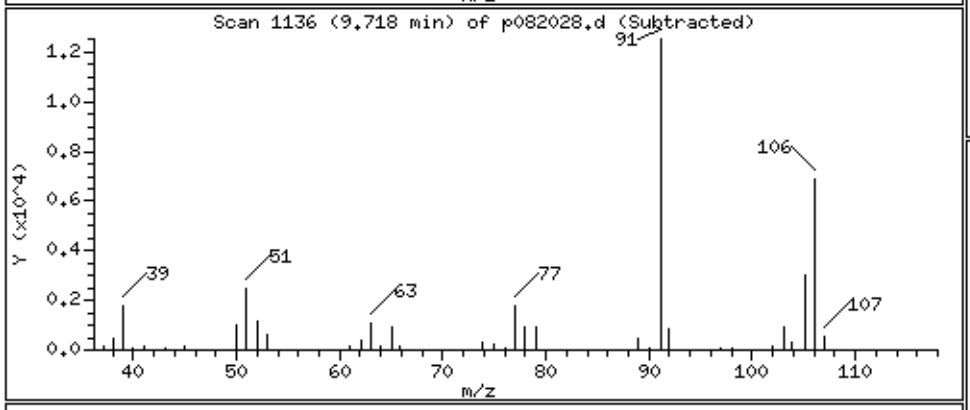
Column diameter: 0.25

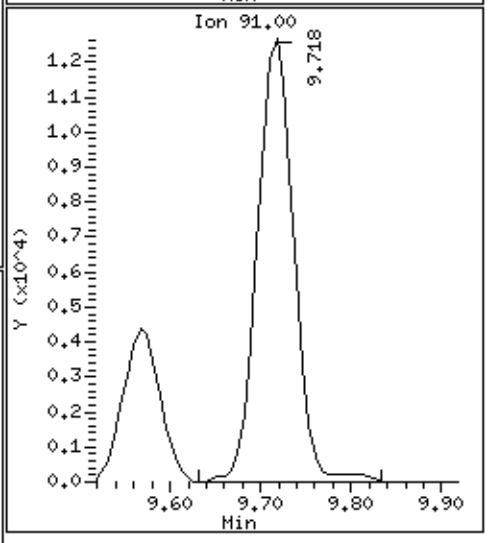
158 m,p-Xylene

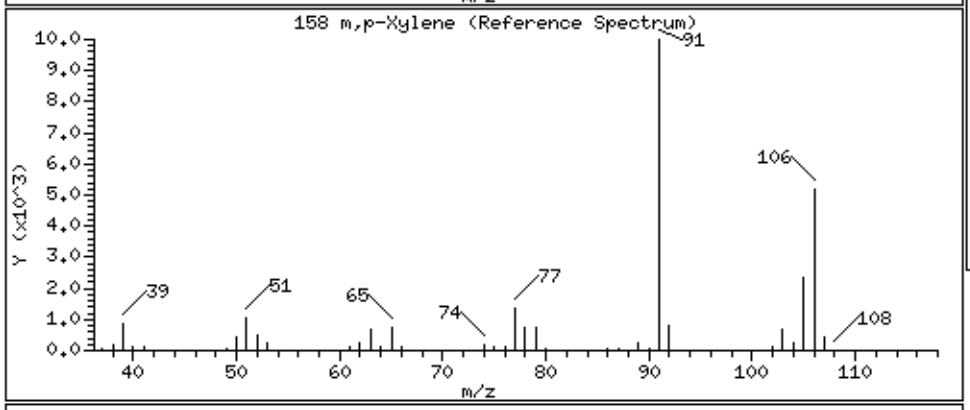
Concentration: 3.731 PPBV

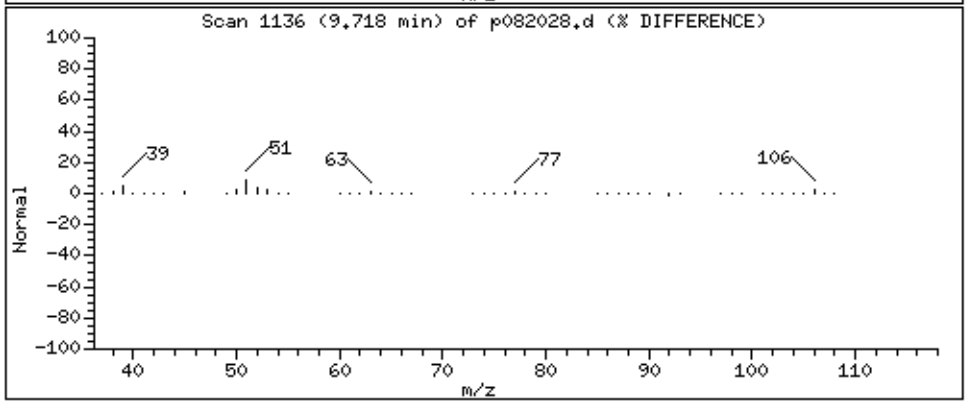












Data File: /chem/msdp.i/20AUG21.b/p082028.d

Date : 21-AUG-2021 03:42

Client ID:

Instrument: msdp.i

Sample Info: 200ml 00239

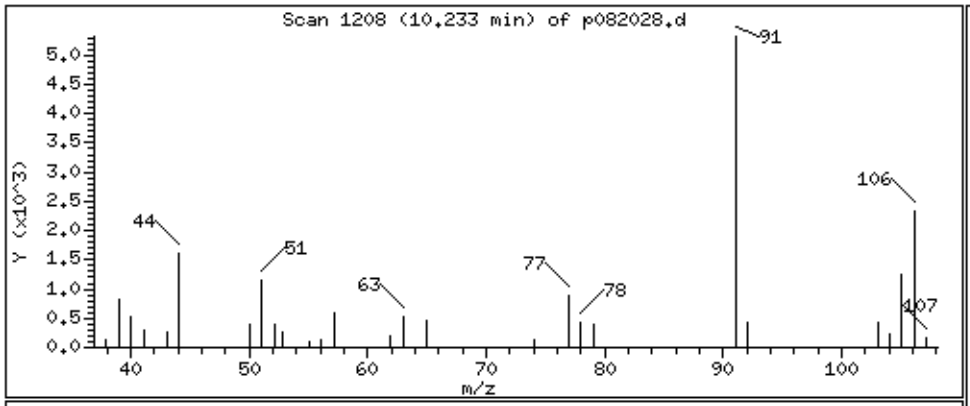
Operator: kk

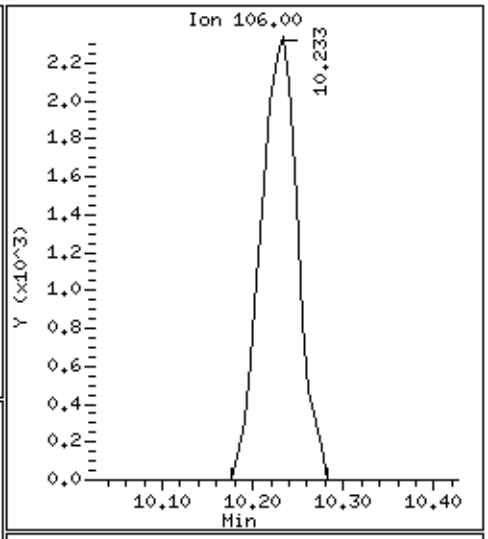
Column phase: RTX-624

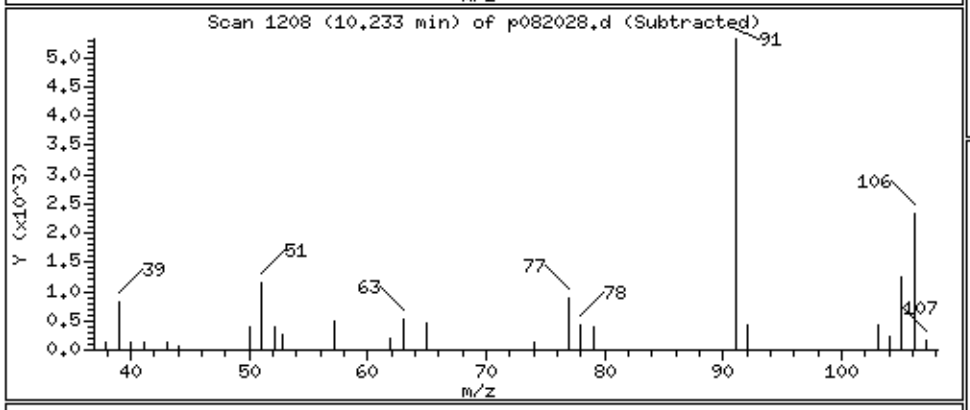
Column diameter: 0.25

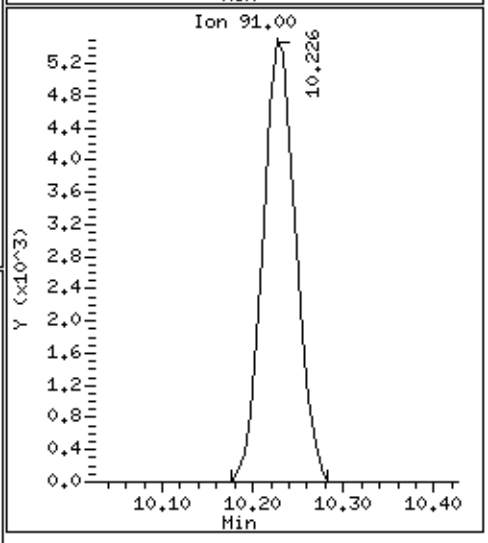
164 o-Xylene

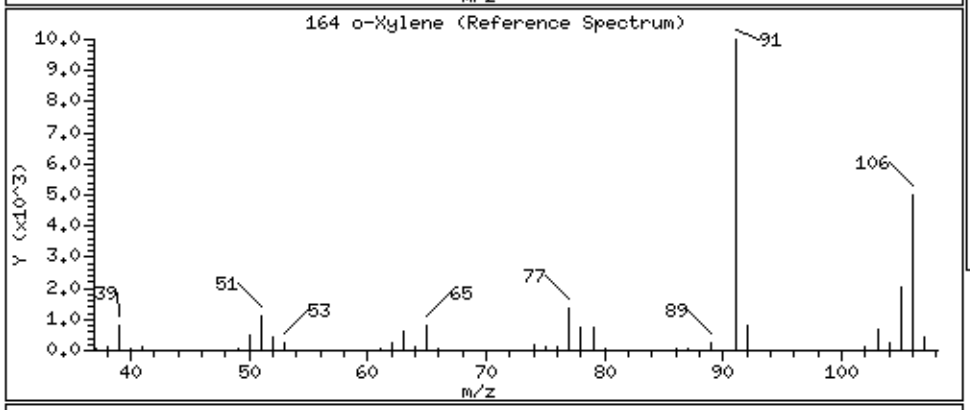
Concentration: 1.408 PPBV

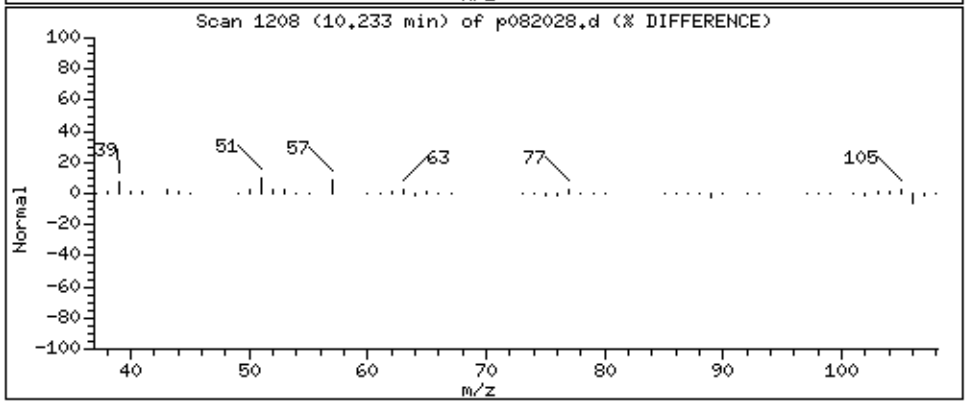












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Client Sample ID: SG-VW59B-02

Lab ID#: 2108390-19A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p082029**	**Date of Collection:**	**8/17/21 10:43:00 AM**
Dil. Factor:	**2.10**	**Date of Analysis:**	**8/21/21 04:11 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1,2-Tetrachloroethane	4.2	Not Detected	29	Not Detected
1,1,1-Trichloroethane	1.0	Not Detected	5.7	Not Detected
1,1,2,2-Tetrachloroethane	1.0	Not Detected	7.2	Not Detected
1,1,2-Trichloroethane	1.0	Not Detected	5.7	Not Detected
1,1-Dichloroethane	1.0	Not Detected	4.2	Not Detected
1,1-Dichloroethene	1.0	Not Detected	4.2	Not Detected
1,1-Difluoroethane	4.2	Not Detected	11	Not Detected
1,2,3-Trichloropropane	4.2	Not Detected	25	Not Detected
1,2,4-Trichlorobenzene	4.2	Not Detected	31	Not Detected
1,2,4-Trimethylbenzene	1.0	Not Detected	5.2	Not Detected
1,2-Dibromo-3-chloropropane	4.2	Not Detected	40	Not Detected
1,2-Dibromoethane (EDB)	1.0	Not Detected	8.1	Not Detected
1,2-Dichlorobenzene	1.0	Not Detected	6.3	Not Detected
1,2-Dichloroethane	1.0	Not Detected	4.2	Not Detected
1,2-Dichloropropane	1.0	Not Detected	4.8	Not Detected
1,3,5-Trimethylbenzene	1.0	Not Detected	5.2	Not Detected
1,3-Butadiene	1.0	Not Detected	2.3	Not Detected
1,3-Dichlorobenzene	1.0	Not Detected	6.3	Not Detected
1,4-Dichlorobenzene	1.0	Not Detected	6.3	Not Detected
1,4-Dioxane	4.2	Not Detected	15	Not Detected
2,2,4-Trimethylpentane	1.0	Not Detected	4.9	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.2	Not Detected	12	Not Detected
2-Hexanone	4.2	Not Detected	17	Not Detected
2-Propanol	4.2	Not Detected	10	Not Detected
3-Chloropropene	4.2	Not Detected	13	Not Detected
4-Ethyltoluene	1.0	Not Detected	5.2	Not Detected
4-Methyl-2-pentanone	1.0	Not Detected	4.3	Not Detected
Acetone	10	Not Detected	25	Not Detected
Acrolein	4.2	Not Detected	9.6	Not Detected
Acrylonitrile	4.2	Not Detected	9.1	Not Detected
alpha-Chlorotoluene	1.0	Not Detected	5.4	Not Detected
Benzene	1.0	Not Detected	3.4	Not Detected
Bromodichloromethane	1.0	Not Detected	7.0	Not Detected
Bromoform	1.0	Not Detected	11	Not Detected
Bromomethane	10	Not Detected	41	Not Detected
Carbon Disulfide	4.2	Not Detected	13	Not Detected
Carbon Tetrachloride	1.0	Not Detected	6.6	Not Detected
Chlorobenzene	1.0	Not Detected	4.8	Not Detected
Chloroethane	4.2	Not Detected	11	Not Detected
Chloroform	1.0	Not Detected	5.1	Not Detected
Chloromethane	10	Not Detected	22	Not Detected
cis-1,2-Dichloroethene	1.0	Not Detected	4.2	Not Detected

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Client Sample ID: SG-VW59B-02

Lab ID#: 2108390-19A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p082029**	**Date of Collection:**	**8/17/21 10:43:00 AM**
Dil. Factor:	**2.10**	**Date of Analysis:**	**8/21/21 04:11 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,3-Dichloropropene	1.0	Not Detected	4.8	Not Detected
Cumene	1.0	Not Detected	5.2	Not Detected
Cyclohexane	1.0	Not Detected	3.6	Not Detected
Dibromochloromethane	1.0	Not Detected	8.9	Not Detected
Dibromomethane	4.2	Not Detected	30	Not Detected
Ethanol	10	14	20	27
Ethyl Acetate	4.2	Not Detected	15	Not Detected
Ethyl Benzene	1.0	Not Detected	4.6	Not Detected
Ethyl-tert-butyl ether	4.2	Not Detected	18	Not Detected
Freon 11	1.0	Not Detected	5.9	Not Detected
Freon 12	1.0	5.3	5.2	26
Freon 113	1.0	Not Detected	8.0	Not Detected
Freon 114	1.0	Not Detected	7.3	Not Detected
Freon 134a	4.2	Not Detected	18	Not Detected
Heptane	1.0	Not Detected	4.3	Not Detected
Hexachlorobutadiene	4.2	Not Detected	45	Not Detected
Hexachloroethane	4.2	Not Detected	41	Not Detected
Hexane	1.0	36	3.7	130
Iodomethane	10	Not Detected	61	Not Detected
Isopropyl ether	4.2	Not Detected	18	Not Detected
m,p-Xylene	1.0	2.5	4.6	11
Methyl tert-butyl ether	4.2	Not Detected	15	Not Detected
Methylene Chloride	10	Not Detected	36	Not Detected
Naphthalene	2.1	Not Detected	11	Not Detected
o-Xylene	1.0	1.1	4.6	4.7
Propylbenzene	1.0	Not Detected	5.2	Not Detected
Propylene	4.2	Not Detected	7.2	Not Detected
Styrene	1.0	Not Detected	4.5	Not Detected
tert-Amyl methyl ether	4.2	Not Detected	18	Not Detected
tert-Butyl alcohol	4.2	Not Detected	13	Not Detected
Tetrachloroethene	1.0	45	7.1	300
Tetrahydrofuran	1.0	Not Detected	3.1	Not Detected
Toluene	1.0	1.7	4.0	6.5
TPH ref. to Gasoline (MW=100)	100	Not Detected	430	Not Detected
trans-1,2-Dichloroethene	1.0	Not Detected	4.2	Not Detected
trans-1,3-Dichloropropene	1.0	Not Detected	4.8	Not Detected
Trichloroethene	1.0	Not Detected	5.6	Not Detected
Vinyl Acetate	4.2	Not Detected	15	Not Detected
Vinyl Bromide	4.2	Not Detected	18	Not Detected
Vinyl Chloride	1.0	Not Detected	2.7	Not Detected

Container Type: 1 Liter Summa Canister

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Client Sample ID: SG-VW59B-02

Lab ID#: 2108390-19A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p082029**	**Date of Collection:**	**8/17/21 10:43:00 AM**
Dil. Factor:	**2.10**	**Date of Analysis:**	**8/21/21 04:11 AM**

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	110	70-130
4-Bromofluorobenzene	102	70-130

US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/20AUG21.b/p082029.d
Lab Smp Id: 2108390-19A
Inj Date : 21-AUG-2021 04:11
Operator : kk Inst ID: msdp.i
Smp Info : 200ml 1L1817
Misc Info : 6.0 Hg->10 psi
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/20AUG21.b/p21q0519a.m
Meth Date : 20-Aug-2021 12:59 p5fl Quant Type: ISTD
Cal Date : 19-MAY-2021 19:45 Cal File: p051915.d
Als bottle: 11
Dil Factor: 2.10000
Integrator: HP RTE Compound Sublist: AEC25677.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE		(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 90 Bromochloromethane							CAS #: 74-97-5	
5.785	5.785 (1.000)	130	104316	25.0000			80.00- 120.00	100.00
5.785	5.785 (1.000)	128	83019				48.23- 108.23	79.58
5.785	5.778 (1.000)	49	242902				150.57- 210.57	232.85
* 108 1,4-Difluorobenzene							CAS #: 540-36-3	
6.666	6.659 (1.000)	114	370394	25.0000			80.00- 120.00	100.00
6.666	6.659 (1.000)	88	52016				0.00- 45.71	14.04
* 153 Chlorobenzene-d5							CAS #: 3114-55-4	
9.460	9.460 (1.000)	117	382215	25.0000			80.00- 120.00	100.00
9.460	9.460 (1.000)	82	196095				23.78- 83.78	51.30
$ 104 1,2-Dichloroethane-d4							CAS #: 17060-07-0	
6.315	6.315 (1.092)	65	159023	27.6229	27.623		80.00- 120.00	100.00
6.315	6.315 (1.092)	67	74122				27.21- 87.21	46.61
$ 134 Toluene-d8							CAS #: 2037-26-5	
7.891	7.891 (1.184)	98	408957	25.4264	25.426		80.00- 120.00	100.00
7.891	7.891 (1.184)	70	44563				0.00- 40.44	10.90

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 134 Toluene-d8 (continued)							
7.891	7.891 (1.184)	100	260820			34.95- 94.95	63.78
$ 170 4-Bromofluorobenzene					CAS #: 460-00-4		
10.921	10.921 (1.154)	174	250956	25.5690	25.569	80.00- 120.00	100.00
10.921	10.914 (1.154)	95	293227			95.92- 155.92	116.84
10.921	10.921 (1.154)	176	239216			66.89- 126.89	95.32
8 Freon 12					CAS #: 75-71-8		
1.730	1.717 (0.299)	85	23732	2.53655	5.327	80.00- 120.00	100.00
1.730	1.717 (0.299)	87	7657			2.37- 62.37	32.27
39 Ethanol					CAS #: 64-17-5		
3.257	3.242 (0.563)	46	7021	6.78688	14.252	80.00- 120.00	100.00
3.264	3.285 (0.564)	45	20291			511.19- 571.19	289.01
67 Hexane					CAS #: 110-54-3		
4.696	4.697 (0.812)	57	178623	17.3820	36.502	80.00- 120.00	100.00
4.696	4.697 (0.812)	43	141853			37.52- 97.52	79.42
4.696	4.697 (0.812)	86	17611			0.00- 41.48	9.86
137 Toluene					CAS #: 108-88-3		
7.956	7.956 (1.193)	91	13929	0.82599	1.734	80.00- 120.00	100.00
7.956	7.956 (1.193)	92	8165			28.38- 88.38	58.62
142 Tetrachloroethene					CAS #: 127-18-4		
8.471	8.464 (0.895)	166	185032	21.2412	44.606	80.00- 120.00	100.00
8.471	8.464 (0.895)	129	144189			47.84- 107.84	77.93
8.471	8.464 (0.895)	131	137300			45.29- 105.29	74.20
158 m,p-Xylene					CAS #: 108-38-3		
9.718	9.718 (1.027)	106	11988	1.20609	2.533	80.00- 120.00	100.00
9.718	9.718 (1.027)	91	23664			163.73- 223.73	197.40
164 o-Xylene					CAS #: 95-47-6		
10.226	10.226 (1.081)	106	4897	0.51422	1.080	80.00- 120.00	100.00
10.226	10.226 (1.081)	91	9888			177.45- 237.45	201.91

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p082029.d
Lab Smp Id: 2108390-19A
Analysis Type: VOA
Quant Type: ISTD
Operator: kk
Method File: /chem/msdp.i/20AUG21.b/p21q0519a.m
Misc Info: 6.0 Hg->10 psi

Calibration Date: 20-AUG-2021
Calibration Time: 11:13
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	109375	65625	153125	104316	-4.63
108 1,4-Difluorobenze	406799	244079	569519	370394	-8.95
153 Chlorobenzene-d5	400841	240505	561177	382215	-4.65

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.79	5.46	6.12	5.79	-0.00
108 1,4-Difluorobenze	6.66	6.33	6.99	6.67	0.10
153 Chlorobenzene-d5	9.46	9.13	9.79	9.46	-0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 24-Aug-2021 12:06

US32TAR1

RECOVERY REPORT

Client Name: Client SDG: 20AUG21
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 2108390-19A
Level: LOW Operator: kk
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT20_new.spk Quant Type: ISTD
Sublist File: AEC25677.sub
Method File: /chem/msdp.i/20AUG21.b/p21q0519a.m
Misc Info: 6.0 Hg->10 psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 104 1,2-Dichloroethan	25.000	27.623	110.49	70-130
$ 134 Toluene-d8	25.000	25.426	101.71	70-130
$ 170 4-Bromofluorobenz	25.000	25.569	102.28	70-130

Data File: /chem/msdp.i/20AUG21.b/p082029.d

Date : 21-AUG-2021 04:11

Client ID:

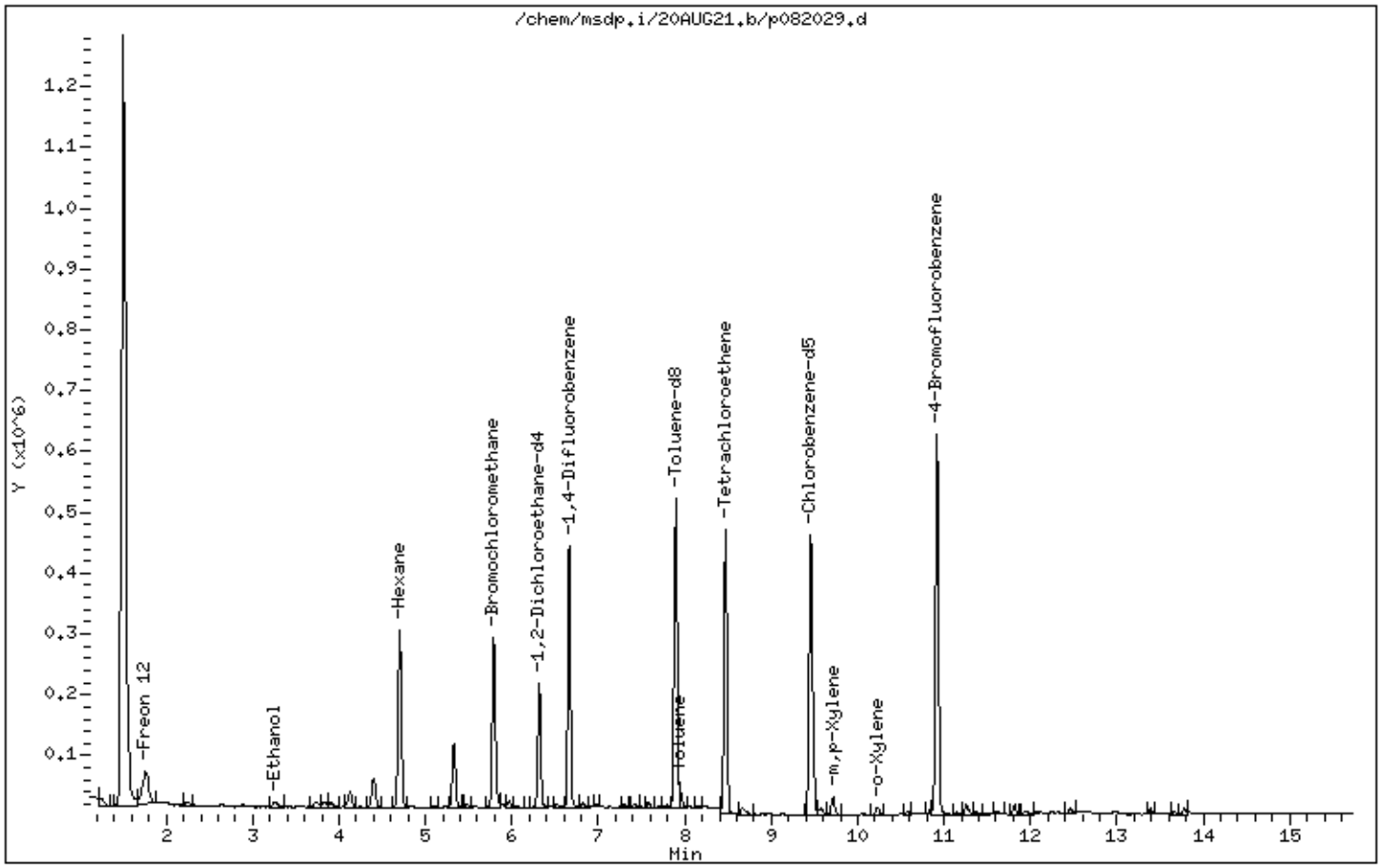
Instrument: msdp.i

Sample Info: 200ml 1L1817

Operator: kk

Column phase: RTX-624

Column diameter: 0.25



Data File: /chem/msdp.i/20AUG21.b/p082029.d

Date : 21-AUG-2021 04:11

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1L1817

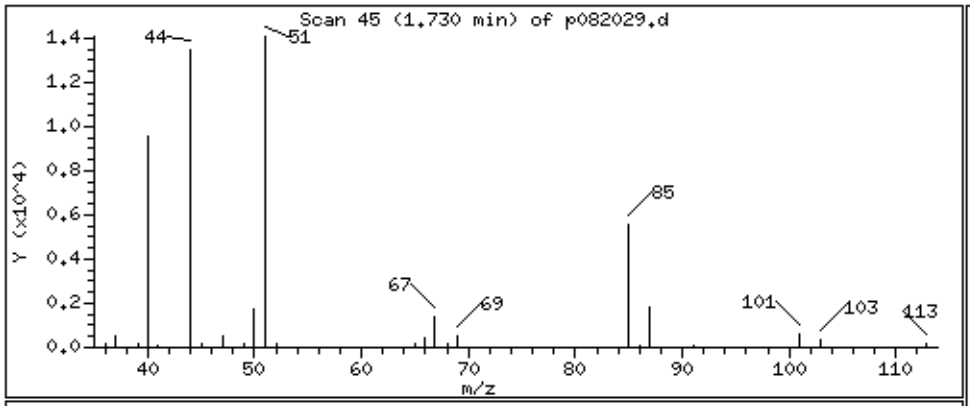
Operator: kk

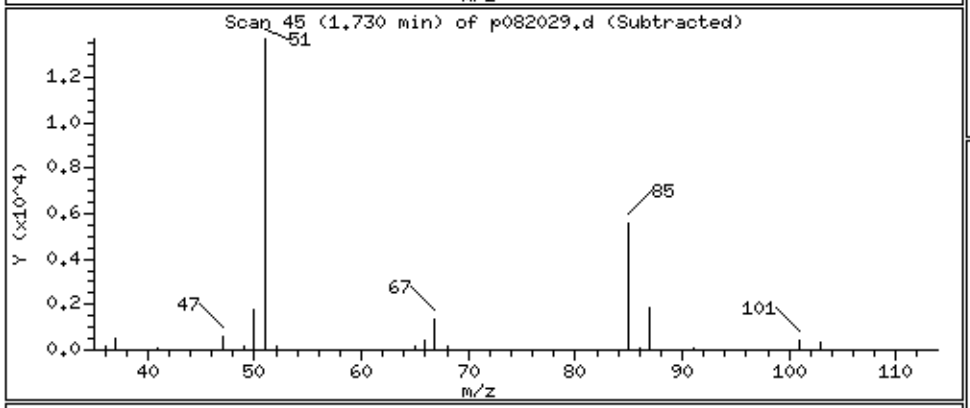
Column phase: RTX-624

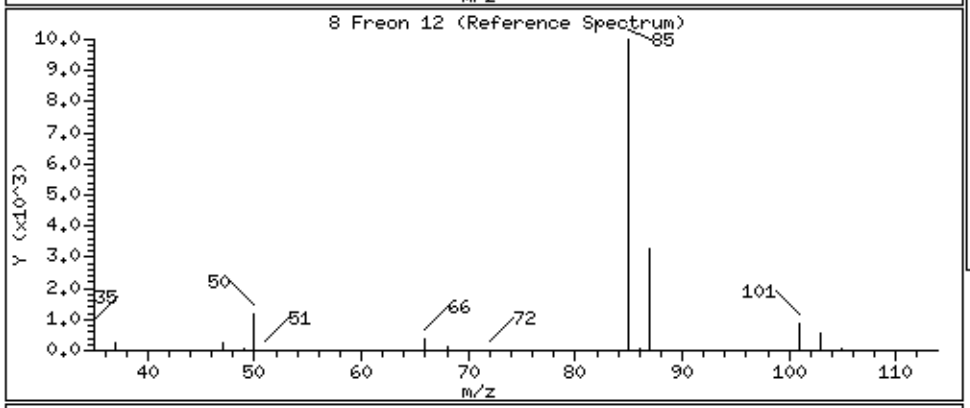
Column diameter: 0.25

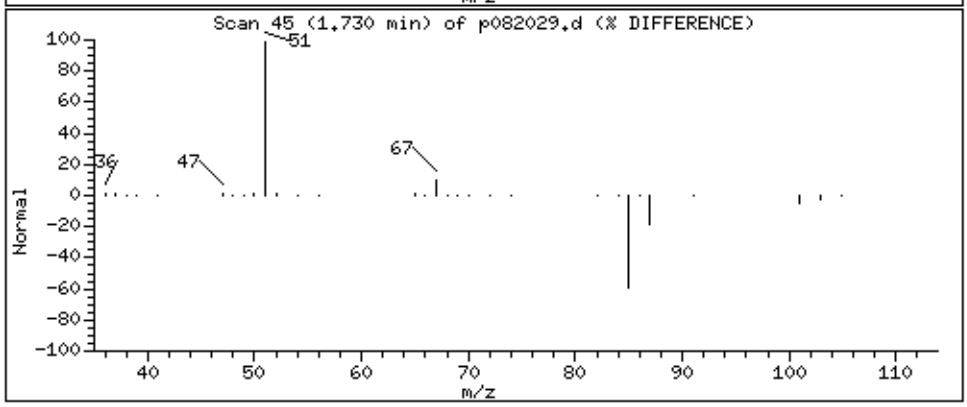
8 Freon 12

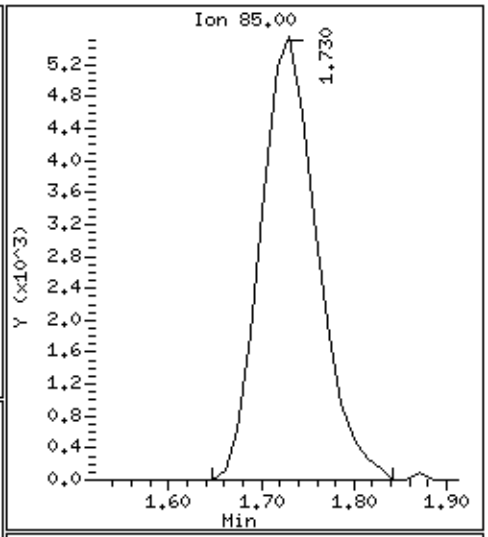
Concentration: 5.327 PPBV

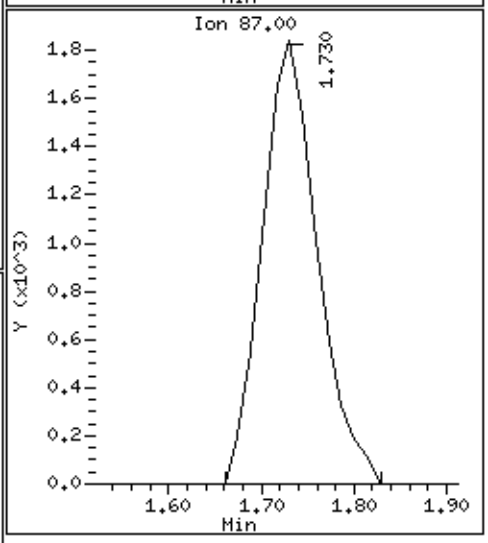












Data File: /chem/msdp.i/20AUG21.b/p082029.d

Date : 21-AUG-2021 04:11

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1L1817

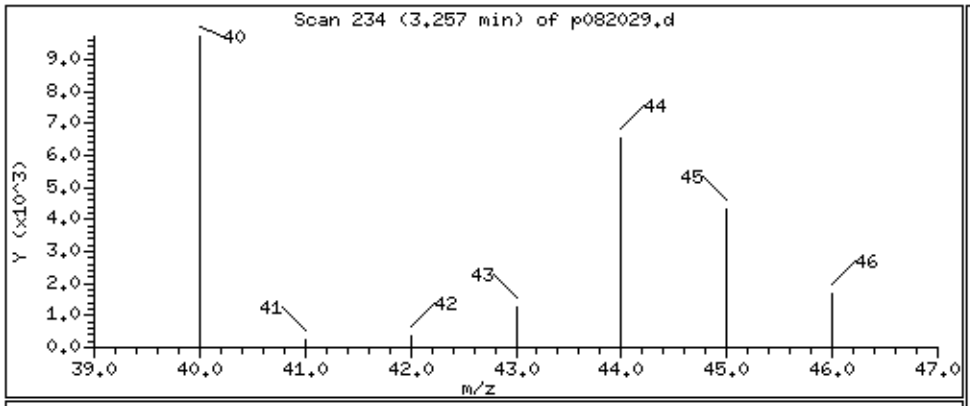
Operator: kk

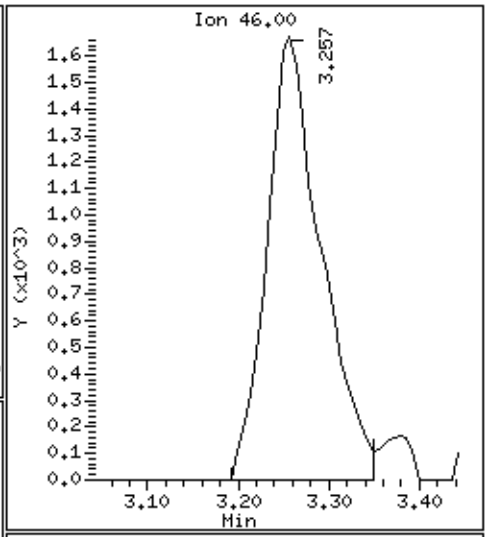
Column phase: RTX-624

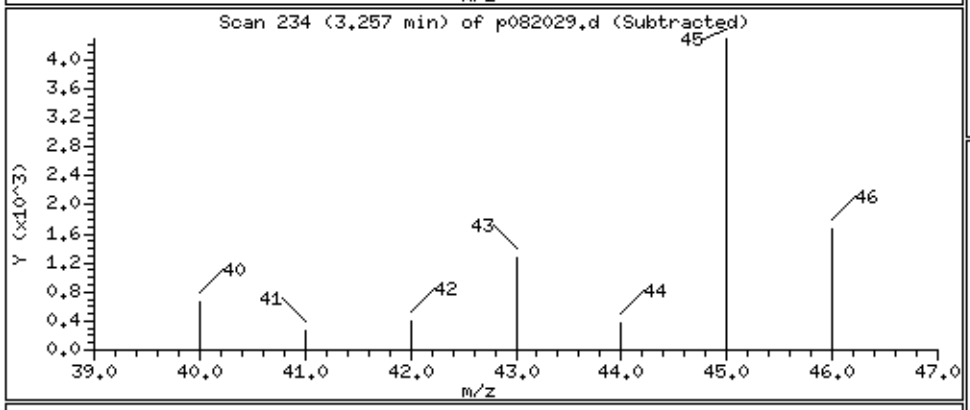
Column diameter: 0.25

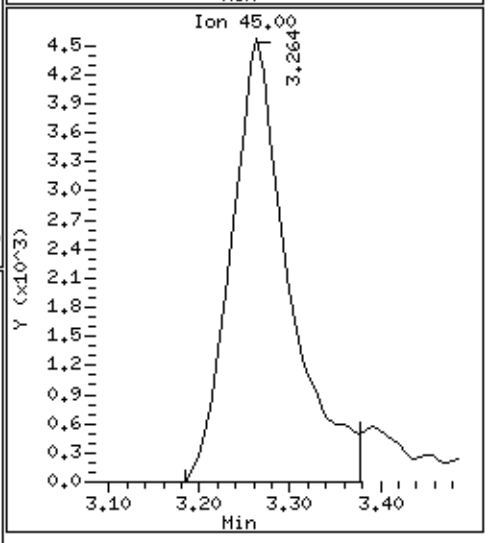
39 Ethanol

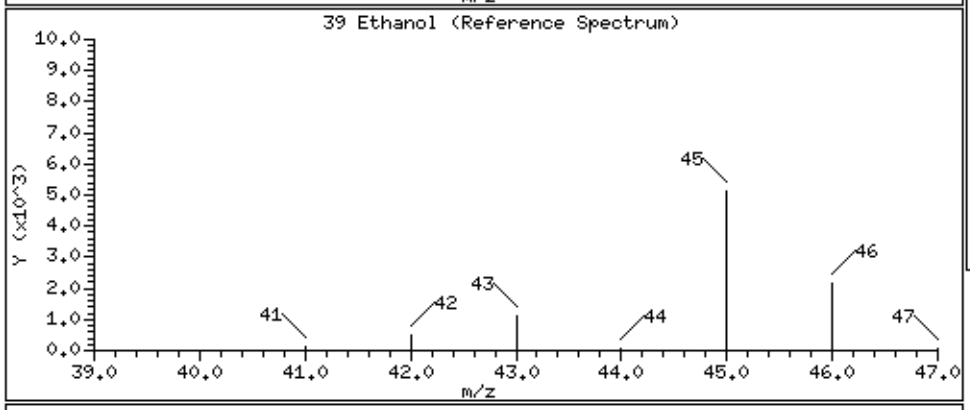
Concentration: 14.252 PPBV

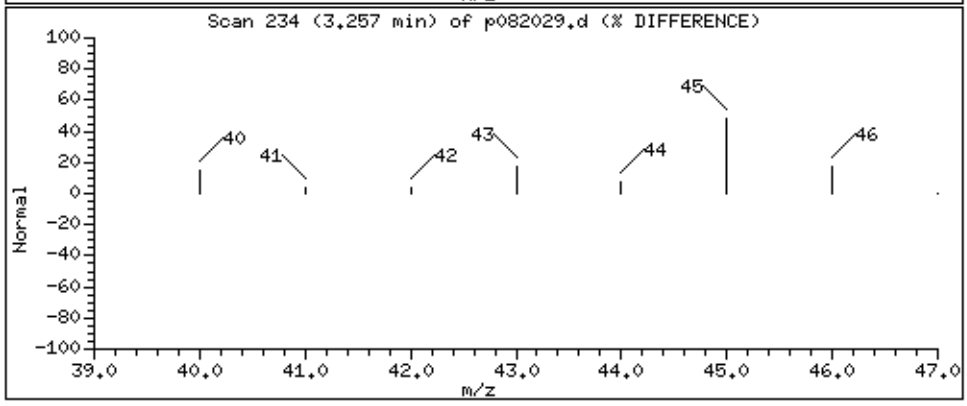












Data File: /chem/msdp.i/20AUG21.b/p082029.d

Date : 21-AUG-2021 04:11

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1L1817

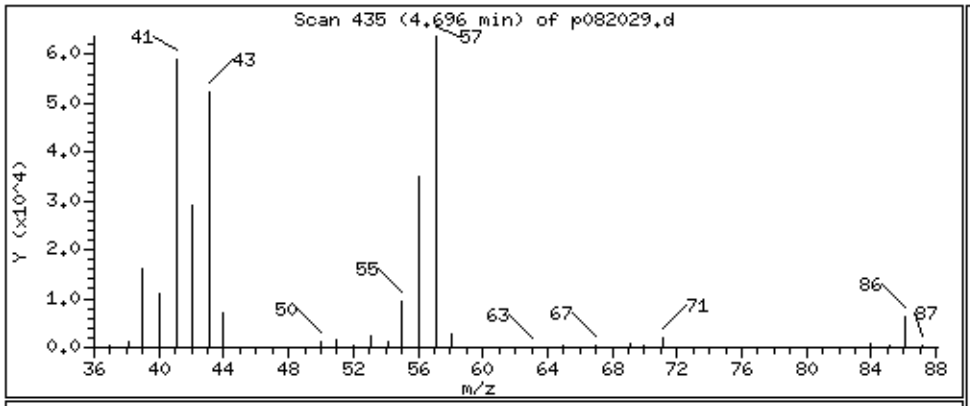
Operator: kk

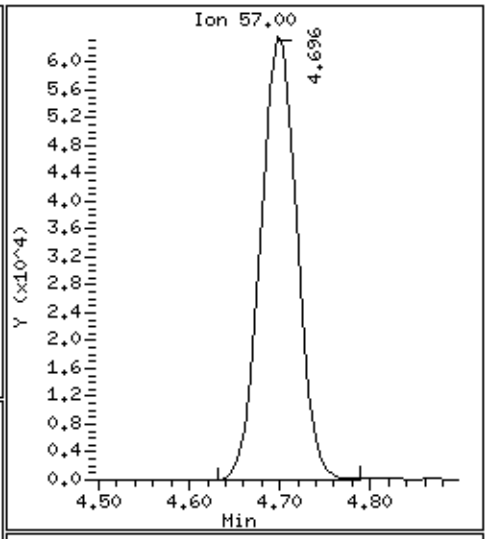
Column phase: RTX-624

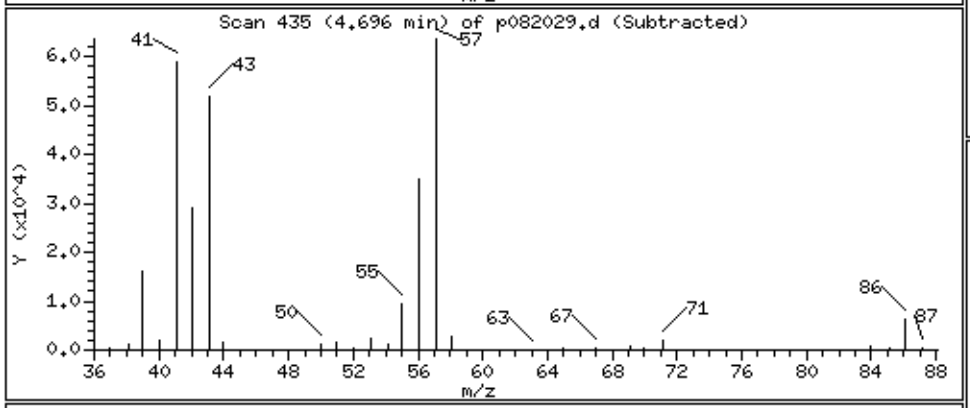
Column diameter: 0.25

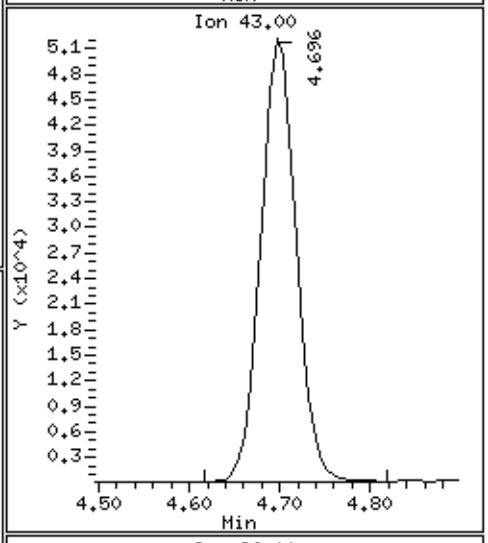
67 Hexane

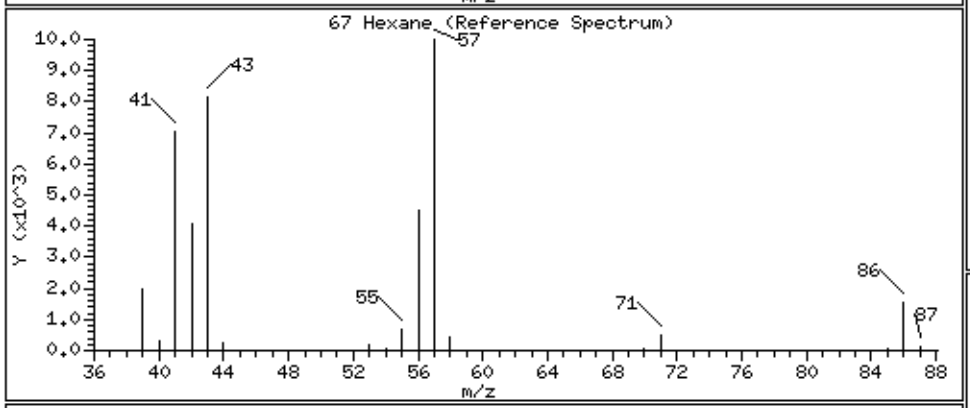
Concentration: 36.502 PPBV

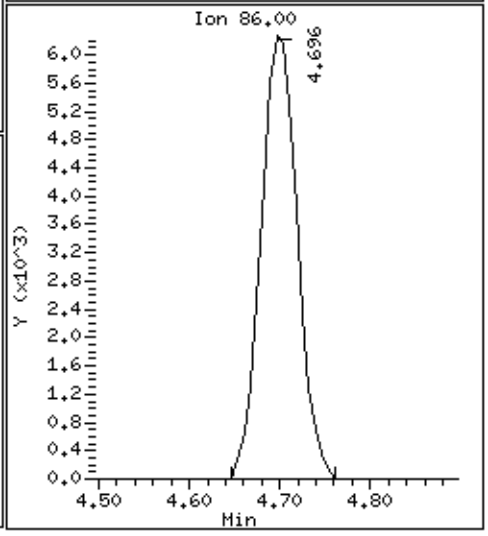


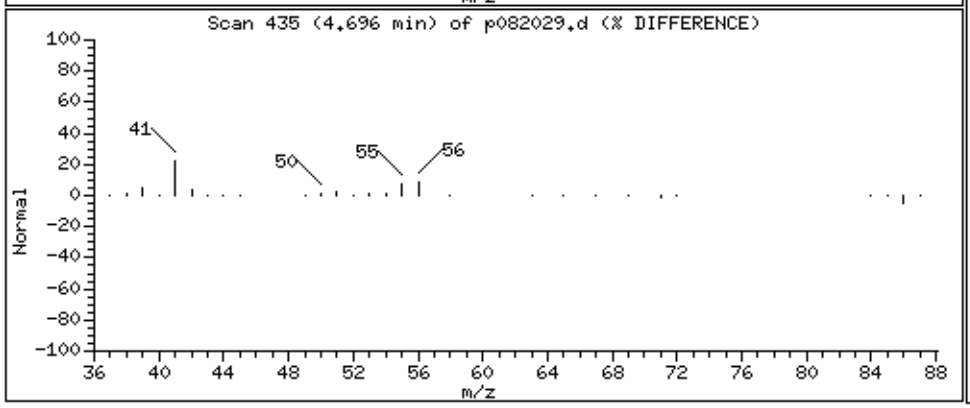












Data File: /chem/msdp.i/20AUG21.b/p082029.d

Page 5

Date : 21-AUG-2021 04:11

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1L1817

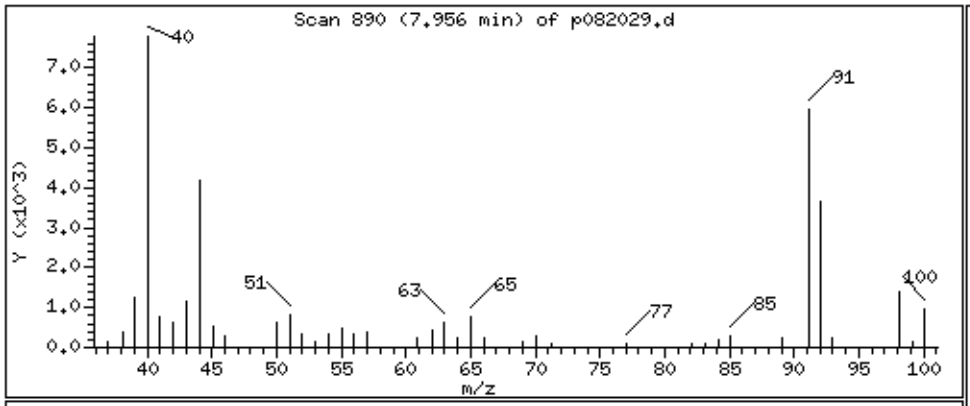
Operator: kk

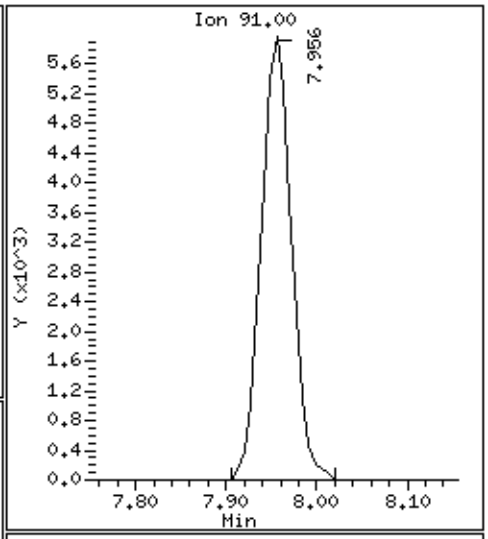
Column phase: RTX-624

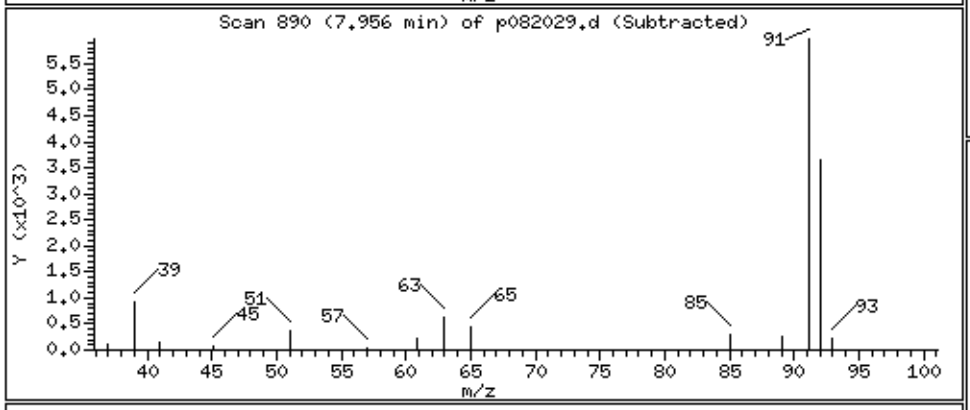
Column diameter: 0.25

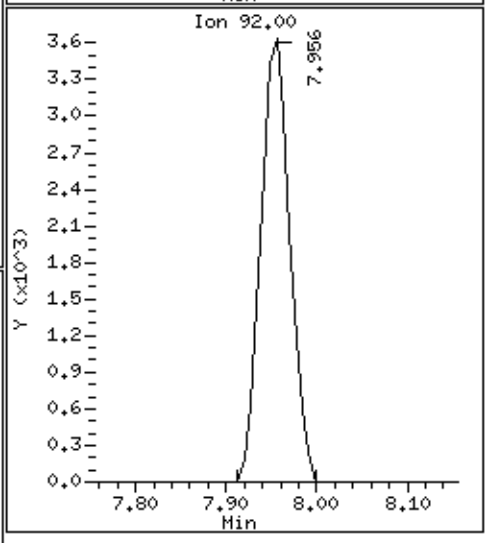
137 Toluene

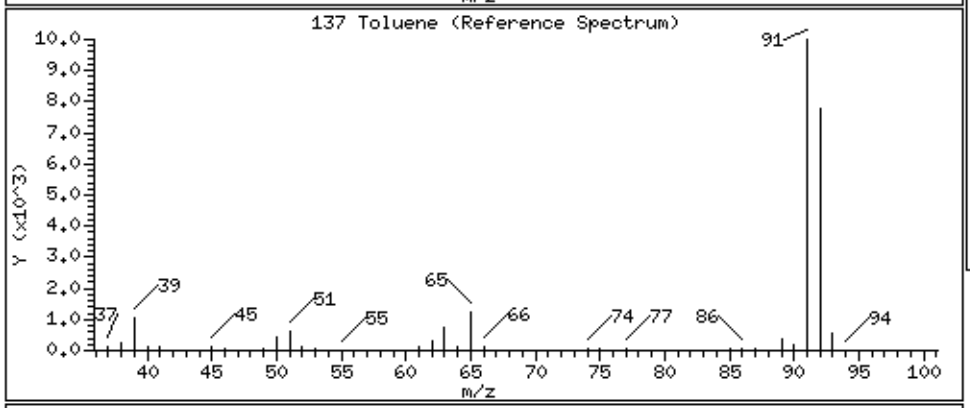
Concentration: 1.734 PPBV

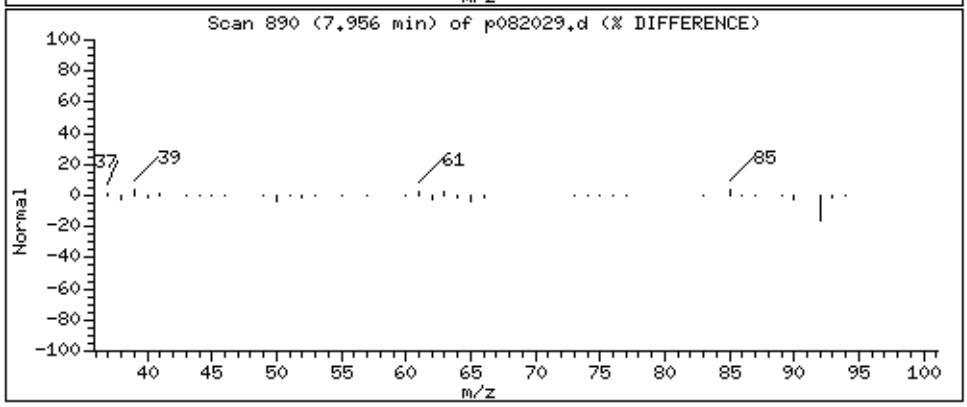












Data File: /chem/msdp.i/20AUG21.b/p082029.d

Date : 21-AUG-2021 04:11

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1L1817

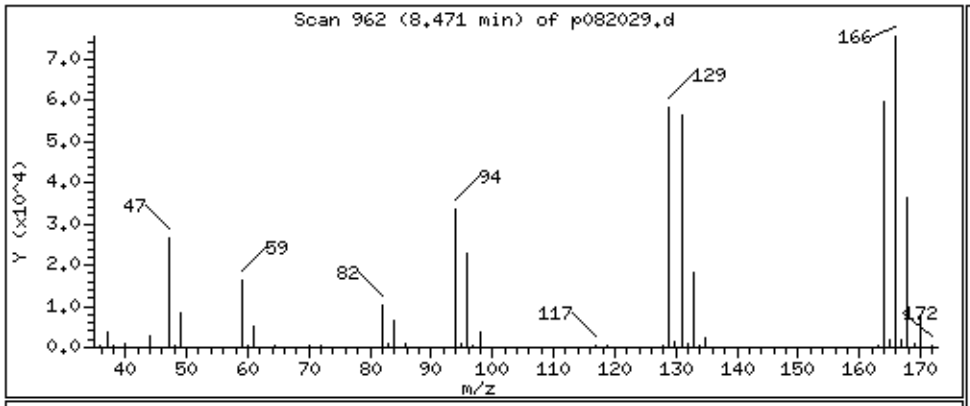
Operator: kk

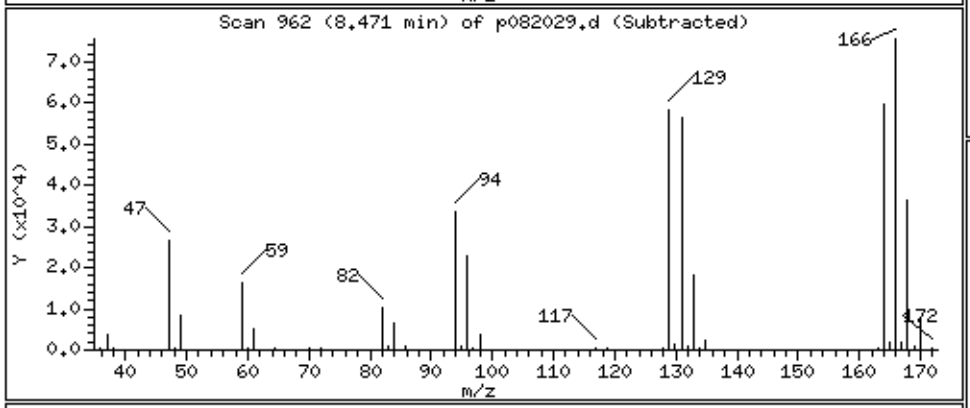
Column phase: RTX-624

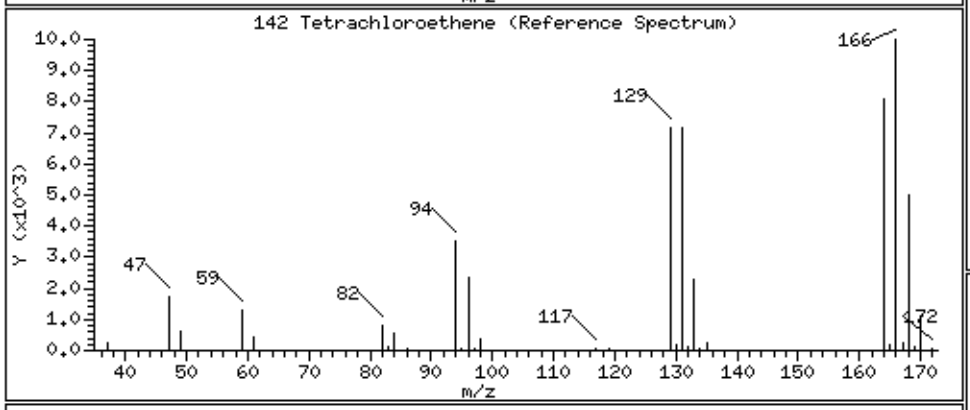
Column diameter: 0.25

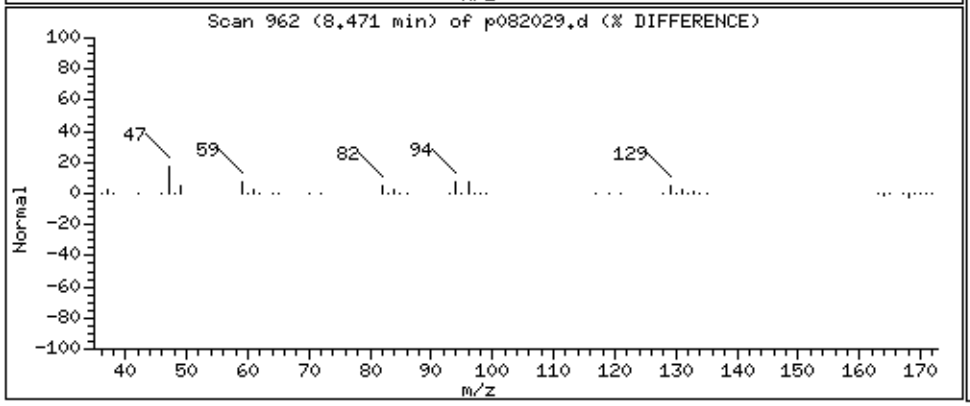
142 Tetrachloroethene

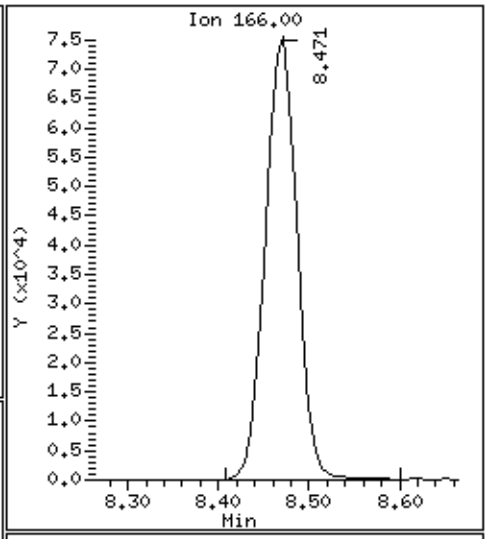
Concentration: 44.606 PPBV

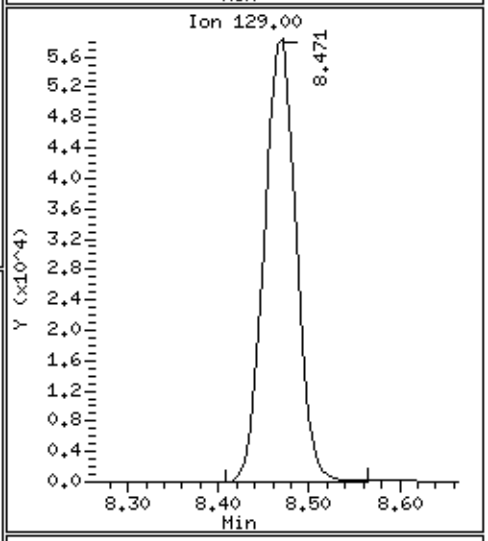


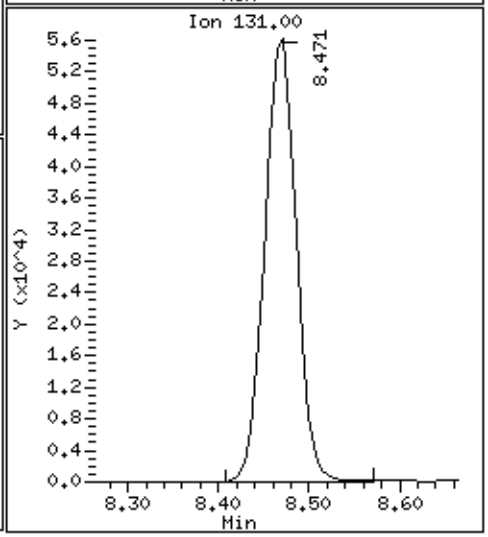












Data File: /chem/msdp.i/20AUG21.b/p082029.d

Date : 21-AUG-2021 04:11

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1L1817

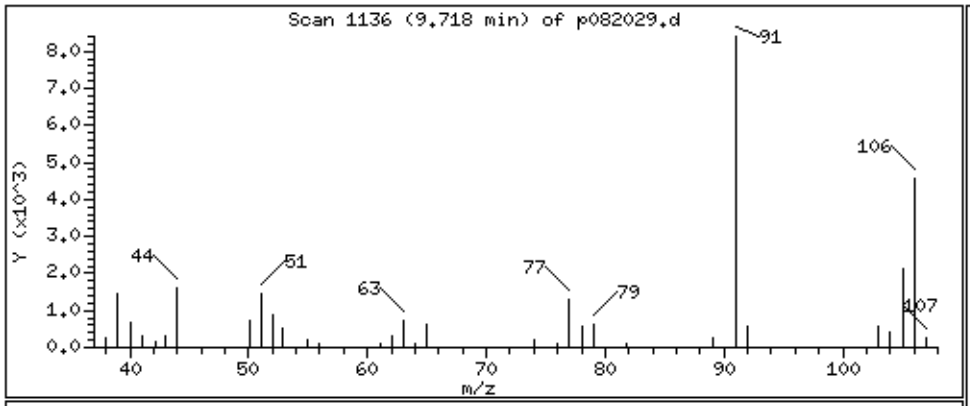
Operator: kk

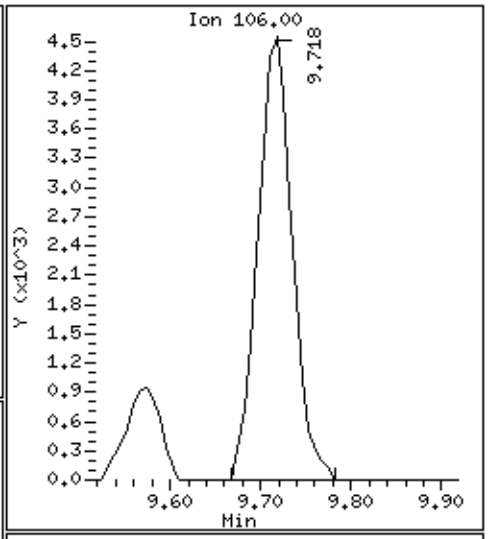
Column phase: RTX-624

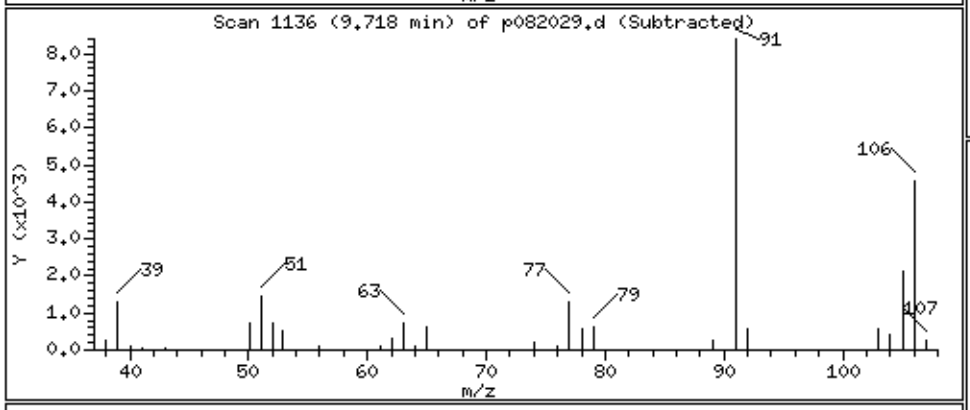
Column diameter: 0.25

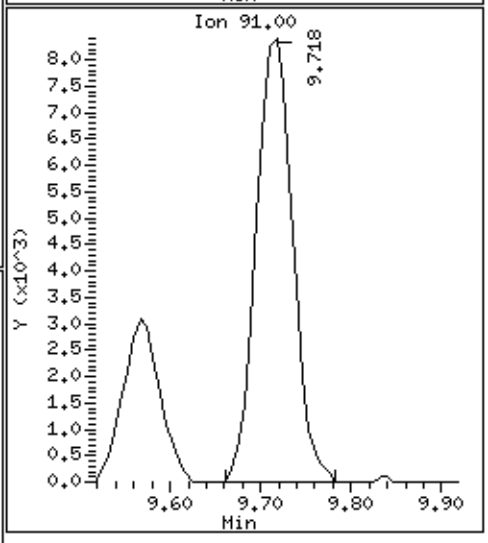
158 m,p-Xylene

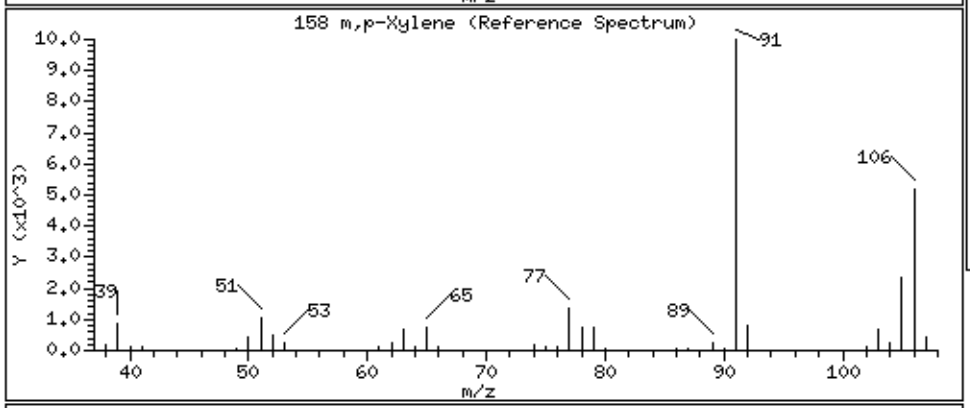
Concentration: 2.533 PPBV

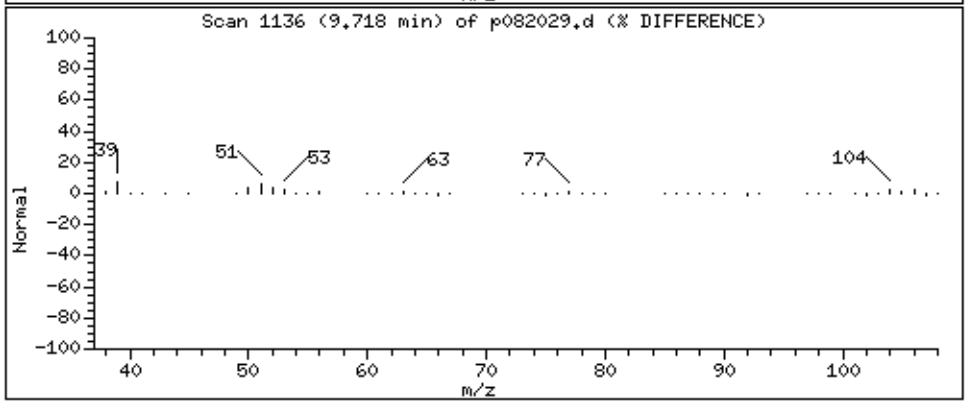












Data File: /chem/msdp.i/20AUG21.b/p082029.d

Date : 21-AUG-2021 04:11

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1L1817

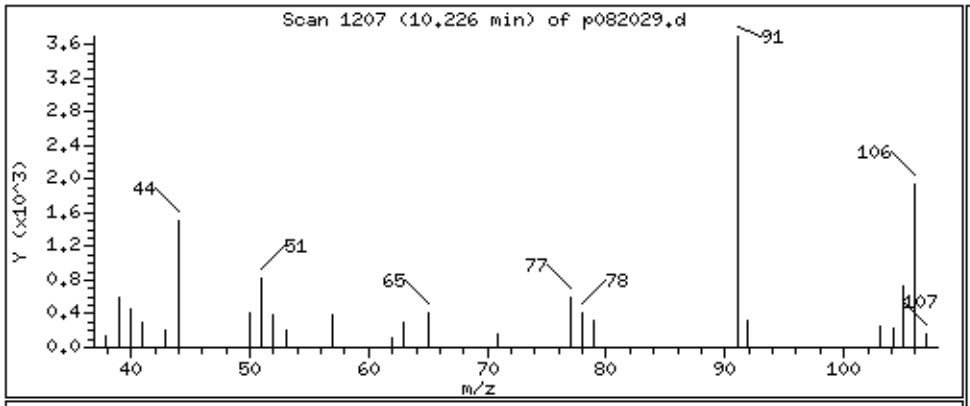
Operator: kk

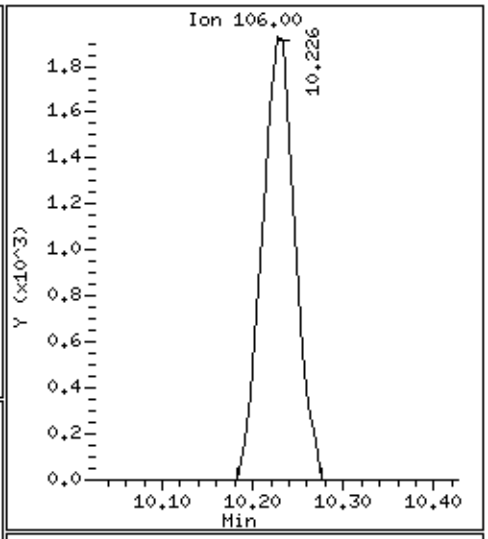
Column phase: RTX-624

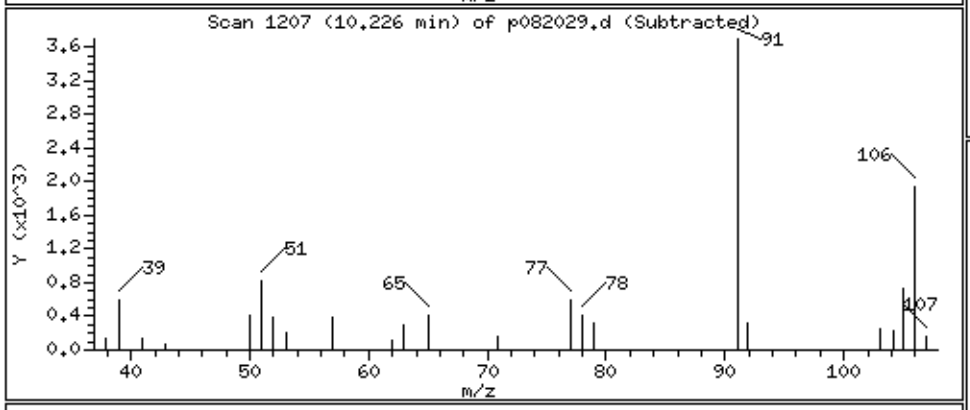
Column diameter: 0.25

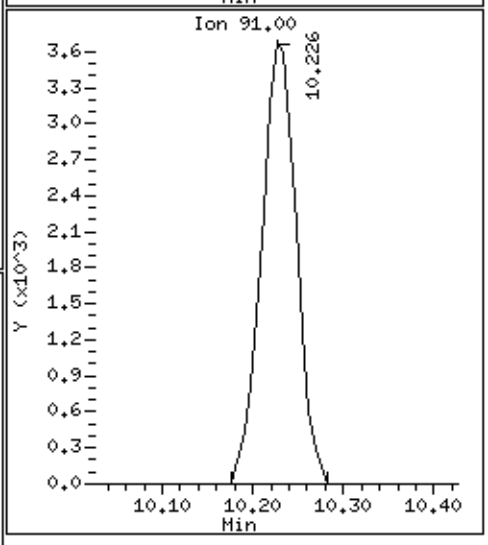
164 o-Xylene

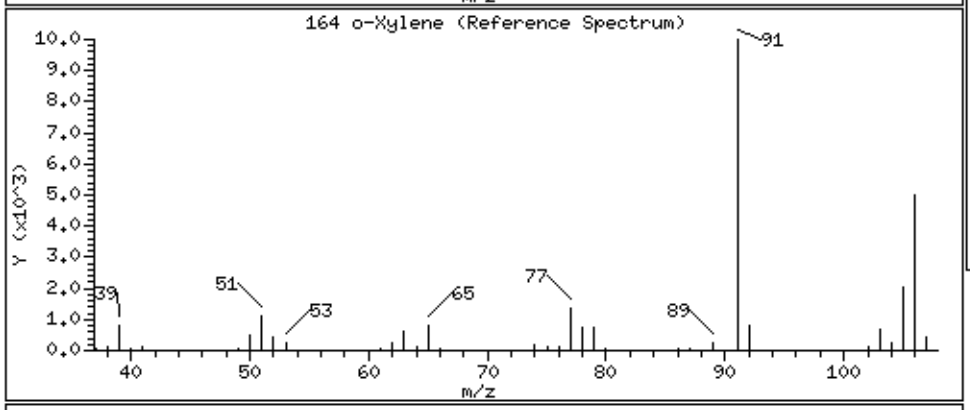
Concentration: 1.080 PPBV

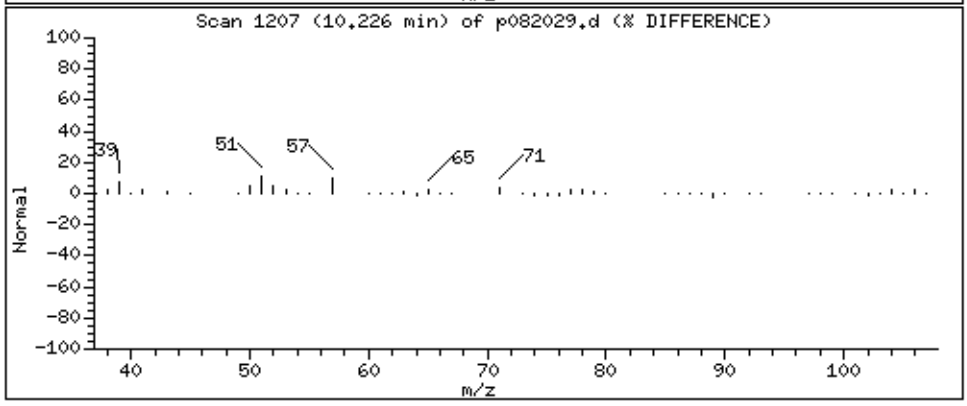












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Client Sample ID: SSV-FSS01-02

Lab ID#: 2108390-20A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p082110**	**Date of Collection:**	**8/17/21 11:22:00 AM**
Dil. Factor:	**2.06**	**Date of Analysis:**	**8/21/21 04:17 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1,2-Tetrachloroethane	4.1	Not Detected	28	Not Detected
1,1,1-Trichloroethane	1.0	Not Detected	5.6	Not Detected
1,1,2,2-Tetrachloroethane	1.0	Not Detected	7.1	Not Detected
1,1,2-Trichloroethane	1.0	Not Detected	5.6	Not Detected
1,1-Dichloroethane	1.0	Not Detected	4.2	Not Detected
1,1-Dichloroethene	1.0	Not Detected	4.1	Not Detected
1,1-Difluoroethane	4.1	Not Detected	11	Not Detected
1,2,3-Trichloropropane	4.1	Not Detected	25	Not Detected
1,2,4-Trichlorobenzene	4.1	Not Detected	30	Not Detected
1,2,4-Trimethylbenzene	1.0	Not Detected	5.1	Not Detected
1,2-Dibromo-3-chloropropane	4.1	Not Detected	40	Not Detected
1,2-Dibromoethane (EDB)	1.0	Not Detected	7.9	Not Detected
1,2-Dichlorobenzene	1.0	Not Detected	6.2	Not Detected
1,2-Dichloroethane	1.0	Not Detected	4.2	Not Detected
1,2-Dichloropropane	1.0	Not Detected	4.8	Not Detected
1,3,5-Trimethylbenzene	1.0	Not Detected	5.1	Not Detected
1,3-Butadiene	1.0	Not Detected	2.3	Not Detected
1,3-Dichlorobenzene	1.0	Not Detected	6.2	Not Detected
1,4-Dichlorobenzene	1.0	Not Detected	6.2	Not Detected
1,4-Dioxane	4.1	Not Detected	15	Not Detected
2,2,4-Trimethylpentane	1.0	Not Detected	4.8	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.1	Not Detected	12	Not Detected
2-Hexanone	4.1	Not Detected	17	Not Detected
2-Propanol	4.1	Not Detected	10	Not Detected
3-Chloropropene	4.1	Not Detected	13	Not Detected
4-Ethyltoluene	1.0	Not Detected	5.1	Not Detected
4-Methyl-2-pentanone	1.0	Not Detected	4.2	Not Detected
Acetone	10	Not Detected	24	Not Detected
Acrolein	4.1	Not Detected	9.4	Not Detected
Acrylonitrile	4.1	Not Detected	8.9	Not Detected
alpha-Chlorotoluene	1.0	Not Detected	5.3	Not Detected
Benzene	1.0	Not Detected	3.3	Not Detected
Bromodichloromethane	1.0	Not Detected	6.9	Not Detected
Bromoform	1.0	Not Detected	11	Not Detected
Bromomethane	10	Not Detected	40	Not Detected
Carbon Disulfide	4.1	Not Detected	13	Not Detected
Carbon Tetrachloride	1.0	Not Detected	6.5	Not Detected
Chlorobenzene	1.0	Not Detected	4.7	Not Detected
Chloroethane	4.1	Not Detected	11	Not Detected
Chloroform	1.0	Not Detected	5.0	Not Detected
Chloromethane	10	Not Detected	21	Not Detected
cis-1,2-Dichloroethene	1.0	Not Detected	4.1	Not Detected

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Client Sample ID: SSV-FSS01-02

Lab ID#: 2108390-20A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p082110**	**Date of Collection:**	**8/17/21 11:22:00 AM**
Dil. Factor:	**2.06**	**Date of Analysis:**	**8/21/21 04:17 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,3-Dichloropropene	1.0	Not Detected	4.7	Not Detected
Cumene	1.0	Not Detected	5.1	Not Detected
Cyclohexane	1.0	Not Detected	3.5	Not Detected
Dibromochloromethane	1.0	Not Detected	8.8	Not Detected
Dibromomethane	4.1	Not Detected	29	Not Detected
Ethanol	10	Not Detected	19	Not Detected
Ethyl Acetate	4.1	Not Detected	15	Not Detected
Ethyl Benzene	1.0	Not Detected	4.5	Not Detected
Ethyl-tert-butyl ether	4.1	Not Detected	17	Not Detected
Freon 11	1.0	Not Detected	5.8	Not Detected
Freon 12	1.0	Not Detected	5.1	Not Detected
Freon 113	1.0	Not Detected	7.9	Not Detected
Freon 114	1.0	Not Detected	7.2	Not Detected
Freon 134a	4.1	Not Detected	17	Not Detected
Heptane	1.0	Not Detected	4.2	Not Detected
Hexachlorobutadiene	4.1	Not Detected	44	Not Detected
Hexachloroethane	4.1	Not Detected	40	Not Detected
Hexane	1.0	22	3.6	77
Iodomethane	10	Not Detected	60	Not Detected
Isopropyl ether	4.1	Not Detected	17	Not Detected
m,p-Xylene	1.0	1.1	4.5	4.8
Methyl tert-butyl ether	4.1	Not Detected	15	Not Detected
Methylene Chloride	10	Not Detected	36	Not Detected
Naphthalene	2.1	Not Detected	11	Not Detected
o-Xylene	1.0	Not Detected	4.5	Not Detected
Propylbenzene	1.0	Not Detected	5.1	Not Detected
Propylene	4.1	Not Detected	7.1	Not Detected
Styrene	1.0	Not Detected	4.4	Not Detected
tert-Amyl methyl ether	4.1	Not Detected	17	Not Detected
tert-Butyl alcohol	4.1	Not Detected	12	Not Detected
Tetrachloroethene	1.0	1.4	7.0	9.4
Tetrahydrofuran	1.0	Not Detected	3.0	Not Detected
Toluene	1.0	Not Detected	3.9	Not Detected
TPH ref. to Gasoline (MW=100)	100	Not Detected	420	Not Detected
trans-1,2-Dichloroethene	1.0	Not Detected	4.1	Not Detected
trans-1,3-Dichloropropene	1.0	Not Detected	4.7	Not Detected
Trichloroethene	1.0	Not Detected	5.5	Not Detected
Vinyl Acetate	4.1	Not Detected	14	Not Detected
Vinyl Bromide	4.1	Not Detected	18	Not Detected
Vinyl Chloride	1.0	Not Detected	2.6	Not Detected

Container Type: 1 Liter Summa Canister

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Client Sample ID: SSV-FSS01-02

Lab ID#: 2108390-20A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p082110**	**Date of Collection:**	**8/17/21 11:22:00 AM**
Dil. Factor:	**2.06**	**Date of Analysis:**	**8/21/21 04:17 PM**

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	112	70-130
4-Bromofluorobenzene	109	70-130

US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/21AUG21.b/p082110.d
Lab Smp Id: 2108390-20A
Inj Date : 21-AUG-2021 16:17
Operator : mb Inst ID: msdp.i
Smp Info : 200ml N5602
Misc Info : 5.5 Hg->10 psi
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/21AUG21.b/p21q0519a.m
Meth Date : 23-Aug-2021 07:32 lk8g Quant Type: ISTD
Cal Date : 19-MAY-2021 19:45 Cal File: p051915.d
Als bottle: 1
Dil Factor: 2.06000
Integrator: HP RTE Compound Sublist: AEC25677.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE		(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 90 Bromochloromethane						CAS #: 74-97-5		
5.785	5.785 (1.000)	130	103399	25.0000			80.00- 120.00	100.00
5.785	5.785 (1.000)	128	79882				48.23- 108.23	77.26
5.785	5.785 (1.000)	49	231983				150.57- 210.57	224.36
* 108 1,4-Difluorobenzene						CAS #: 540-36-3		
6.666	6.666 (1.000)	114	374486	25.0000			80.00- 120.00	100.00
6.666	6.666 (1.000)	88	53789				0.00- 45.71	14.36
* 153 Chlorobenzene-d5						CAS #: 3114-55-4		
9.460	9.460 (1.000)	117	388908	25.0000			80.00- 120.00	100.00
9.460	9.460 (1.000)	82	197442				23.78- 83.78	50.77
$ 104 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
6.315	6.315 (1.092)	65	159218	27.9021	27.902		80.00- 120.00	100.00
6.315	6.315 (1.092)	67	75468				27.21- 87.21	47.40
$ 134 Toluene-d8						CAS #: 2037-26-5		
7.891	7.891 (1.184)	98	411444	25.3015	25.301		80.00- 120.00	100.00
7.891	7.891 (1.184)	70	43758				0.00- 40.44	10.64

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 134 Toluene-d8 (continued)							
7.891	7.891 (1.184)	100	267295			34.95- 94.95	64.97
$ 170 4-Bromofluorobenzene					CAS #: 460-00-4		
10.921	10.921 (1.154)	174	272352	27.2714	27.271	80.00- 120.00	100.00
10.921	10.921 (1.154)	95	319716			95.92- 155.92	117.39
10.921	10.921 (1.154)	176	266202			66.89- 126.89	97.74
67 Hexane					CAS #: 110-54-3		
4.697	4.697 (0.812)	57	107538	10.5574	21.748	80.00- 120.00	100.00
4.697	4.697 (0.812)	43	90047			37.52- 97.52	83.74
4.697	4.697 (0.812)	86	10830			0.00- 41.48	10.07
142 Tetrachloroethene					CAS #: 127-18-4		
8.464	8.464 (0.895)	166	5987	0.67546	1.391	80.00- 120.00	100.00
8.471	8.464 (0.895)	129	4737			47.84- 107.84	79.13
8.464	8.464 (0.895)	131	5093			45.29- 105.29	85.07
158 m,p-Xylene					CAS #: 108-38-3		
9.718	9.718 (1.027)	106	5386	0.53255	1.097	80.00- 120.00	100.00
9.711	9.718 (1.026)	91	11916			163.73- 223.73	221.24

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p082110.d
Lab Smp Id: 2108390-20A
Analysis Type: VOA
Quant Type: ISTD
Operator: mb
Method File: /chem/msdp.i/21AUG21.b/p21q0519a.m
Misc Info: 5.5 Hg->10 psi

Calibration Date: 21-AUG-2021
Calibration Time: 09:37
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	102894	61736	144052	103399	0.49
108 1,4-Difluorobenze	387356	232414	542298	374486	-3.32
153 Chlorobenzene-d5	386134	231680	540588	388908	0.72

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.79	5.46	6.12	5.79	-0.00
108 1,4-Difluorobenze	6.67	6.34	7.00	6.67	0.00
153 Chlorobenzene-d5	9.46	9.13	9.79	9.46	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 24-Aug-2021 12:11

US32TAR1

RECOVERY REPORT

Client Name: Client SDG: 21AUG21
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 2108390-20A
Level: LOW Operator: mb
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT20_new.spk Quant Type: ISTD
Sublist File: AEC25677.sub
Method File: /chem/msdp.i/21AUG21.b/p21q0519a.m
Misc Info: 5.5 Hg->10 psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 104 1,2-Dichloroethan	25.000	27.902	111.61	70-130
$ 134 Toluene-d8	25.000	25.301	101.21	70-130
$ 170 4-Bromofluorobenz	25.000	27.271	109.09	70-130

Data File: /chem/msdp.i/21AUG21.b/p082110.d

Date : 21-AUG-2021 16:17

Client ID:

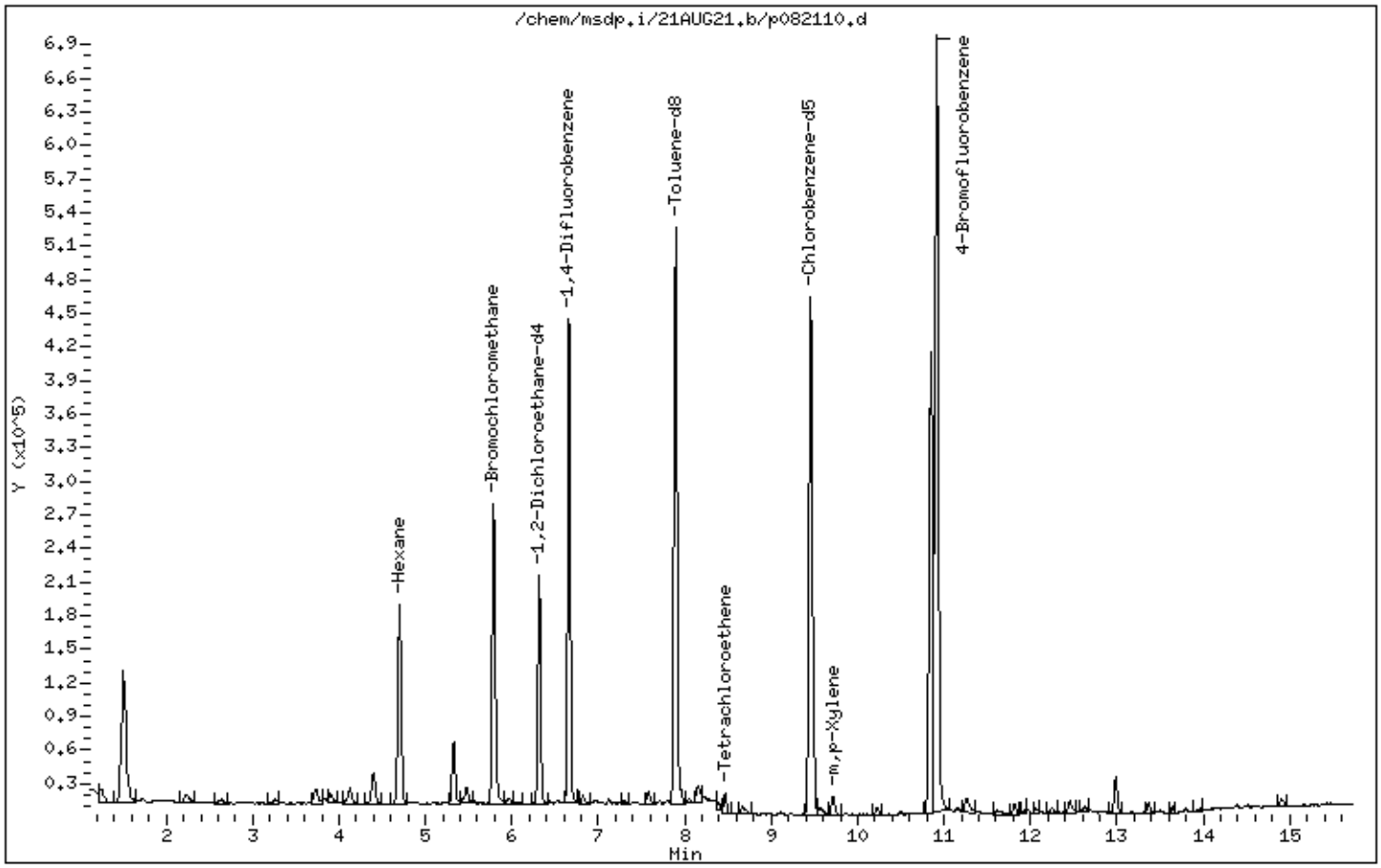
Instrument: msdp.i

Sample Info: 200ml N5602

Operator: mb

Column phase: RTX-624

Column diameter: 0.25



Data File: /chem/msdp.i/21AUG21.b/p082110.d

Date : 21-AUG-2021 16:17

Client ID:

Instrument: msdp.i

Sample Info: 200ml N5602

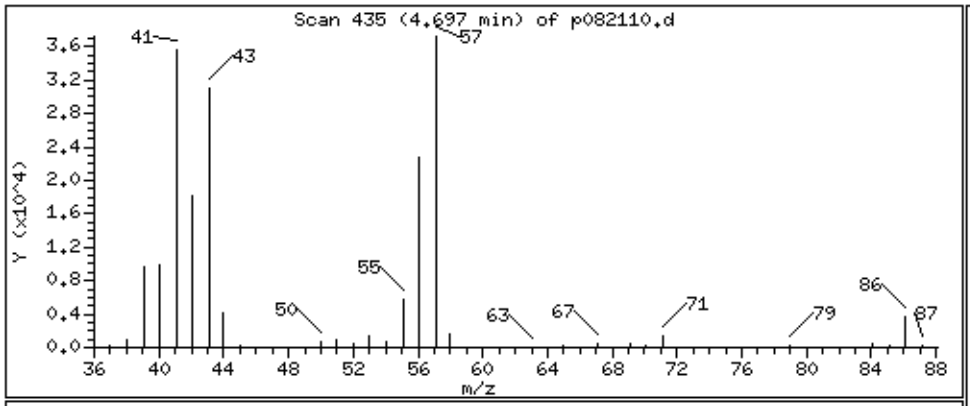
Operator: mb

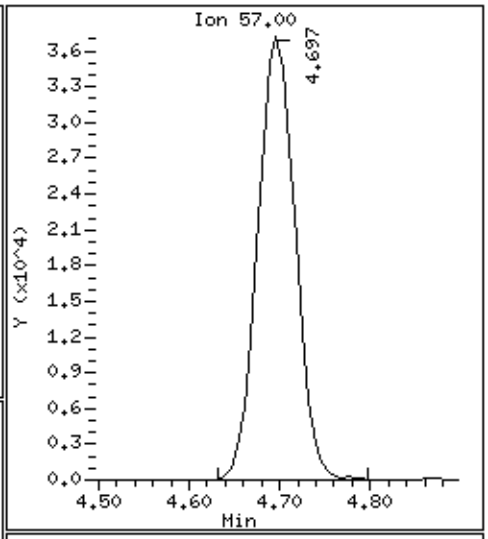
Column phase: RTX-624

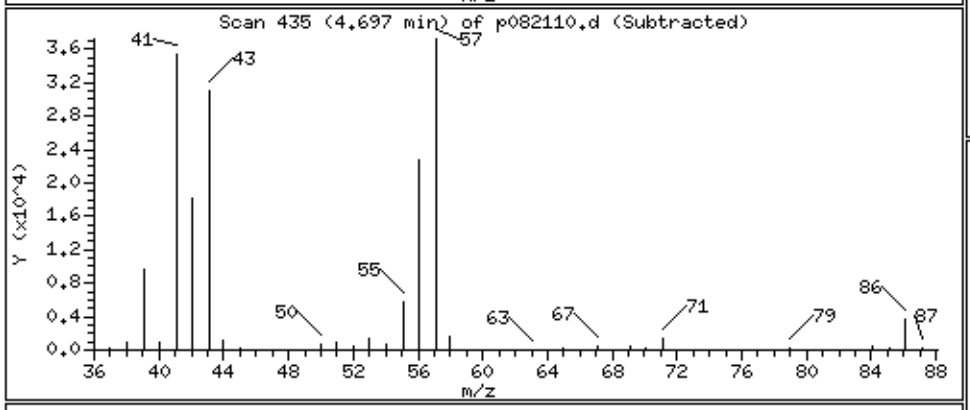
Column diameter: 0.25

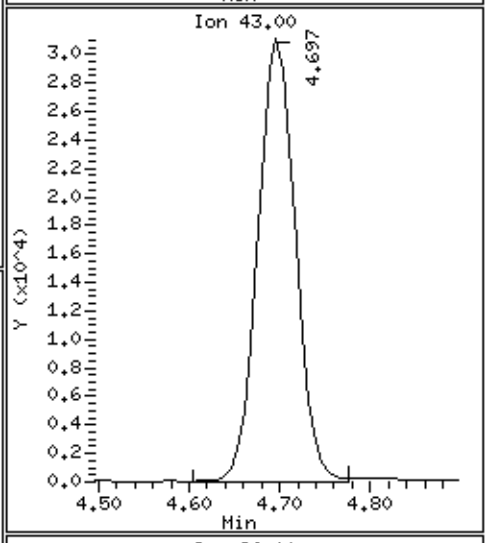
67 Hexane

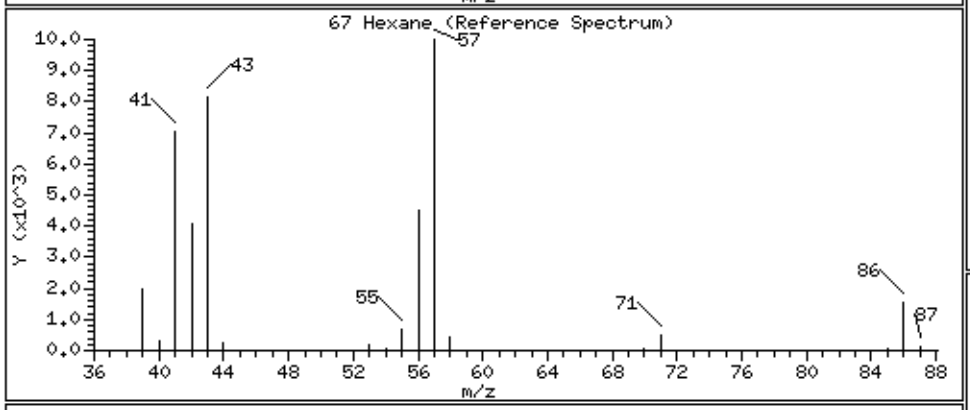
Concentration: 21.748 PPBV

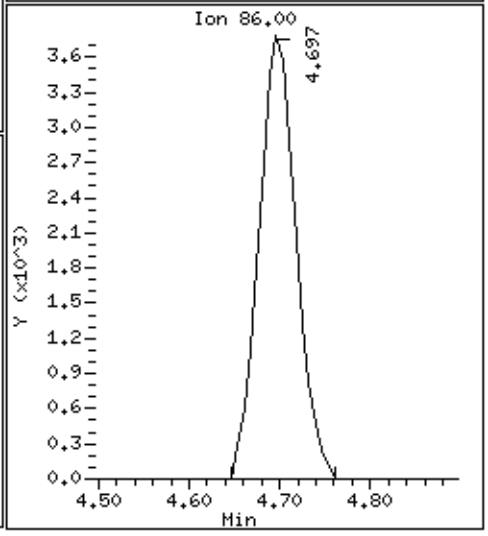


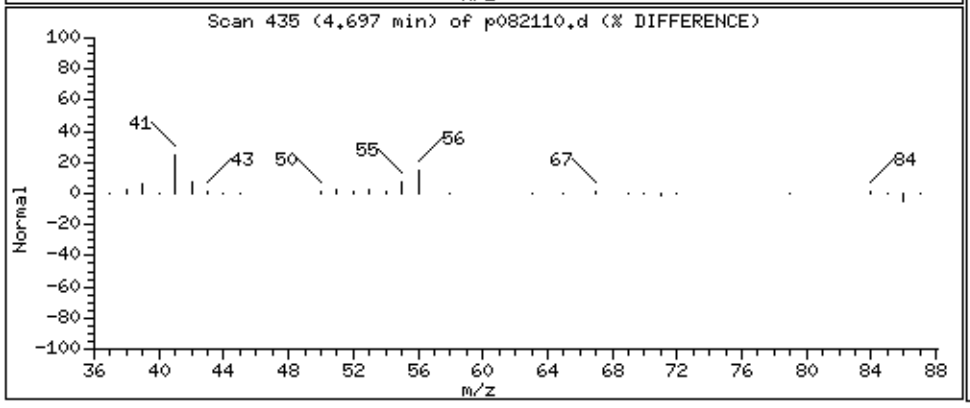












Data File: /chem/msdp.i/21AUG21.b/p082110.d

Date : 21-AUG-2021 16:17

Client ID:

Instrument: msdp.i

Sample Info: 200ml N5602

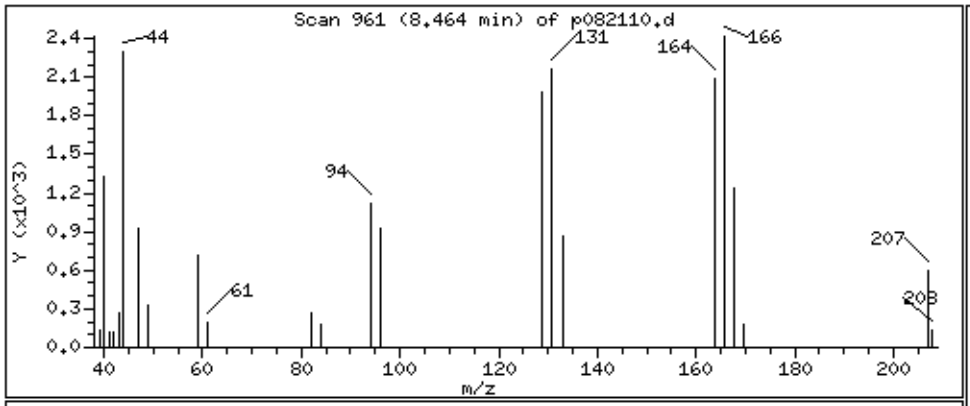
Operator: mb

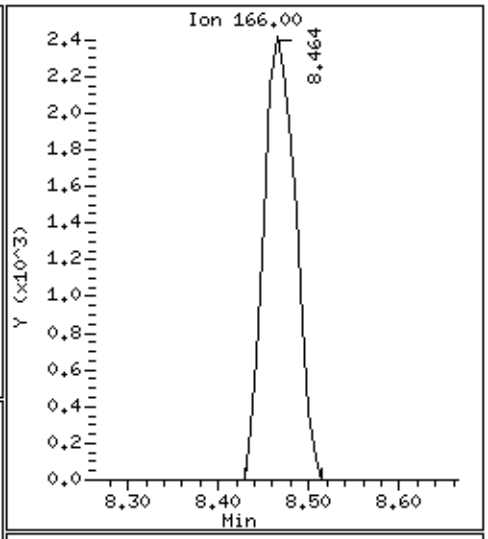
Column phase: RTX-624

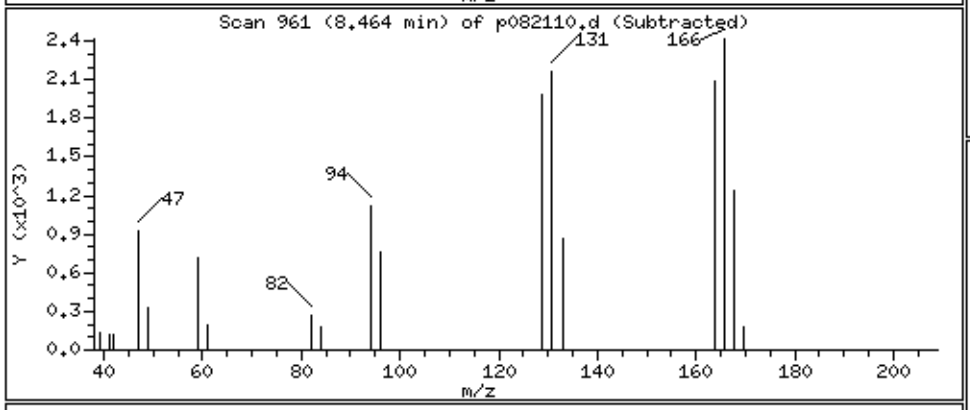
Column diameter: 0.25

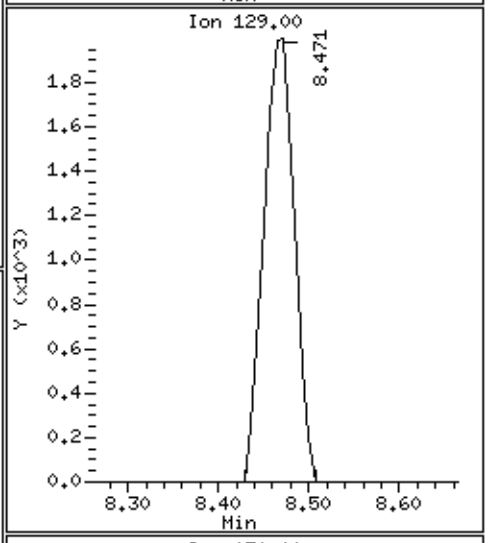
142 Tetrachloroethene

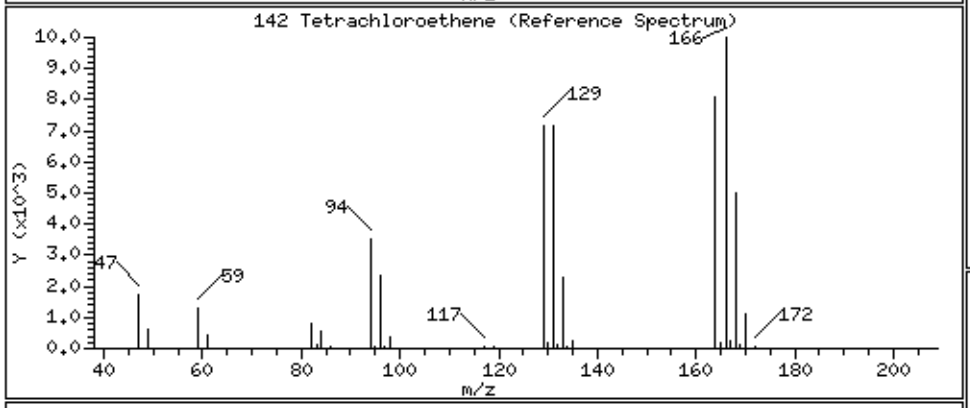
Concentration: 1.391 PPBV

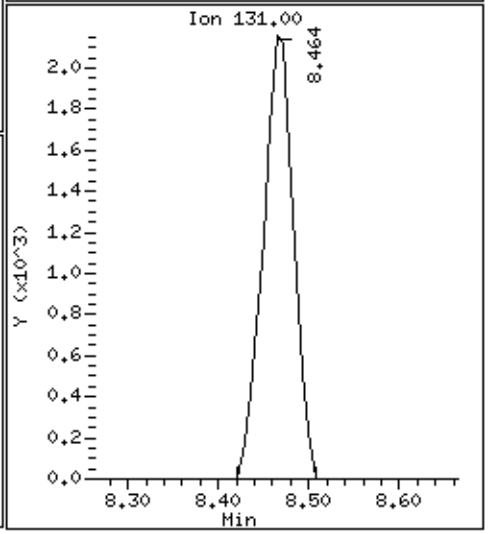


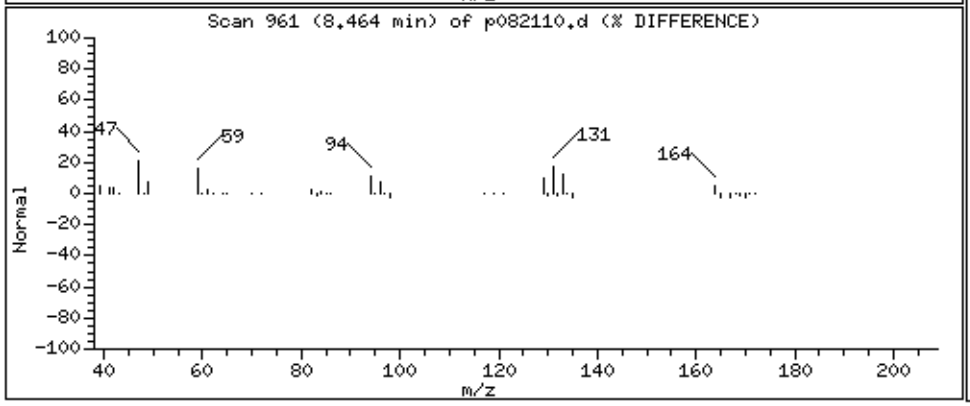












Data File: /chem/msdp.i/21AUG21.b/p082110.d

Date : 21-AUG-2021 16:17

Client ID:

Instrument: msdp.i

Sample Info: 200ml N5602

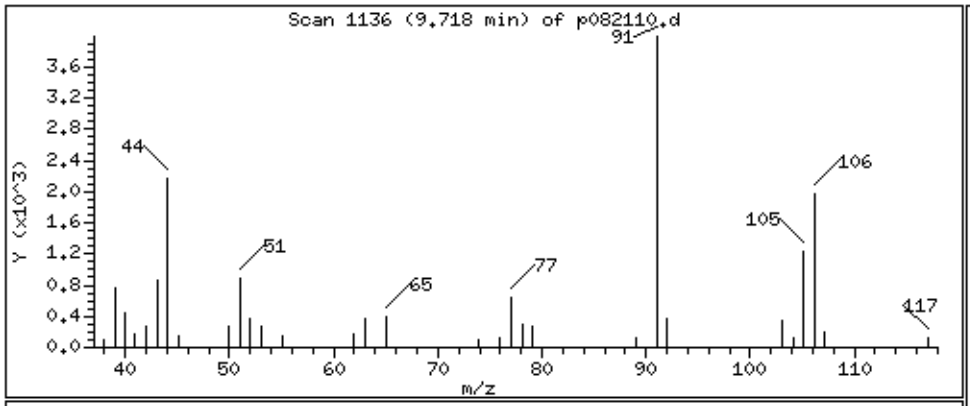
Operator: mb

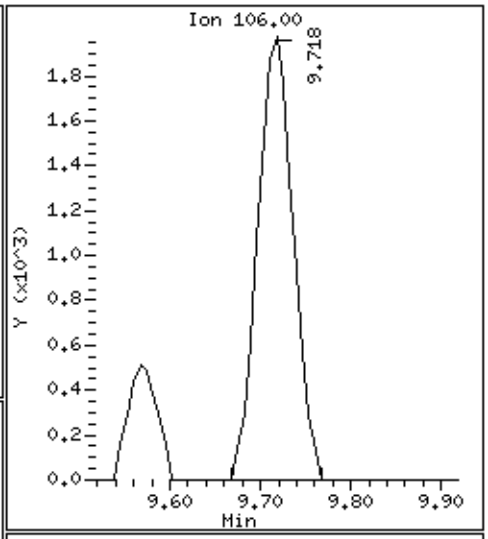
Column phase: RTX-624

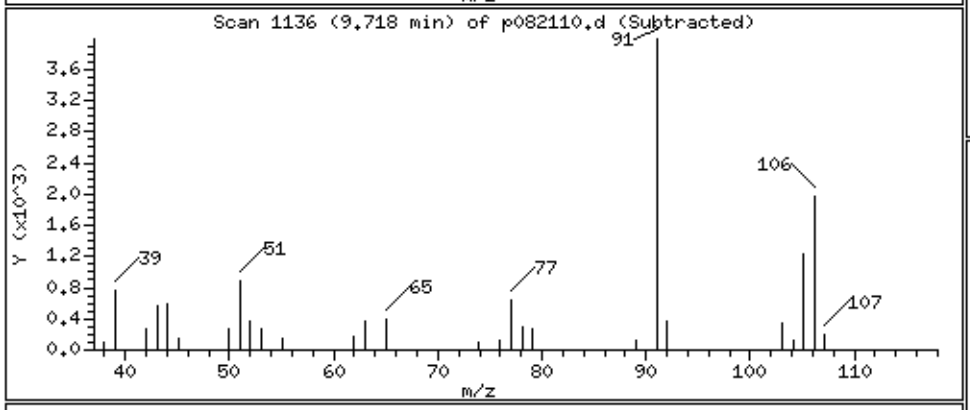
Column diameter: 0.25

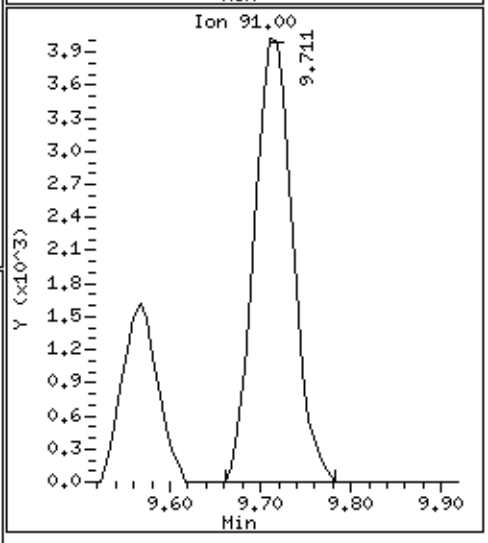
158 m,p-Xylene

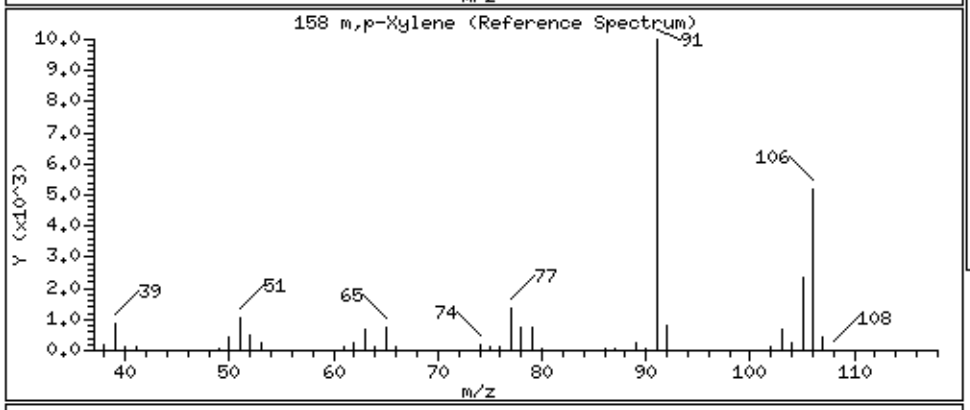
Concentration: 1.097 PPBV

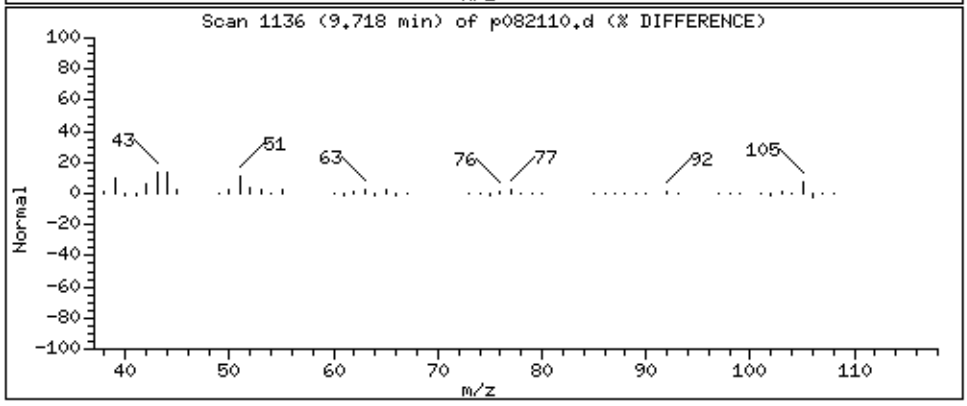












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Client Sample ID: SSV-FSS01-03

Lab ID#: 2108390-21A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p082109**	**Date of Collection:**	**8/17/21 11:22:00 AM**
Dil. Factor:	**2.06**	**Date of Analysis:**	**8/21/21 03:35 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1,2-Tetrachloroethane	4.1	Not Detected	28	Not Detected
1,1,1-Trichloroethane	1.0	Not Detected	5.6	Not Detected
1,1,2,2-Tetrachloroethane	1.0	Not Detected	7.1	Not Detected
1,1,2-Trichloroethane	1.0	Not Detected	5.6	Not Detected
1,1-Dichloroethane	1.0	Not Detected	4.2	Not Detected
1,1-Dichloroethene	1.0	Not Detected	4.1	Not Detected
1,1-Difluoroethane	4.1	Not Detected	11	Not Detected
1,2,3-Trichloropropane	4.1	Not Detected	25	Not Detected
1,2,4-Trichlorobenzene	4.1	Not Detected	30	Not Detected
1,2,4-Trimethylbenzene	1.0	Not Detected	5.1	Not Detected
1,2-Dibromo-3-chloropropane	4.1	Not Detected	40	Not Detected
1,2-Dibromoethane (EDB)	1.0	Not Detected	7.9	Not Detected
1,2-Dichlorobenzene	1.0	Not Detected	6.2	Not Detected
1,2-Dichloroethane	1.0	Not Detected	4.2	Not Detected
1,2-Dichloropropane	1.0	Not Detected	4.8	Not Detected
1,3,5-Trimethylbenzene	1.0	Not Detected	5.1	Not Detected
1,3-Butadiene	1.0	Not Detected	2.3	Not Detected
1,3-Dichlorobenzene	1.0	Not Detected	6.2	Not Detected
1,4-Dichlorobenzene	1.0	Not Detected	6.2	Not Detected
1,4-Dioxane	4.1	Not Detected	15	Not Detected
2,2,4-Trimethylpentane	1.0	Not Detected	4.8	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.1	Not Detected	12	Not Detected
2-Hexanone	4.1	Not Detected	17	Not Detected
2-Propanol	4.1	Not Detected	10	Not Detected
3-Chloropropene	4.1	Not Detected	13	Not Detected
4-Ethyltoluene	1.0	Not Detected	5.1	Not Detected
4-Methyl-2-pentanone	1.0	Not Detected	4.2	Not Detected
Acetone	10	Not Detected	24	Not Detected
Acrolein	4.1	Not Detected	9.4	Not Detected
Acrylonitrile	4.1	Not Detected	8.9	Not Detected
alpha-Chlorotoluene	1.0	Not Detected	5.3	Not Detected
Benzene	1.0	Not Detected	3.3	Not Detected
Bromodichloromethane	1.0	Not Detected	6.9	Not Detected
Bromoform	1.0	Not Detected	11	Not Detected
Bromomethane	10	Not Detected	40	Not Detected
Carbon Disulfide	4.1	Not Detected	13	Not Detected
Carbon Tetrachloride	1.0	Not Detected	6.5	Not Detected
Chlorobenzene	1.0	Not Detected	4.7	Not Detected
Chloroethane	4.1	Not Detected	11	Not Detected
Chloroform	1.0	Not Detected	5.0	Not Detected
Chloromethane	10	Not Detected	21	Not Detected
cis-1,2-Dichloroethene	1.0	Not Detected	4.1	Not Detected

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Client Sample ID: SSV-FSS01-03

Lab ID#: 2108390-21A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p082109**	**Date of Collection:**	**8/17/21 11:22:00 AM**
Dil. Factor:	**2.06**	**Date of Analysis:**	**8/21/21 03:35 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,3-Dichloropropene	1.0	Not Detected	4.7	Not Detected
Cumene	1.0	Not Detected	5.1	Not Detected
Cyclohexane	1.0	Not Detected	3.5	Not Detected
Dibromochloromethane	1.0	Not Detected	8.8	Not Detected
Dibromomethane	4.1	Not Detected	29	Not Detected
Ethanol	10	Not Detected	19	Not Detected
Ethyl Acetate	4.1	Not Detected	15	Not Detected
Ethyl Benzene	1.0	Not Detected	4.5	Not Detected
Ethyl-tert-butyl ether	4.1	Not Detected	17	Not Detected
Freon 11	1.0	Not Detected	5.8	Not Detected
Freon 12	1.0	Not Detected	5.1	Not Detected
Freon 113	1.0	Not Detected	7.9	Not Detected
Freon 114	1.0	Not Detected	7.2	Not Detected
Freon 134a	4.1	Not Detected	17	Not Detected
Heptane	1.0	Not Detected	4.2	Not Detected
Hexachlorobutadiene	4.1	Not Detected	44	Not Detected
Hexachloroethane	4.1	Not Detected	40	Not Detected
Hexane	1.0	15	3.6	54
Iodomethane	10	Not Detected	60	Not Detected
Isopropyl ether	4.1	Not Detected	17	Not Detected
m,p-Xylene	1.0	1.3	4.5	5.5
Methyl tert-butyl ether	4.1	Not Detected	15	Not Detected
Methylene Chloride	10	Not Detected	36	Not Detected
Naphthalene	2.1	Not Detected	11	Not Detected
o-Xylene	1.0	Not Detected	4.5	Not Detected
Propylbenzene	1.0	Not Detected	5.1	Not Detected
Propylene	4.1	Not Detected	7.1	Not Detected
Styrene	1.0	Not Detected	4.4	Not Detected
tert-Amyl methyl ether	4.1	Not Detected	17	Not Detected
tert-Butyl alcohol	4.1	Not Detected	12	Not Detected
Tetrachloroethene	1.0	1.4	7.0	9.7
Tetrahydrofuran	1.0	Not Detected	3.0	Not Detected
Toluene	1.0	Not Detected	3.9	Not Detected
TPH ref. to Gasoline (MW=100)	100	Not Detected	420	Not Detected
trans-1,2-Dichloroethene	1.0	Not Detected	4.1	Not Detected
trans-1,3-Dichloropropene	1.0	Not Detected	4.7	Not Detected
Trichloroethene	1.0	Not Detected	5.5	Not Detected
Vinyl Acetate	4.1	Not Detected	14	Not Detected
Vinyl Bromide	4.1	Not Detected	18	Not Detected
Vinyl Chloride	1.0	Not Detected	2.6	Not Detected

Container Type: 1 Liter Summa Canister

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Client Sample ID: SSV-FSS01-03

Lab ID#: 2108390-21A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p082109**	**Date of Collection:**	**8/17/21 11:22:00 AM**
Dil. Factor:	**2.06**	**Date of Analysis:**	**8/21/21 03:35 PM**

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	111	70-130
4-Bromofluorobenzene	110	70-130

US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/21AUG21.b/p082109.d
Lab Smp Id: 2108390-21A
Inj Date : 21-AUG-2021 15:35
Operator : mb Inst ID: msdp.i
Smp Info : 200ml N1957
Misc Info : 5.5 Hg->10 psi
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/21AUG21.b/p21q0519a.m
Meth Date : 23-Aug-2021 07:32 lk8g Quant Type: ISTD
Cal Date : 19-MAY-2021 19:45 Cal File: p051915.d
Als bottle: 1
Dil Factor: 2.06000
Integrator: HP RTE Compound Sublist: AEC25677.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE		(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 90 Bromochloromethane						CAS #: 74-97-5		
5.785	5.785 (1.000)	130	105400	25.0000			80.00- 120.00	100.00
5.785	5.785 (1.000)	128	83381				48.23- 108.23	79.11
5.785	5.785 (1.000)	49	233995				150.57- 210.57	222.01
* 108 1,4-Difluorobenzene						CAS #: 540-36-3		
6.659	6.666 (1.000)	114	383169	25.0000			80.00- 120.00	100.00
6.659	6.666 (1.000)	88	54283				0.00- 45.71	14.17
* 153 Chlorobenzene-d5						CAS #: 3114-55-4		
9.460	9.460 (1.000)	117	393136	25.0000			80.00- 120.00	100.00
9.460	9.460 (1.000)	82	199408				23.78- 83.78	50.72
$ 104 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
6.315	6.315 (1.092)	65	161663	27.7927	27.793		80.00- 120.00	100.00
6.315	6.315 (1.092)	67	77393				27.21- 87.21	47.87
$ 134 Toluene-d8						CAS #: 2037-26-5		
7.891	7.891 (1.185)	98	419540	25.2147	25.215		80.00- 120.00	100.00
7.891	7.891 (1.185)	70	44882				0.00- 40.44	10.70

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 134 Toluene-d8 (continued)							
7.891	7.891 (1.185)	100	273764			34.95- 94.95	65.25
$ 170 4-Bromofluorobenzene					CAS #: 460-00-4		
10.921	10.921 (1.154)	174	276721	27.4109	27.411	80.00- 120.00	100.00
10.914	10.921 (1.154)	95	324350			95.92- 155.92	117.21
10.921	10.921 (1.154)	176	267322			66.89- 126.89	96.60
67 Hexane					CAS #: 110-54-3		
4.696	4.697 (0.812)	57	77855	7.49823	15.446	80.00- 120.00	100.00
4.696	4.697 (0.812)	43	63655			37.52- 97.52	81.76
4.696	4.697 (0.812)	86	7753			0.00- 41.48	9.96
142 Tetrachloroethene					CAS #: 127-18-4		
8.471	8.464 (0.895)	166	6240	0.69644	1.435	80.00- 120.00	100.00
8.464	8.464 (0.895)	129	4921			47.84- 107.84	78.86
8.464	8.464 (0.895)	131	4443			45.29- 105.29	71.21
158 m,p-Xylene					CAS #: 108-38-3		
9.718	9.718 (1.027)	106	6316	0.61779	1.273	80.00- 120.00	100.00
9.718	9.718 (1.027)	91	11046			163.73- 223.73	174.87

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p082109.d
Lab Smp Id: 2108390-21A
Analysis Type: VOA
Quant Type: ISTD
Operator: mb
Method File: /chem/msdp.i/21AUG21.b/p21q0519a.m
Misc Info: 5.5 Hg->10 psi

Calibration Date: 21-AUG-2021
Calibration Time: 09:37
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	102894	61736	144052	105400	2.44
108 1,4-Difluorobenze	387356	232414	542298	383169	-1.08
153 Chlorobenzene-d5	386134	231680	540588	393136	1.81

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.79	5.46	6.12	5.79	-0.00
108 1,4-Difluorobenze	6.67	6.34	7.00	6.66	-0.11
153 Chlorobenzene-d5	9.46	9.13	9.79	9.46	-0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 24-Aug-2021 12:15

US32TAR1

RECOVERY REPORT

Client Name: Client SDG: 21AUG21
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 2108390-21A
Level: LOW Operator: mb
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT20_new.spk Quant Type: ISTD
Sublist File: AEC25677.sub
Method File: /chem/msdp.i/21AUG21.b/p21q0519a.m
Misc Info: 5.5 Hg->10 psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 104 1,2-Dichloroethan	25.000	27.793	111.17	70-130
$ 134 Toluene-d8	25.000	25.215	100.86	70-130
$ 170 4-Bromofluorobenz	25.000	27.411	109.64	70-130

Data File: /chem/msdp.i/21AUG21.b/p082109.d

Date : 21-AUG-2021 15:35

Client ID:

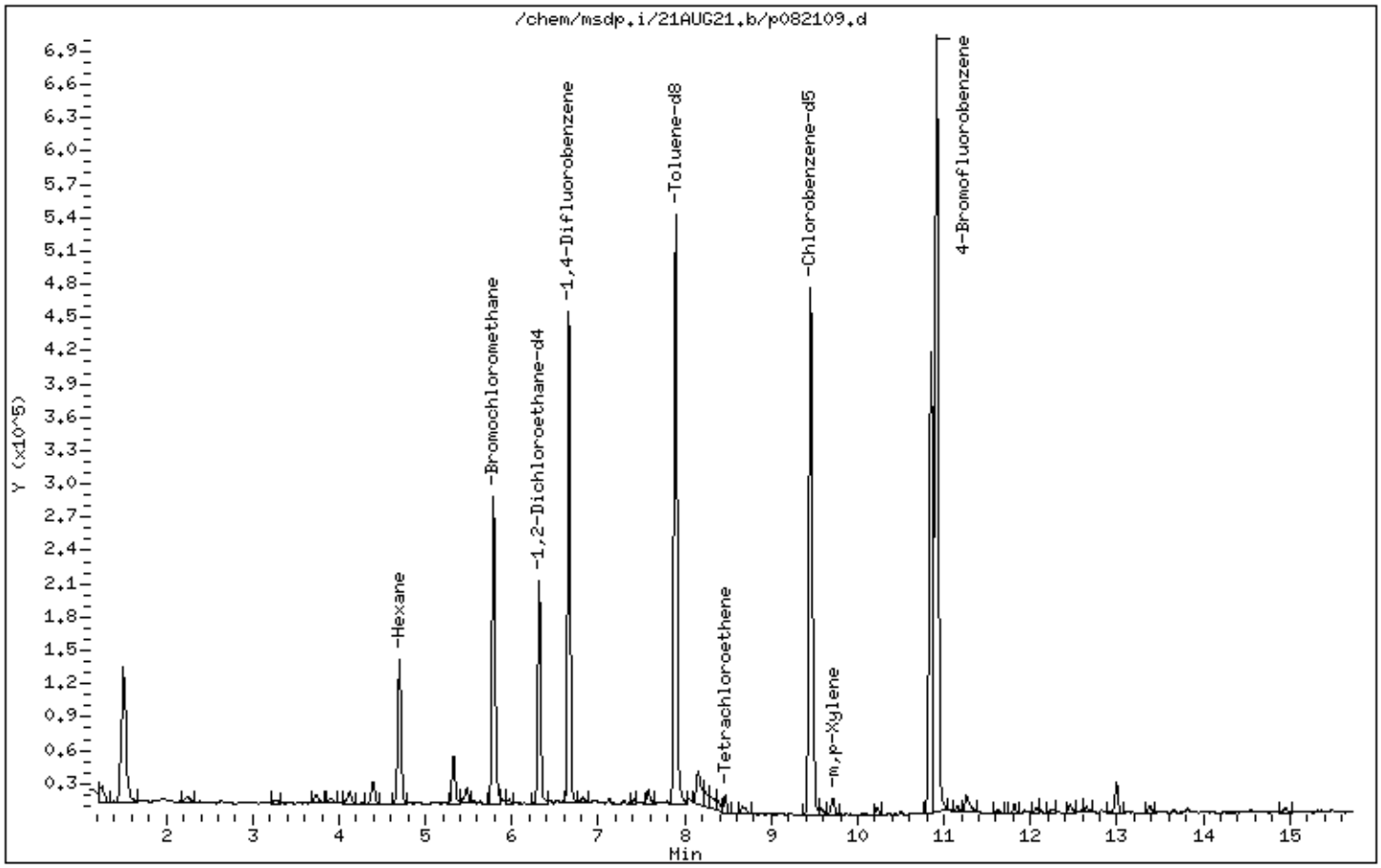
Instrument: msdp.i

Sample Info: 200ml N1957

Operator: mb

Column phase: RTX-624

Column diameter: 0.25



Data File: /chem/msdp.i/21AUG21.b/p082109.d

Date : 21-AUG-2021 15:35

Client ID:

Instrument: msdp.i

Sample Info: 200ml N1957

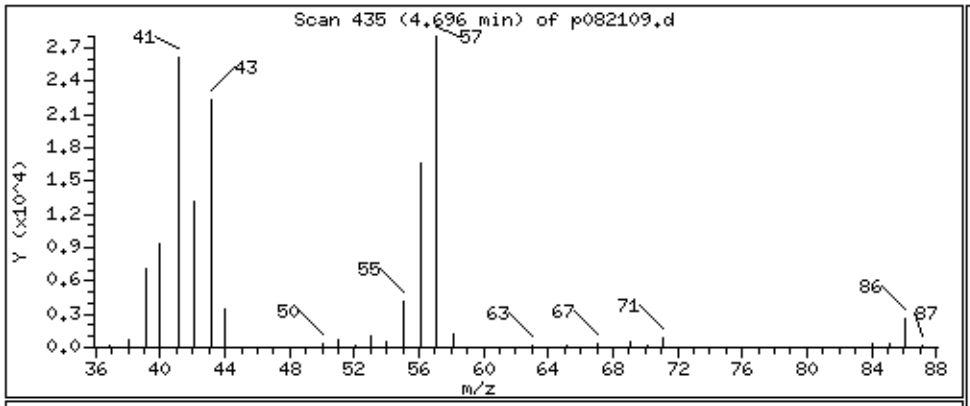
Operator: mb

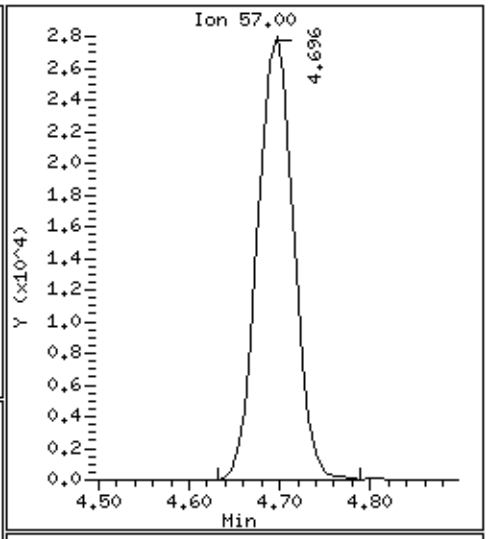
Column phase: RTX-624

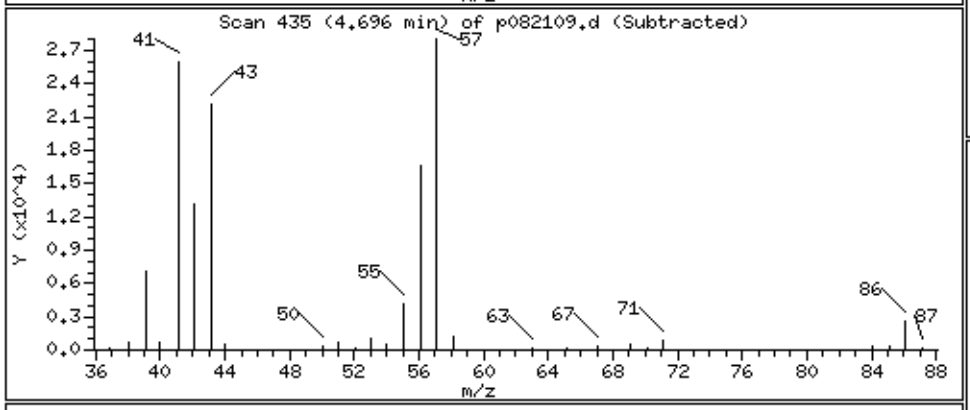
Column diameter: 0.25

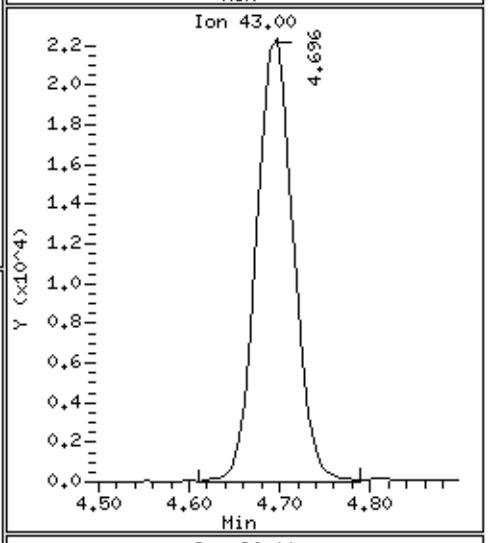
67 Hexane

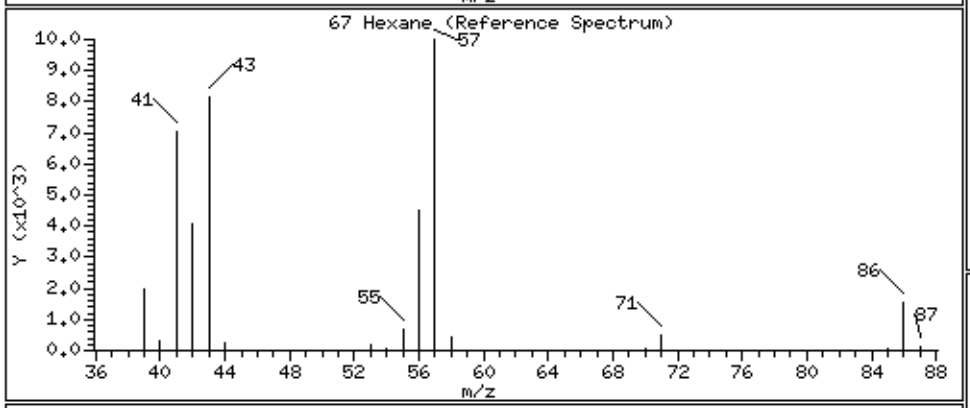
Concentration: 15.446 PPBV

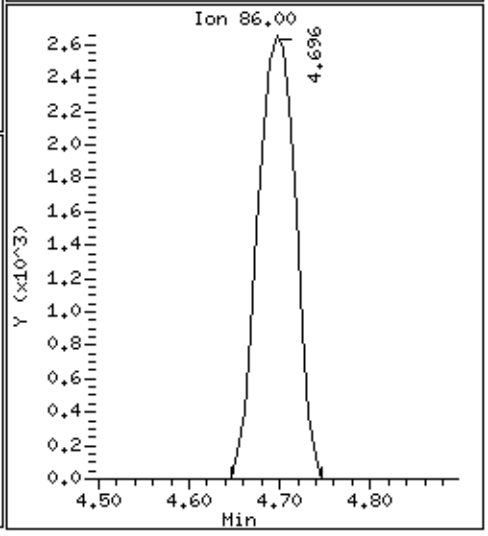


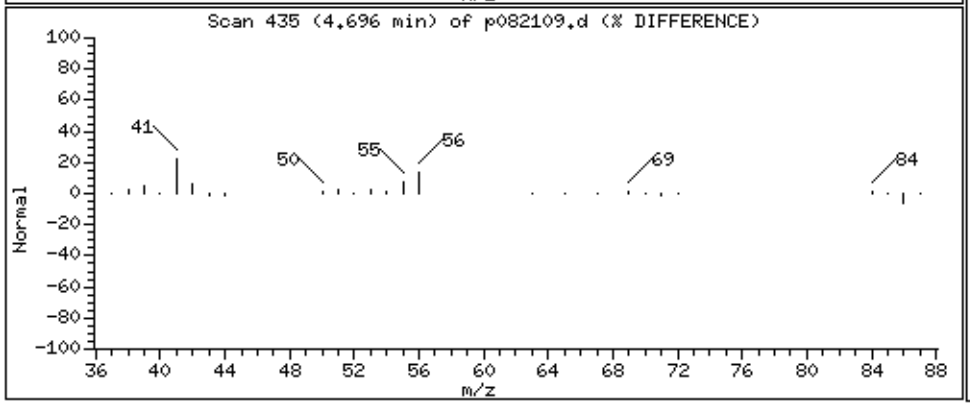












Data File: /chem/msdp.i/21AUG21.b/p082109.d

Page 3

Date : 21-AUG-2021 15:35

Client ID:

Instrument: msdp.i

Sample Info: 200ml N1957

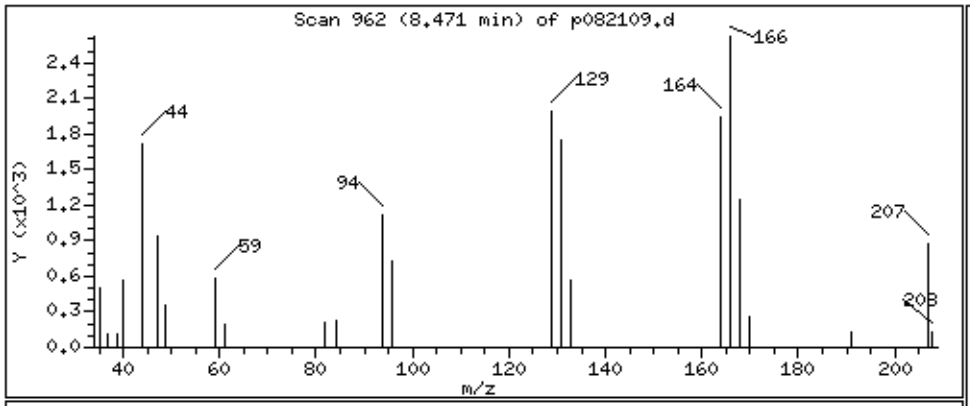
Operator: mb

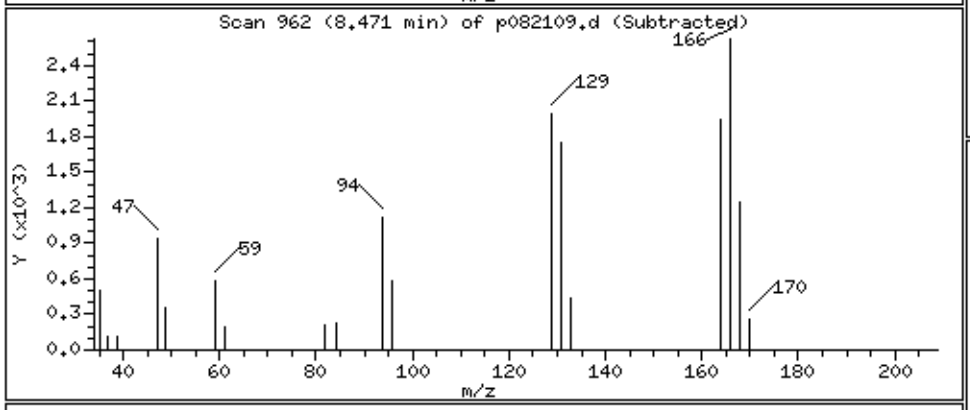
Column phase: RTX-624

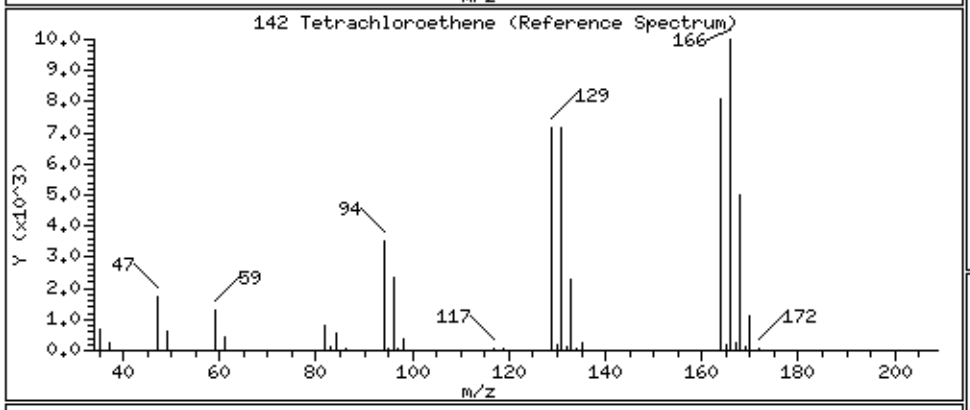
Column diameter: 0.25

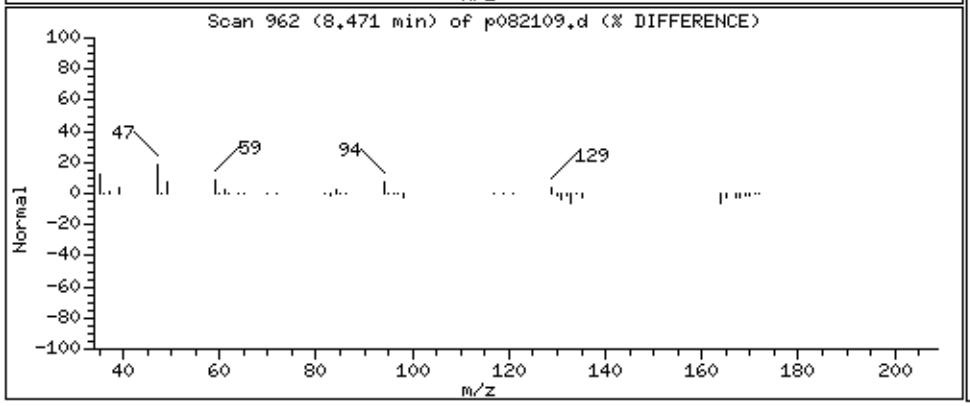
142 Tetrachloroethene

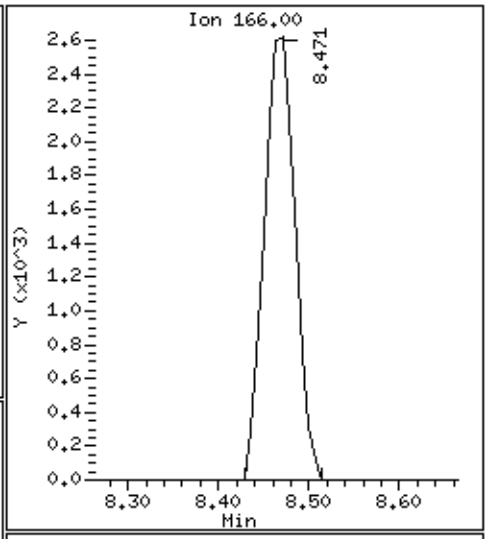
Concentration: 1.435 PPBV

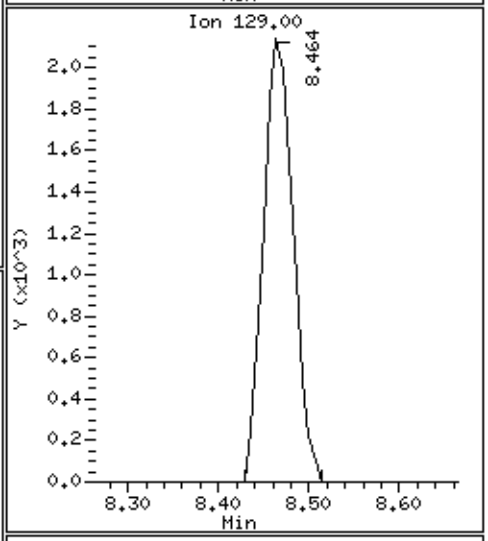


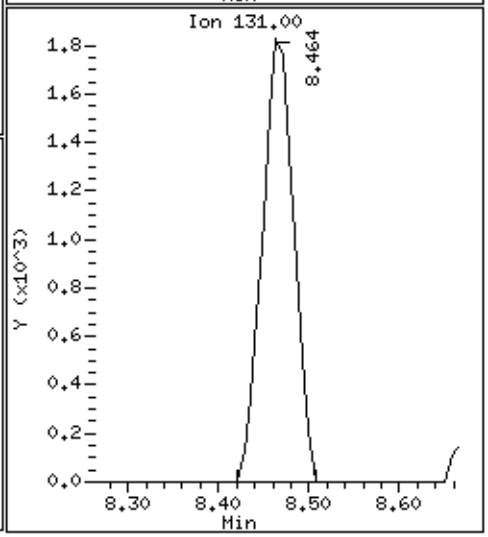












Data File: /chem/msdp.i/21AUG21.b/p082109.d

Date : 21-AUG-2021 15:35

Client ID:

Instrument: msdp.i

Sample Info: 200ml N1957

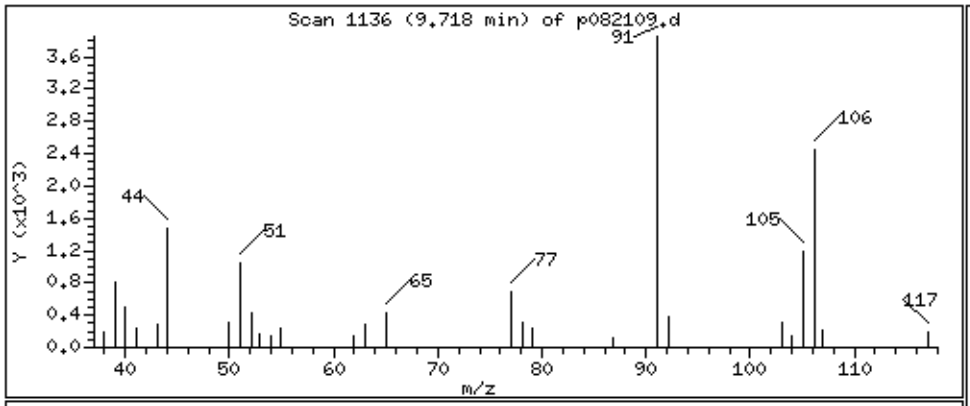
Operator: mb

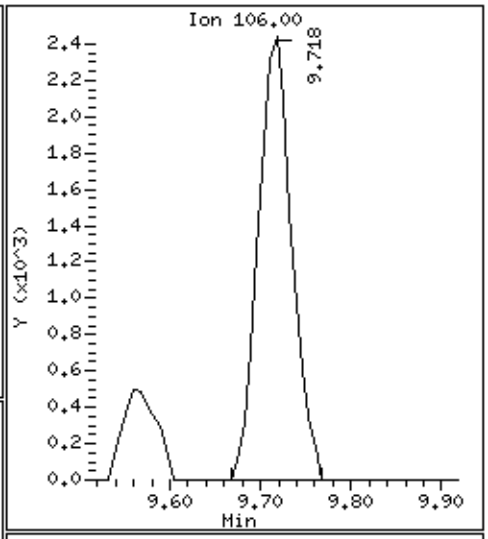
Column phase: RTX-624

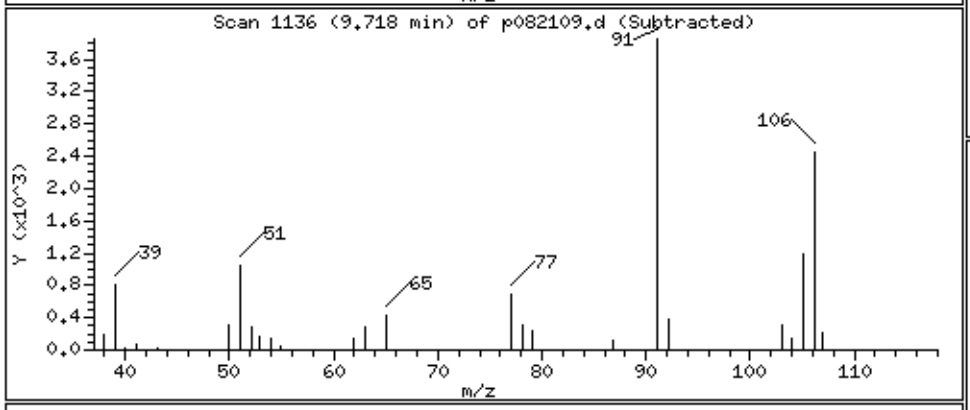
Column diameter: 0.25

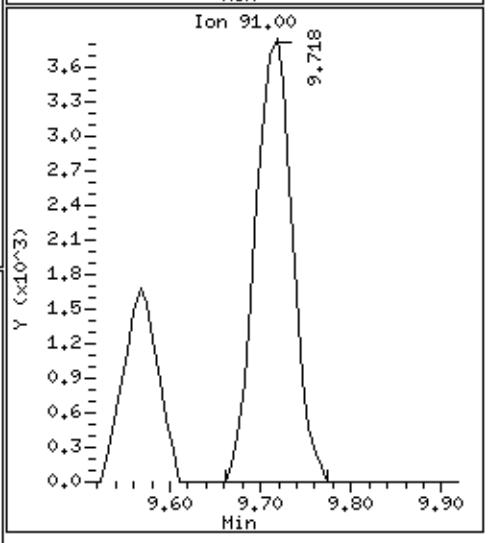
158 m,p-Xylene

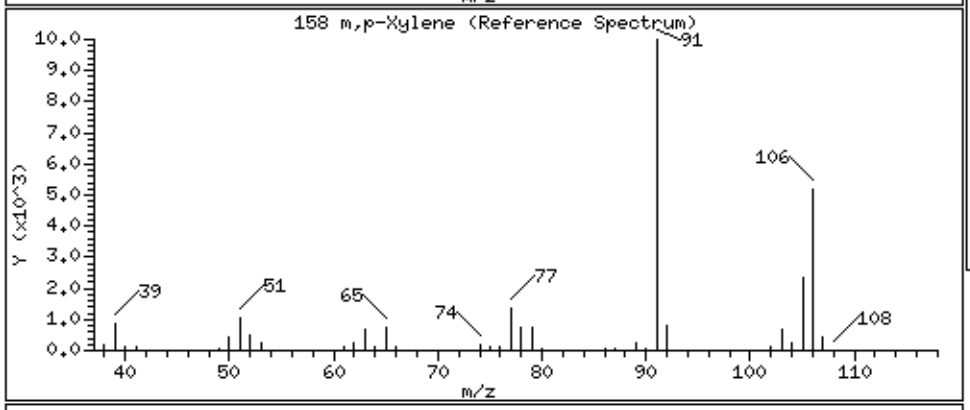
Concentration: 1.273 PPBV

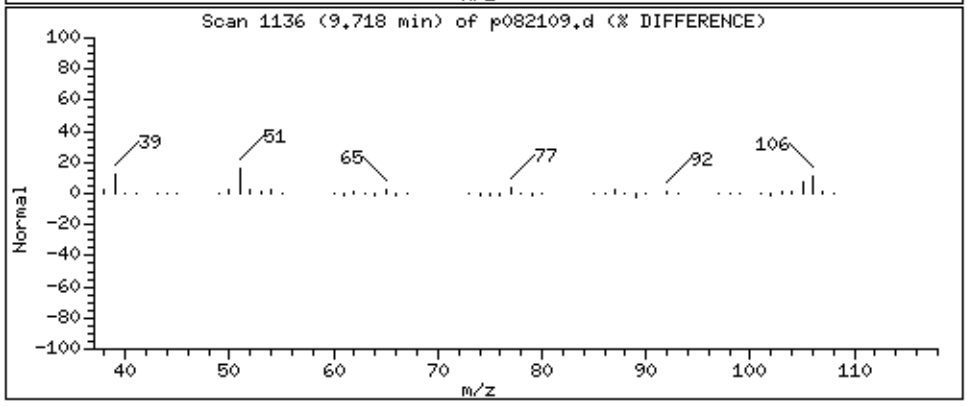












eurofins | Air Toxics

Client Sample ID: SSV-FSS02-02

Lab ID#: 2108390-22A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p082111**	**Date of Collection:**	**8/17/21 11:40:00 AM**
Dil. Factor:	**2.02**	**Date of Analysis:**	**8/21/21 04:46 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1,2-Tetrachloroethane	4.0	Not Detected	28	Not Detected
1,1,1-Trichloroethane	1.0	Not Detected	5.5	Not Detected
1,1,2,2-Tetrachloroethane	1.0	Not Detected	6.9	Not Detected
1,1,2-Trichloroethane	1.0	Not Detected	5.5	Not Detected
1,1-Dichloroethane	1.0	Not Detected	4.1	Not Detected
1,1-Dichloroethene	1.0	Not Detected	4.0	Not Detected
1,1-Difluoroethane	4.0	Not Detected	11	Not Detected
1,2,3-Trichloropropane	4.0	Not Detected	24	Not Detected
1,2,4-Trichlorobenzene	4.0	Not Detected	30	Not Detected
1,2,4-Trimethylbenzene	1.0	2.0	5.0	10
1,2-Dibromo-3-chloropropane	4.0	Not Detected	39	Not Detected
1,2-Dibromoethane (EDB)	1.0	Not Detected	7.8	Not Detected
1,2-Dichlorobenzene	1.0	Not Detected	6.1	Not Detected
1,2-Dichloroethane	1.0	Not Detected	4.1	Not Detected
1,2-Dichloropropane	1.0	Not Detected	4.7	Not Detected
1,3,5-Trimethylbenzene	1.0	Not Detected	5.0	Not Detected
1,3-Butadiene	1.0	Not Detected	2.2	Not Detected
1,3-Dichlorobenzene	1.0	Not Detected	6.1	Not Detected
1,4-Dichlorobenzene	1.0	Not Detected	6.1	Not Detected
1,4-Dioxane	4.0	Not Detected	14	Not Detected
2,2,4-Trimethylpentane	1.0	Not Detected	4.7	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.0	Not Detected	12	Not Detected
2-Hexanone	4.0	Not Detected	16	Not Detected
2-Propanol	4.0	Not Detected	9.9	Not Detected
3-Chloropropene	4.0	Not Detected	13	Not Detected
4-Ethyltoluene	1.0	1.7	5.0	8.3
4-Methyl-2-pentanone	1.0	Not Detected	4.1	Not Detected
Acetone	10	Not Detected	24	Not Detected
Acrolein	4.0	Not Detected	9.3	Not Detected
Acrylonitrile	4.0	Not Detected	8.8	Not Detected
alpha-Chlorotoluene	1.0	Not Detected	5.2	Not Detected
Benzene	1.0	Not Detected	3.2	Not Detected
Bromodichloromethane	1.0	Not Detected	6.8	Not Detected
Bromoform	1.0	Not Detected	10	Not Detected
Bromomethane	10	Not Detected	39	Not Detected
Carbon Disulfide	4.0	Not Detected	12	Not Detected
Carbon Tetrachloride	1.0	Not Detected	6.4	Not Detected
Chlorobenzene	1.0	Not Detected	4.6	Not Detected
Chloroethane	4.0	Not Detected	11	Not Detected
Chloroform	1.0	Not Detected	4.9	Not Detected
Chloromethane	10	Not Detected	21	Not Detected
cis-1,2-Dichloroethene	1.0	Not Detected	4.0	Not Detected

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Client Sample ID: SSV-FSS02-02

Lab ID#: 2108390-22A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p082111**	**Date of Collection:**	**8/17/21 11:40:00 AM**
Dil. Factor:	**2.02**	**Date of Analysis:**	**8/21/21 04:46 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,3-Dichloropropene	1.0	Not Detected	4.6	Not Detected
Cumene	1.0	Not Detected	5.0	Not Detected
Cyclohexane	1.0	Not Detected	3.5	Not Detected
Dibromochloromethane	1.0	Not Detected	8.6	Not Detected
Dibromomethane	4.0	Not Detected	29	Not Detected
Ethanol	10	12	19	22
Ethyl Acetate	4.0	Not Detected	14	Not Detected
Ethyl Benzene	1.0	Not Detected	4.4	Not Detected
Ethyl-tert-butyl ether	4.0	Not Detected	17	Not Detected
Freon 11	1.0	Not Detected	5.7	Not Detected
Freon 12	1.0	Not Detected	5.0	Not Detected
Freon 113	1.0	Not Detected	7.7	Not Detected
Freon 114	1.0	Not Detected	7.1	Not Detected
Freon 134a	4.0	Not Detected	17	Not Detected
Heptane	1.0	Not Detected	4.1	Not Detected
Hexachlorobutadiene	4.0	Not Detected	43	Not Detected
Hexachloroethane	4.0	Not Detected	39	Not Detected
Hexane	1.0	28	3.6	97
Iodomethane	10	Not Detected	59	Not Detected
Isopropyl ether	4.0	Not Detected	17	Not Detected
m,p-Xylene	1.0	3.4	4.4	15
Methyl tert-butyl ether	4.0	Not Detected	14	Not Detected
Methylene Chloride	10	Not Detected	35	Not Detected
Naphthalene	2.0	Not Detected	10	Not Detected
o-Xylene	1.0	1.6	4.4	7.1
Propylbenzene	1.0	Not Detected	5.0	Not Detected
Propylene	4.0	4.8	7.0	8.2
Styrene	1.0	Not Detected	4.3	Not Detected
tert-Amyl methyl ether	4.0	Not Detected	17	Not Detected
tert-Butyl alcohol	4.0	Not Detected	12	Not Detected
Tetrachloroethene	1.0	9.3	6.8	63
Tetrahydrofuran	1.0	Not Detected	3.0	Not Detected
Toluene	1.0	2.0	3.8	7.7
TPH ref. to Gasoline (MW=100)	100	130	410	530
trans-1,2-Dichloroethene	1.0	Not Detected	4.0	Not Detected
trans-1,3-Dichloropropene	1.0	Not Detected	4.6	Not Detected
Trichloroethene	1.0	Not Detected	5.4	Not Detected
Vinyl Acetate	4.0	Not Detected	14	Not Detected
Vinyl Bromide	4.0	Not Detected	18	Not Detected
Vinyl Chloride	1.0	Not Detected	2.6	Not Detected

Container Type: 1 Liter Summa Canister

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Client Sample ID: SSV-FSS02-02

Lab ID#: 2108390-22A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p082111**	**Date of Collection:**	**8/17/21 11:40:00 AM**
Dil. Factor:	**2.02**	**Date of Analysis:**	**8/21/21 04:46 PM**

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	109	70-130
4-Bromofluorobenzene	105	70-130

US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/21AUG21.b/p082111.d
Lab Smp Id: 2108390-22A
Inj Date : 21-AUG-2021 16:46
Operator : mb Inst ID: msdp.i
Smp Info : 200ml 1L1647
Misc Info : 4.5 Hg->10.6 psi
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/21AUG21.b/p21q0519a.m
Meth Date : 23-Aug-2021 07:32 lk8g Quant Type: ISTD
Cal Date : 19-MAY-2021 19:45 Cal File: p051915.d
Als bottle: 2
Dil Factor: 2.02000
Integrator: HP RTE Compound Sublist: AEC25677.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE		(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 90 Bromochloromethane						CAS #: 74-97-5		
5.785	5.785 (1.000)	130	105025	25.0000			80.00- 120.00	100.00
5.785	5.785 (1.000)	128	81449				48.23- 108.23	77.55
5.785	5.785 (1.000)	49	236873				150.57- 210.57	225.54
* 108 1,4-Difluorobenzene						CAS #: 540-36-3		
6.666	6.666 (1.000)	114	376574	25.0000			80.00- 120.00	100.00
6.666	6.666 (1.000)	88	56256				0.00- 45.71	14.94
* 153 Chlorobenzene-d5						CAS #: 3114-55-4		
9.460	9.460 (1.000)	117	388106	25.0000			80.00- 120.00	100.00
9.460	9.460 (1.000)	82	197640				23.78- 83.78	50.92
$ 104 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
6.315	6.315 (1.092)	65	157761	27.2187	27.219		80.00- 120.00	100.00
6.315	6.315 (1.092)	67	73070				27.21- 87.21	46.32
$ 134 Toluene-d8						CAS #: 2037-26-5		
7.891	7.891 (1.184)	98	412625	25.2334	25.233		80.00- 120.00	100.00
7.891	7.891 (1.184)	70	44072				0.00- 40.44	10.68

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 134 Toluene-d8 (continued)							
7.891	7.891 (1.184)	100	265583			34.95- 94.95	64.36
$ 170 4-Bromofluorobenzene					CAS #: 460-00-4		
10.921	10.921 (1.154)	174	261731	26.2621	26.262	80.00- 120.00	100.00
10.921	10.921 (1.154)	95	307334			95.92- 155.92	117.42
10.921	10.921 (1.154)	176	251607			66.89- 126.89	96.13
5 Propylene					CAS #: 115-07-1		
1.688	1.689 (0.292)	41	11369	2.36557	4.778	80.00- 120.00	100.00
1.688	1.689 (0.292)	42	5775			35.28- 95.28	50.80
1.688	1.689 (0.292)	39	9114			38.35- 98.35	80.16
39 Ethanol					CAS #: 64-17-5		
3.257	3.250 (0.563)	46	6128	5.88367	11.885	80.00- 120.00	100.00
3.257	3.250 (0.563)	45	17573			511.19- 571.19	286.75
67 Hexane					CAS #: 110-54-3		
4.704	4.697 (0.813)	57	141380	13.6650	27.603	80.00- 120.00	100.00
4.696	4.697 (0.812)	43	114324			37.52- 97.52	80.86
4.704	4.697 (0.813)	86	14546			0.00- 41.48	10.29
137 Toluene					CAS #: 108-88-3		
7.956	7.956 (1.193)	91	17432	1.01675	2.054	80.00- 120.00	100.00
7.956	7.956 (1.193)	92	9461			28.38- 88.38	54.27
142 Tetrachloroethene					CAS #: 127-18-4		
8.471	8.464 (0.895)	166	40866	4.62011	9.333	80.00- 120.00	100.00
8.471	8.464 (0.895)	129	32329			47.84- 107.84	79.11
8.471	8.464 (0.895)	131	31193			45.29- 105.29	76.33
158 m,p-Xylene					CAS #: 108-38-3		
9.718	9.718 (1.027)	106	17228	1.70697	3.448	80.00- 120.00	100.00
9.718	9.718 (1.027)	91	33452			163.73- 223.73	194.17
164 o-Xylene					CAS #: 95-47-6		
10.233	10.226 (1.082)	106	7815	0.80817	1.632	80.00- 120.00	100.00
10.226	10.226 (1.081)	91	16224			177.45- 237.45	207.59
183 4-Ethyltoluene					CAS #: 622-96-8		
11.251	11.287 (1.189)	120	8186	0.83572	1.688	80.00- 120.00	100.00
11.251	11.287 (1.189)	105	23418			284.55- 344.55	286.06
190 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
11.816	11.817 (1.249)	105	25945	1.01926	2.059	80.00- 120.00	100.00
11.816	11.817 (1.249)	120	11773			19.05- 79.05	45.38

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p082111.d
Lab Smp Id: 2108390-22A
Analysis Type: VOA
Quant Type: ISTD
Operator: mb
Method File: /chem/msdp.i/21AUG21.b/p21q0519a.m
Misc Info: 4.5 Hg->10.6 psi

Calibration Date: 21-AUG-2021
Calibration Time: 09:37
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	102894	61736	144052	105025	2.07
108 1,4-Difluorobenze	387356	232414	542298	376574	-2.78
153 Chlorobenzene-d5	386134	231680	540588	388106	0.51

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.79	5.46	6.12	5.79	-0.00
108 1,4-Difluorobenze	6.67	6.34	7.00	6.67	-0.00
153 Chlorobenzene-d5	9.46	9.13	9.79	9.46	-0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 24-Aug-2021 12:19

US32TAR1

RECOVERY REPORT

Client Name: Client SDG: 21AUG21
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 2108390-22A
Level: LOW Operator: mb
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT20_new.spk Quant Type: ISTD
Sublist File: AEC25677.sub
Method File: /chem/msdp.i/21AUG21.b/p21q0519a.m
Misc Info: 4.5 Hg->10.6 psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 104 1,2-Dichloroethan	25.000	27.219	108.87	70-130
$ 134 Toluene-d8	25.000	25.233	100.93	70-130
$ 170 4-Bromofluorobenz	25.000	26.262	105.05	70-130

Data File: /chem/msdp.i/21AUG21.b/p082111.d

Date : 21-AUG-2021 16:46

Client ID:

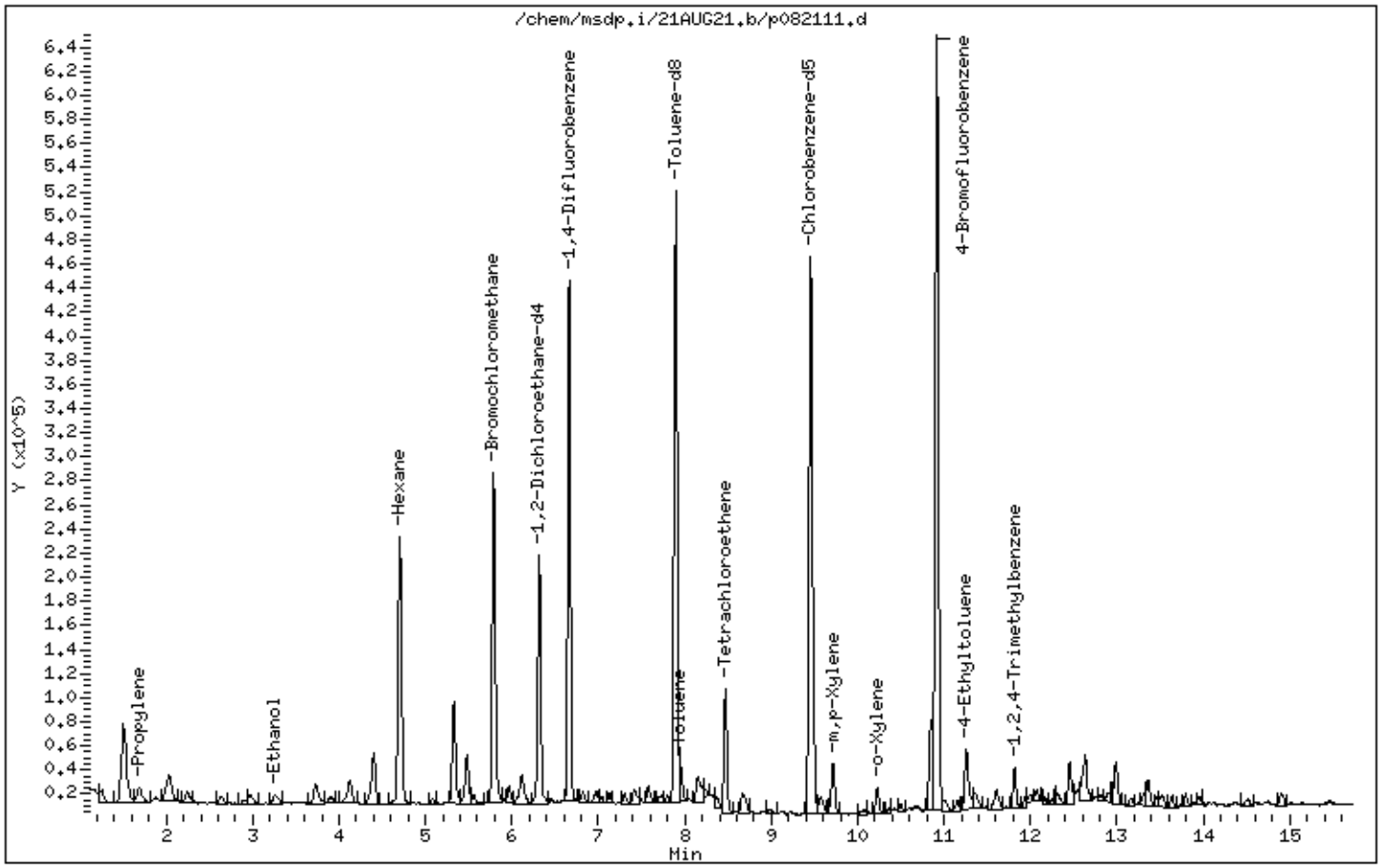
Instrument: msdp.i

Sample Info: 200ml 1L1647

Operator: mb

Column phase: RTX-624

Column diameter: 0.25



Data File: /chem/msdp.i/21AUG21.b/p082111.d

Date : 21-AUG-2021 16:46

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1L1647

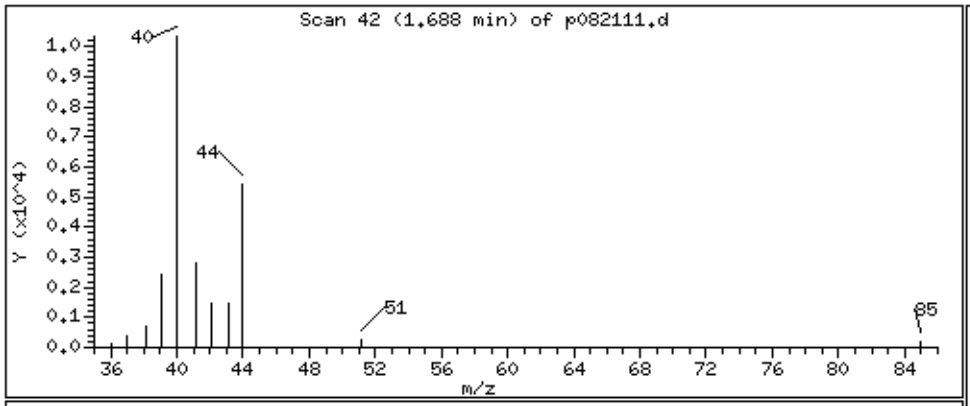
Operator: mb

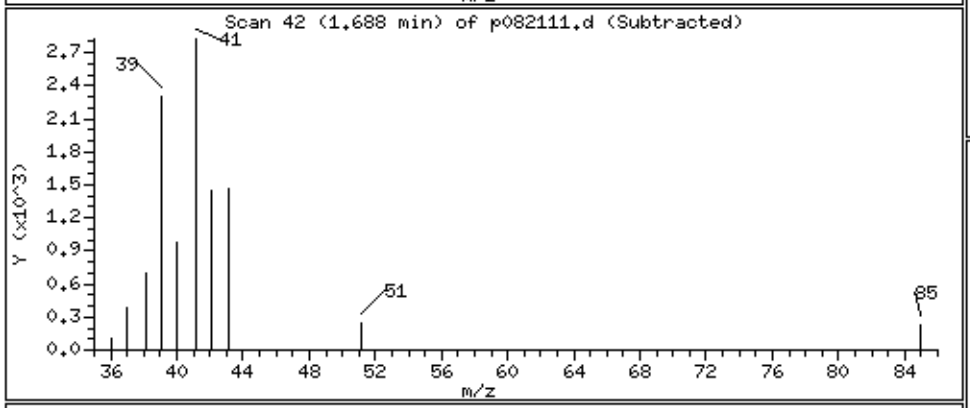
Column phase: RTX-624

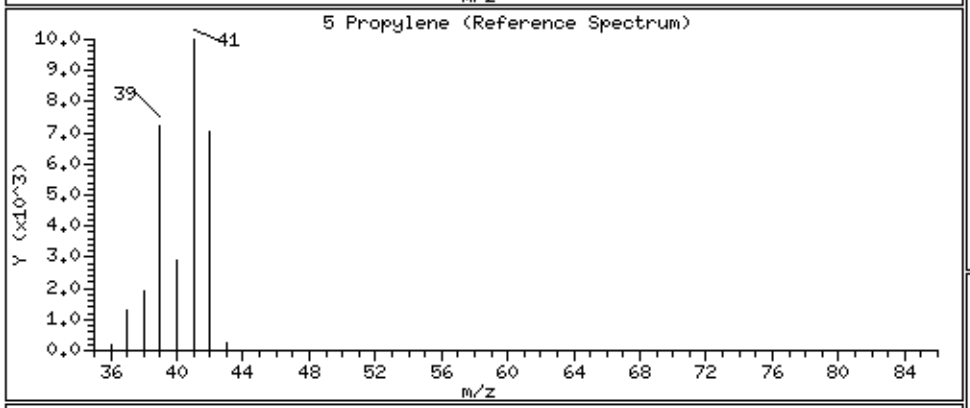
Column diameter: 0.25

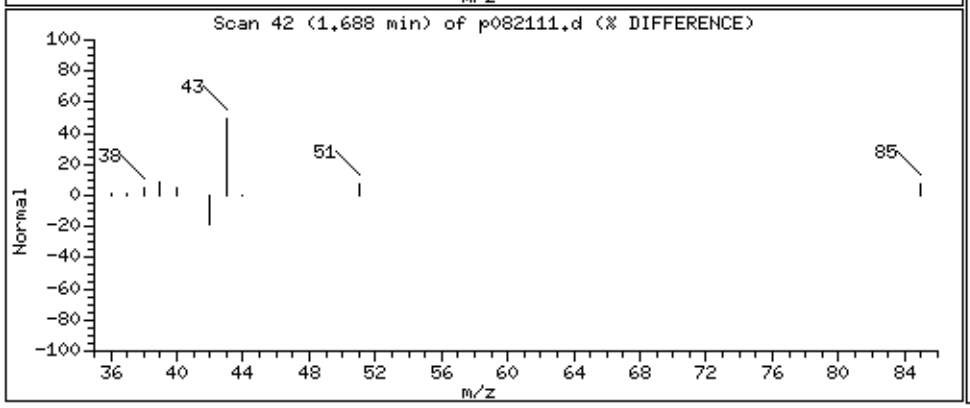
5 Propylene

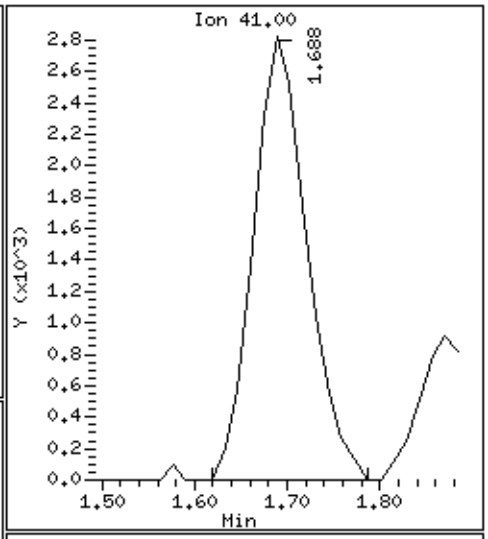
Concentration: 4.778 PPBV

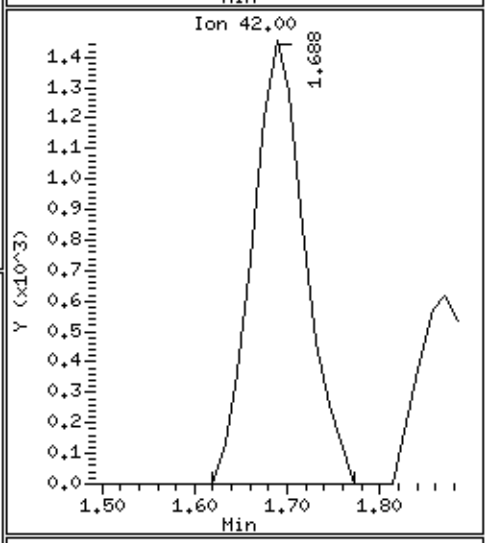


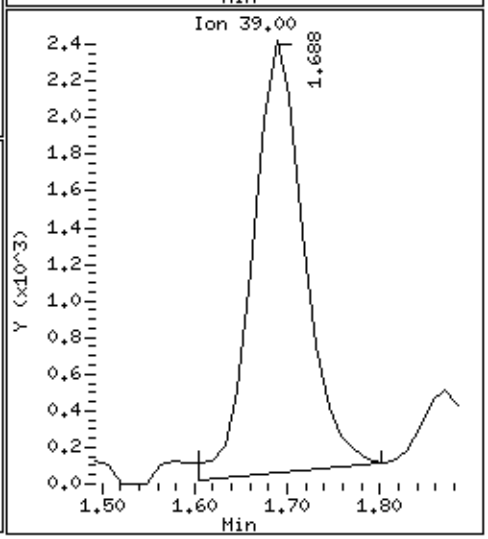












Data File: /chem/msdp.i/21AUG21.b/p082111.d

Date : 21-AUG-2021 16:46

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1L1647

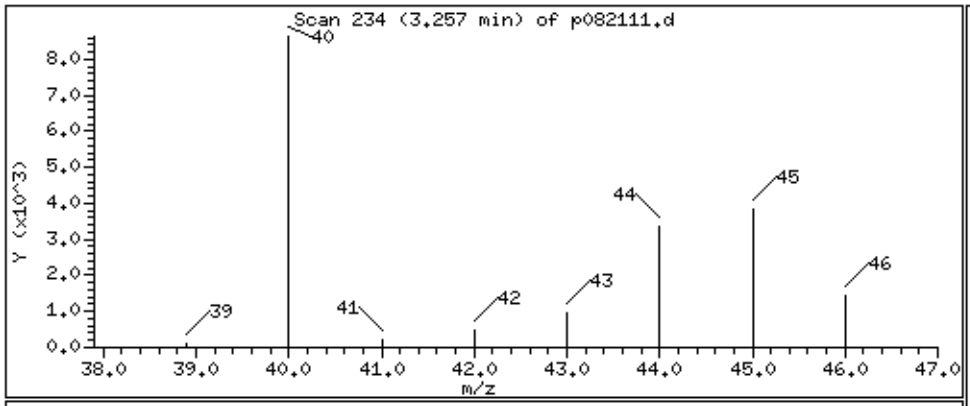
Operator: mb

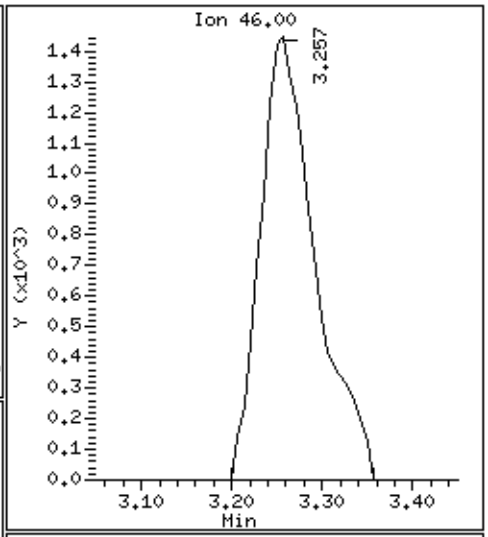
Column phase: RTX-624

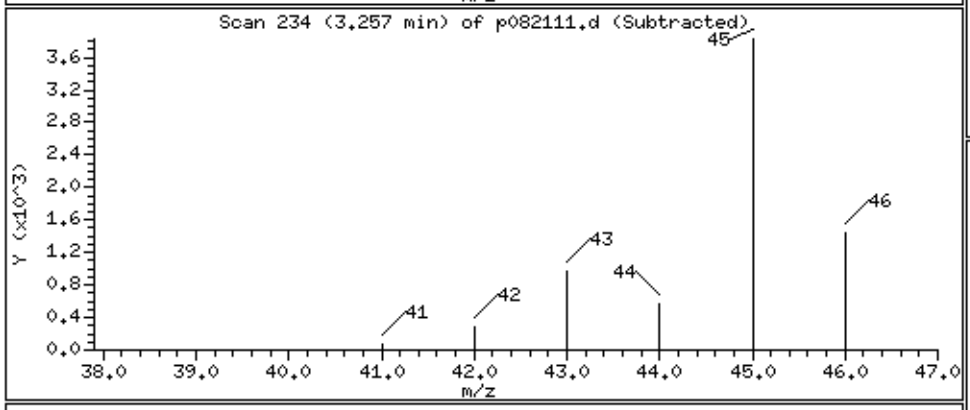
Column diameter: 0.25

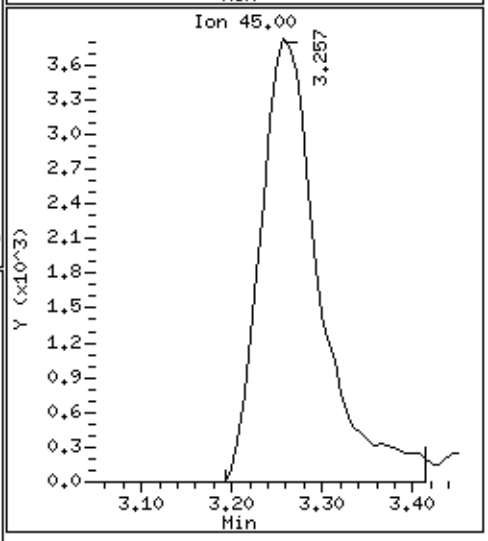
39 Ethanol

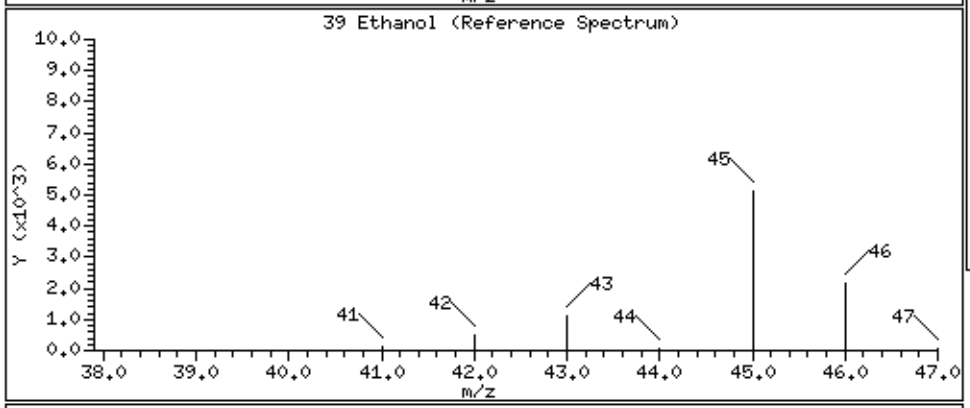
Concentration: 11.885 PPBV

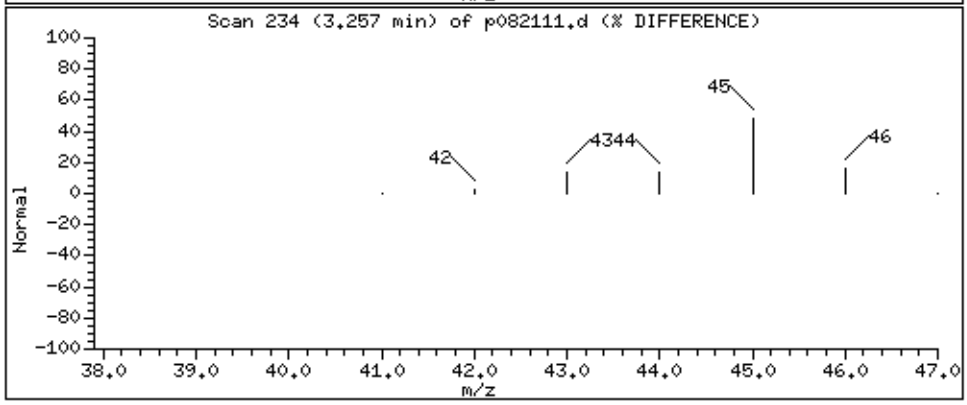












Data File: /chem/msdp.i/21AUG21.b/p082111.d

Date : 21-AUG-2021 16:46

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1L1647

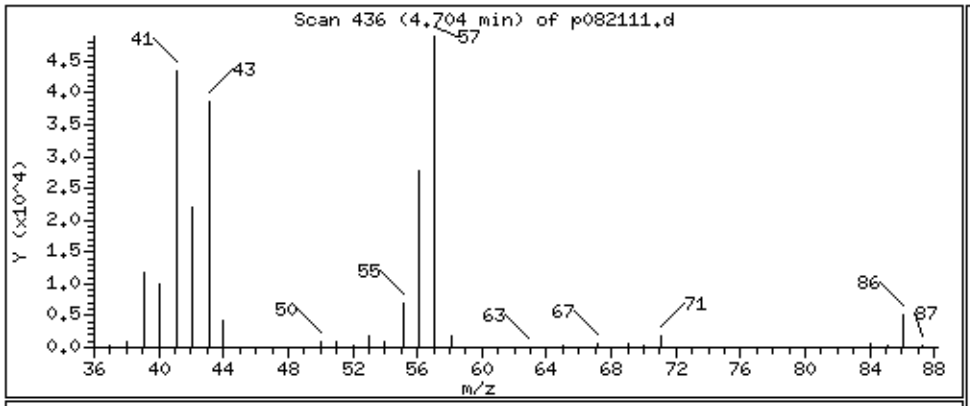
Operator: mb

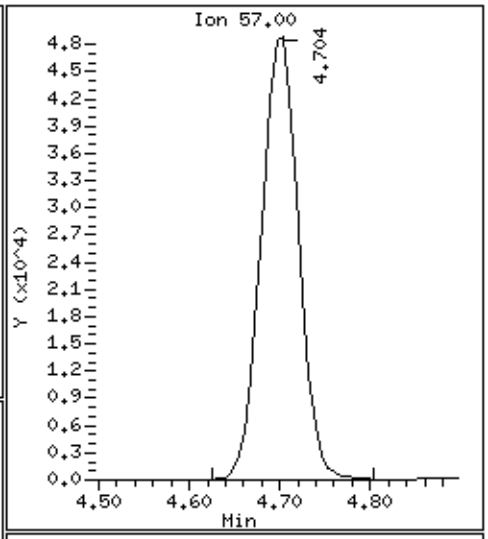
Column phase: RTX-624

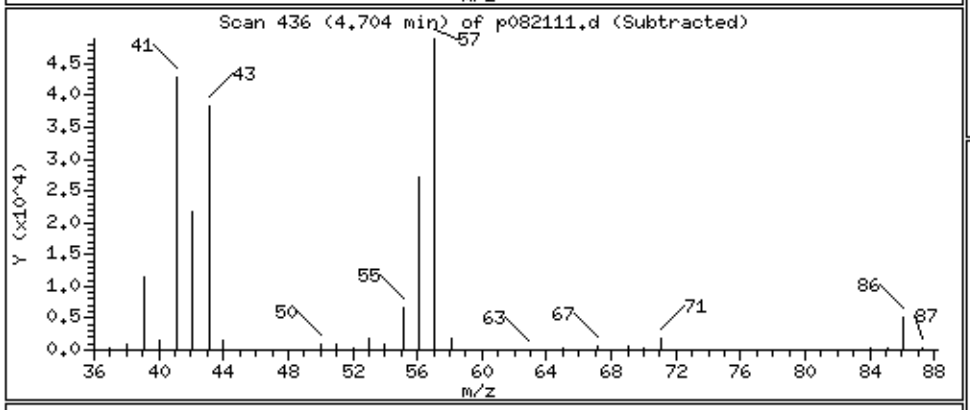
Column diameter: 0.25

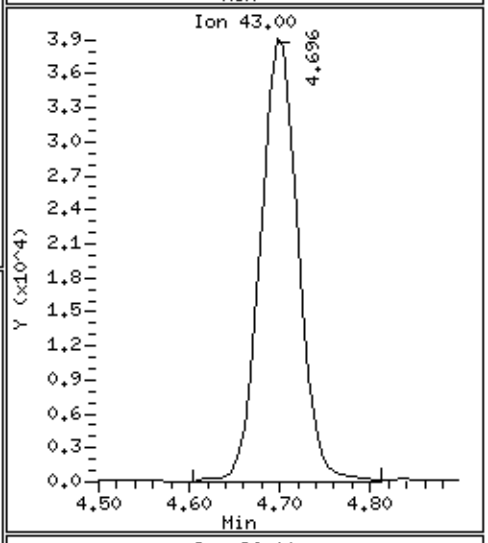
67 Hexane

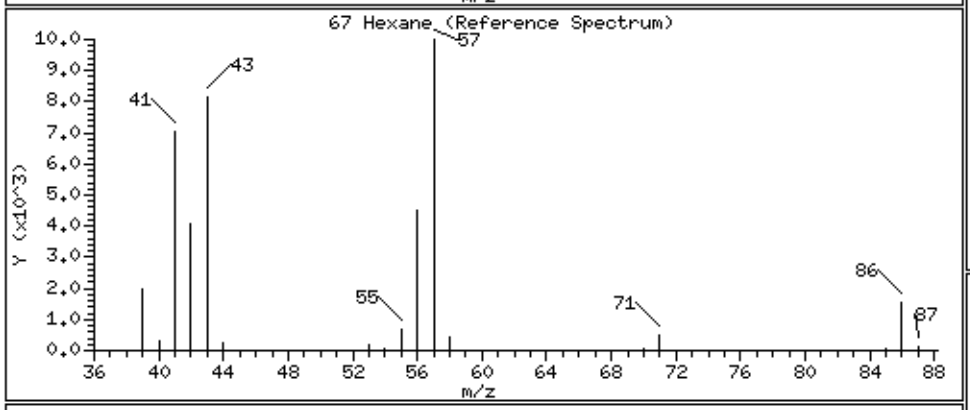
Concentration: 27.603 PPBV

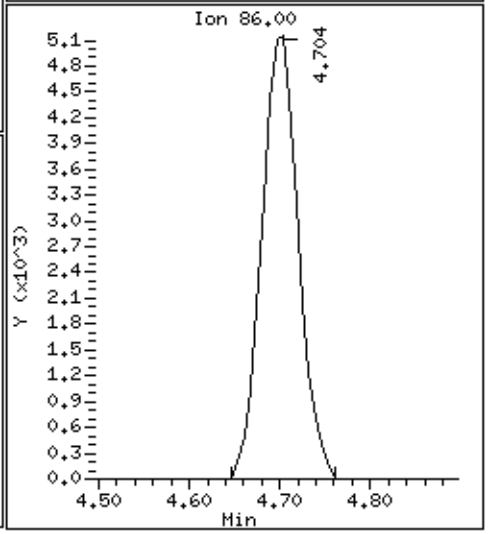


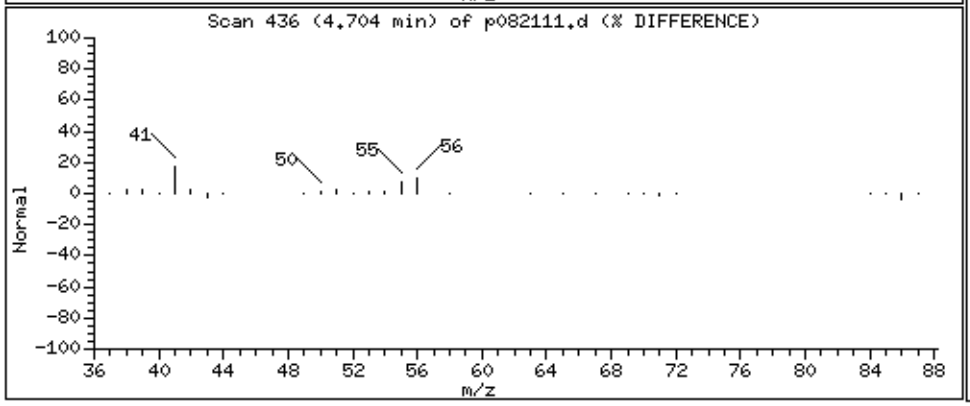












Data File: /chem/msdp.i/21AUG21.b/p082111.d

Date : 21-AUG-2021 16:46

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1L1647

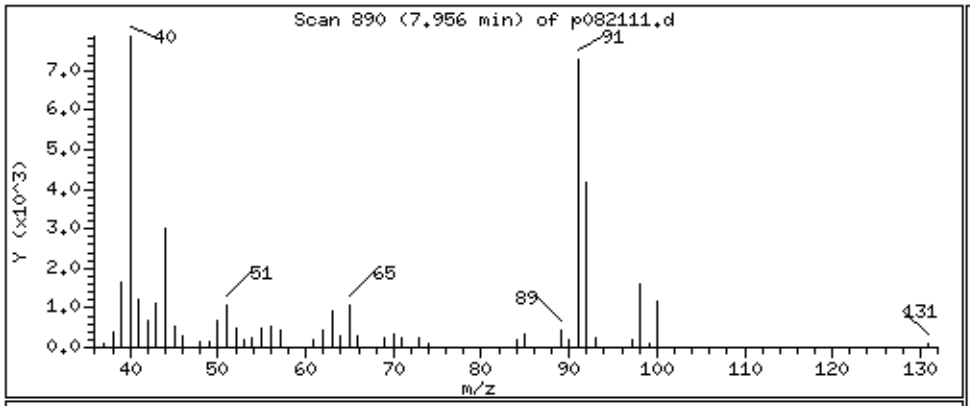
Operator: mb

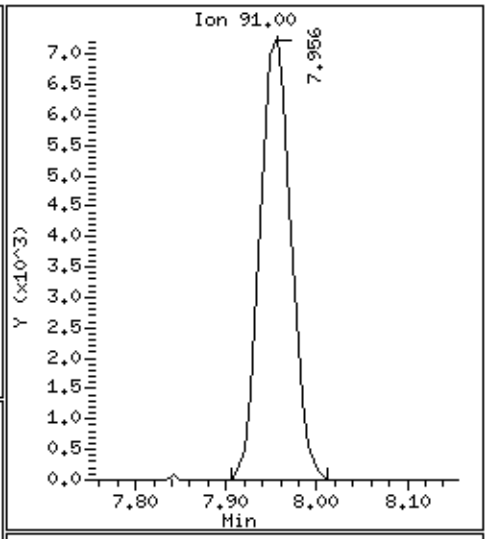
Column phase: RTX-624

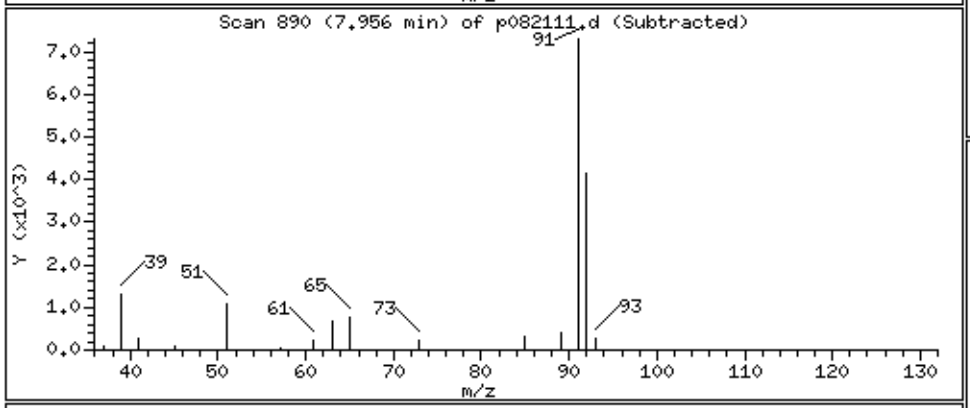
Column diameter: 0.25

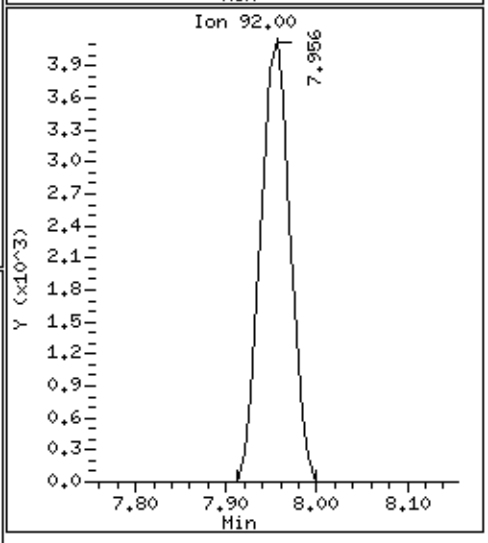
137 Toluene

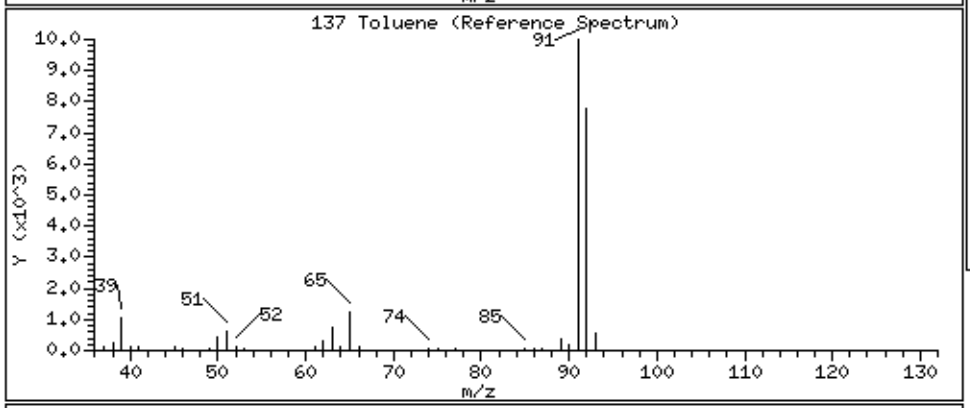
Concentration: 2.054 PPBV

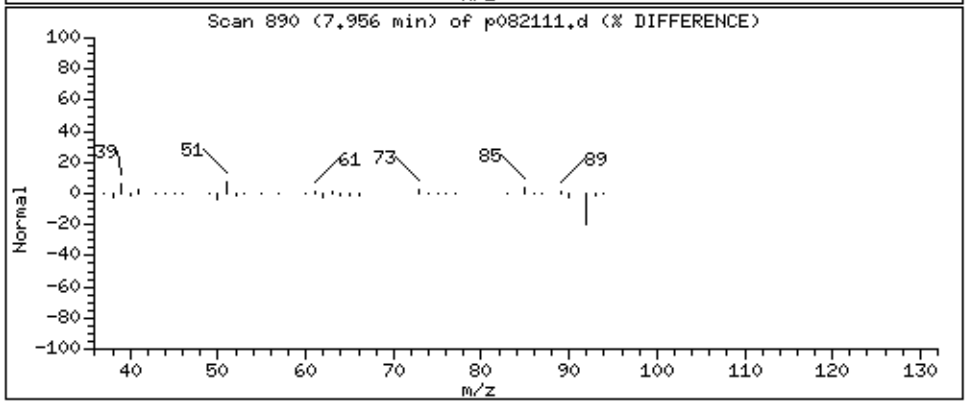












Data File: /chem/msdp.i/21AUG21.b/p082111.d

Date : 21-AUG-2021 16:46

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1L1647

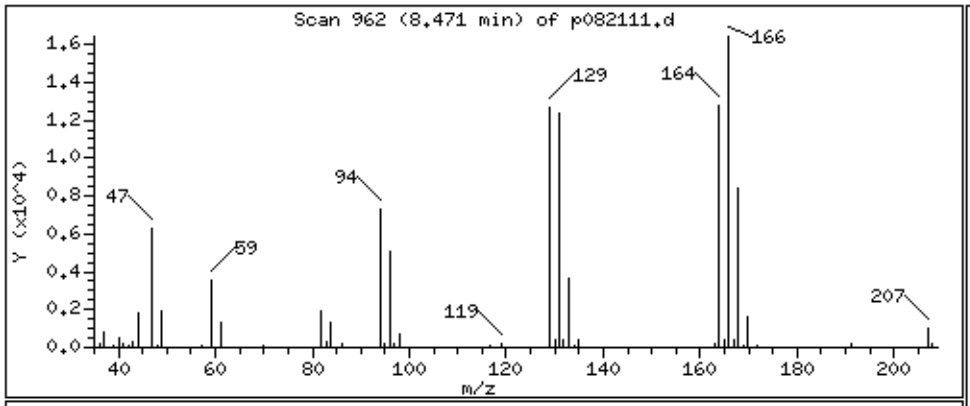
Operator: mb

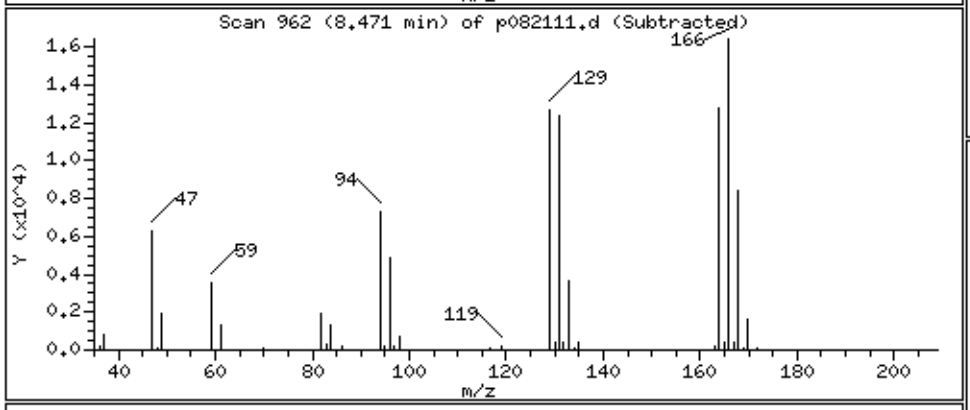
Column phase: RTX-624

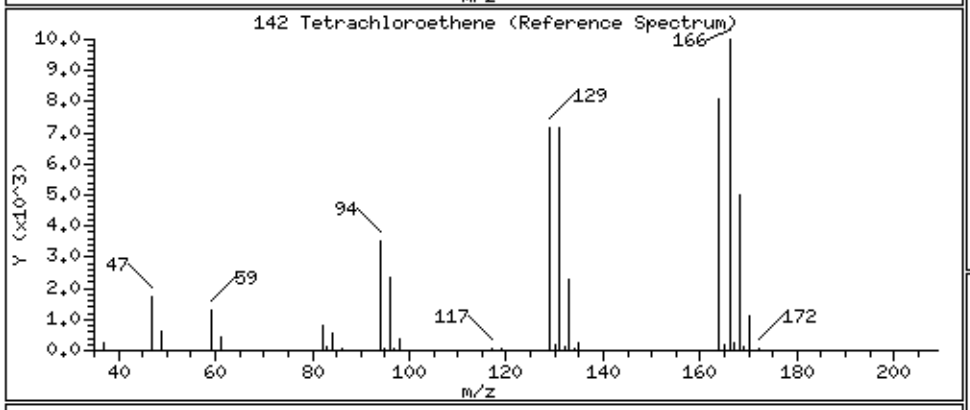
Column diameter: 0.25

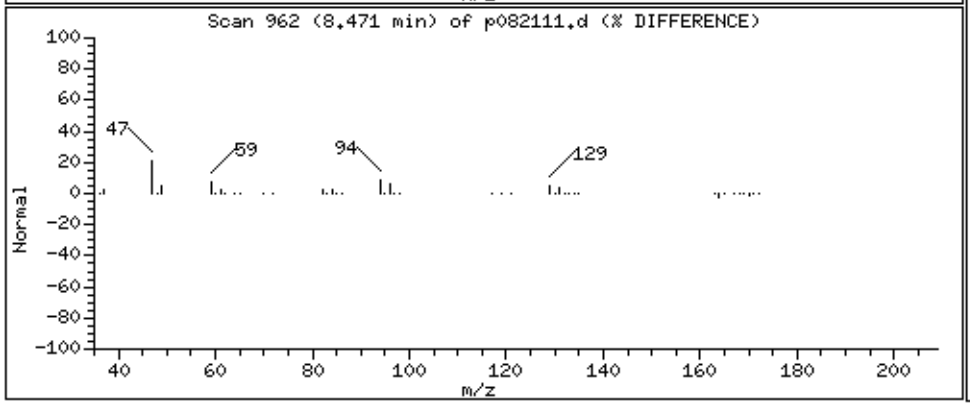
142 Tetrachloroethene

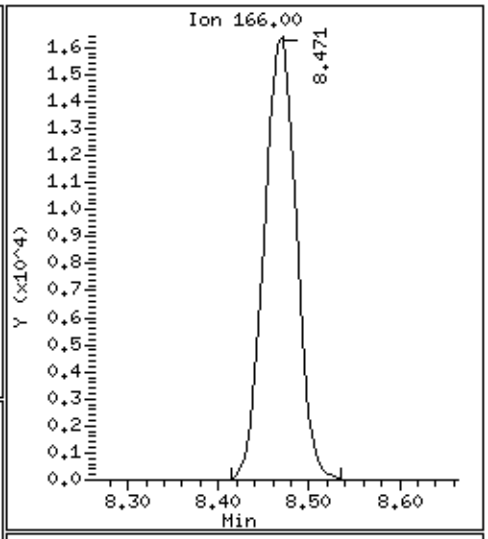
Concentration: 9.333 PPBV

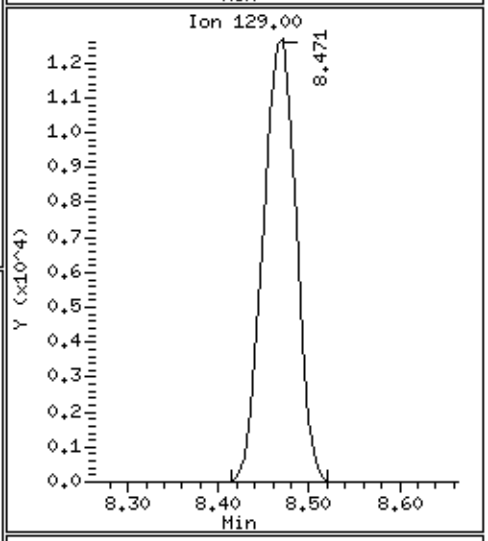


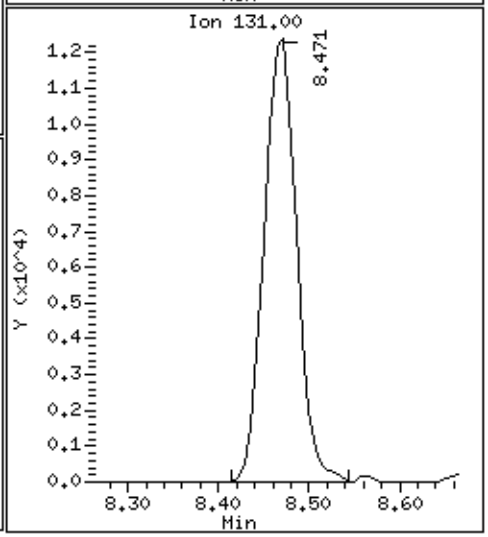












Data File: /chem/msdp.i/21AUG21.b/p082111.d

Page 7

Date : 21-AUG-2021 16:46

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1L1647

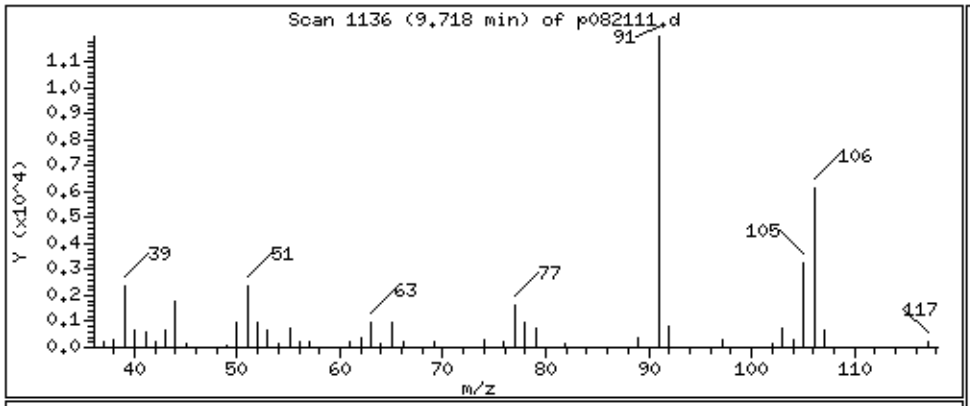
Operator: mb

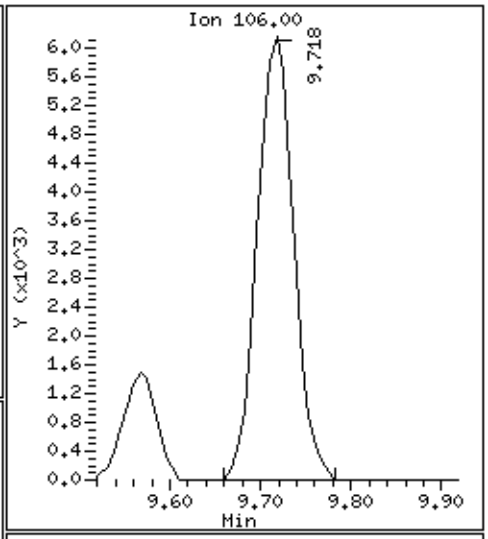
Column phase: RTX-624

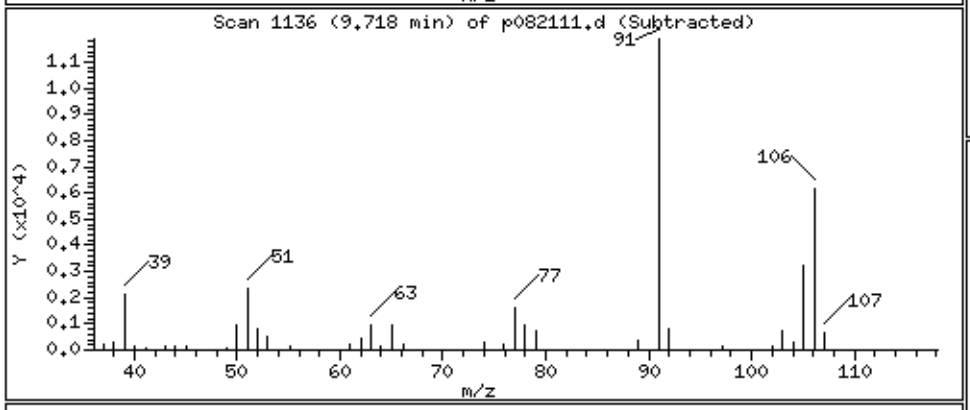
Column diameter: 0.25

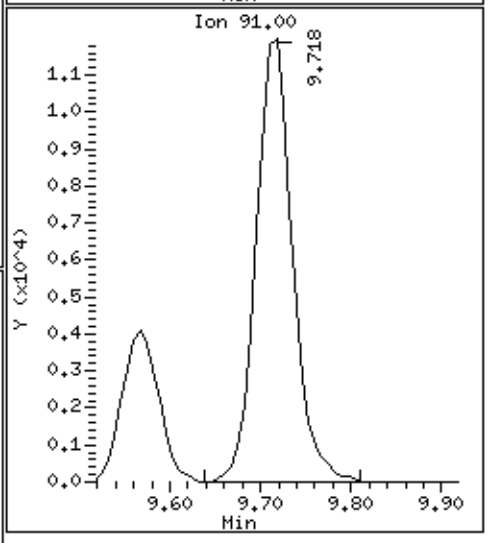
158 m,p-Xylene

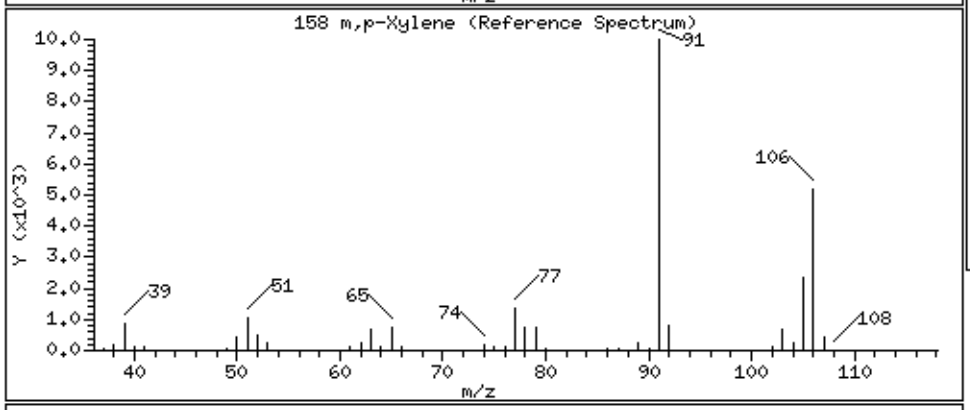
Concentration: 3.448 PPBV

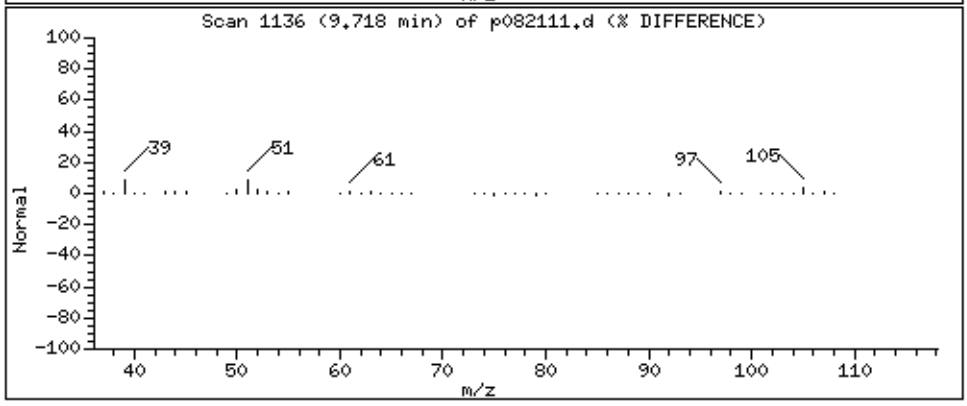












Data File: /chem/msdp.i/21AUG21.b/p082111.d

Date : 21-AUG-2021 16:46

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1L1647

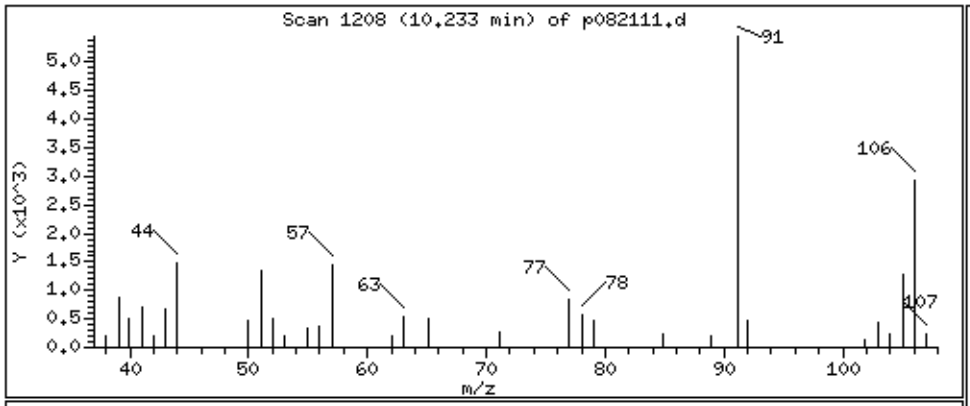
Operator: mb

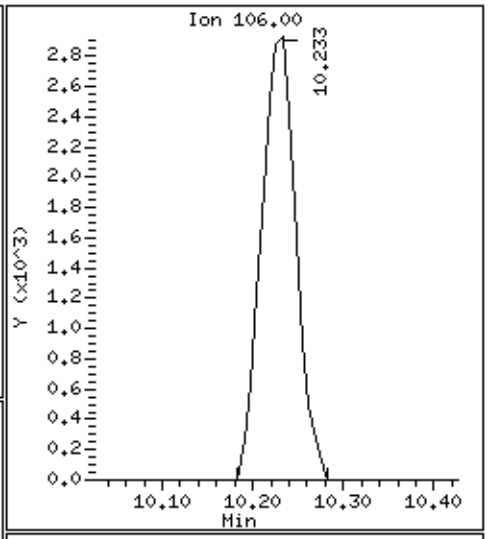
Column phase: RTX-624

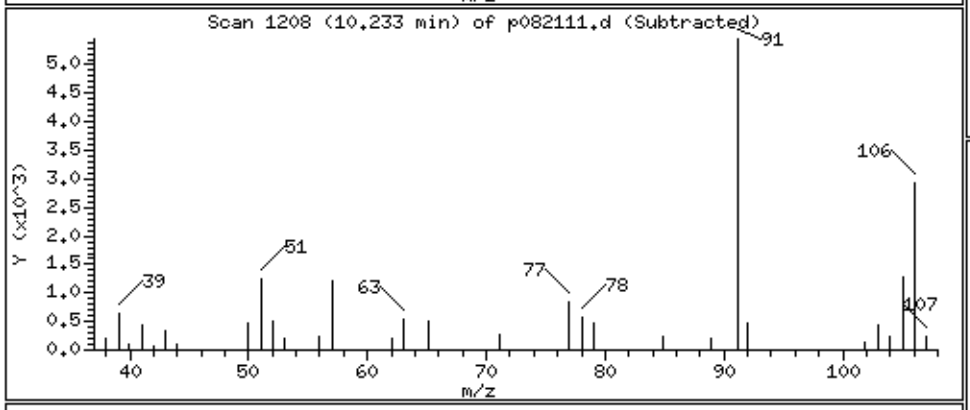
Column diameter: 0.25

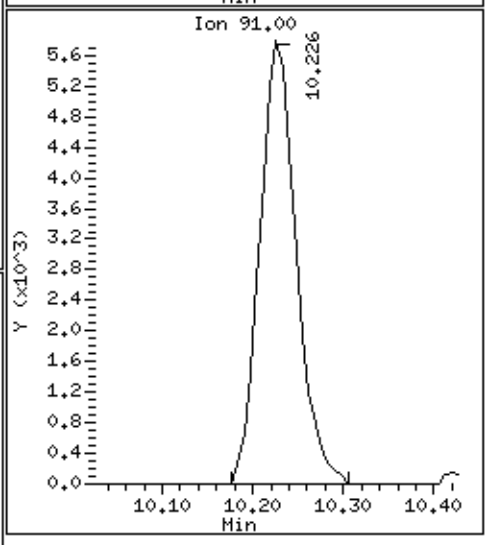
164 o-Xylene

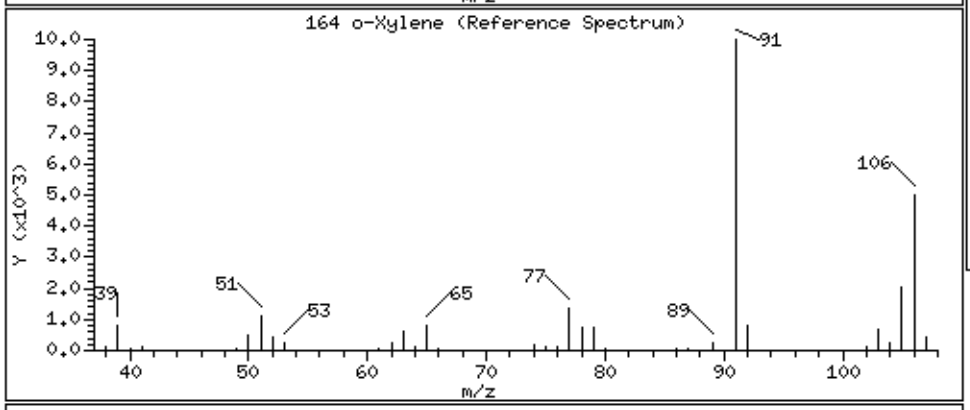
Concentration: 1.632 PPBV

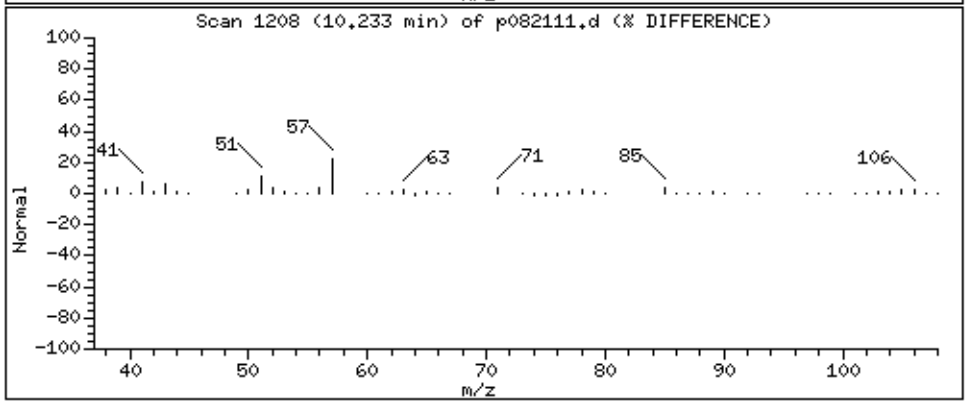












Data File: /chem/msdp.i/21AUG21.b/p082111.d

Date : 21-AUG-2021 16:46

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1L1647

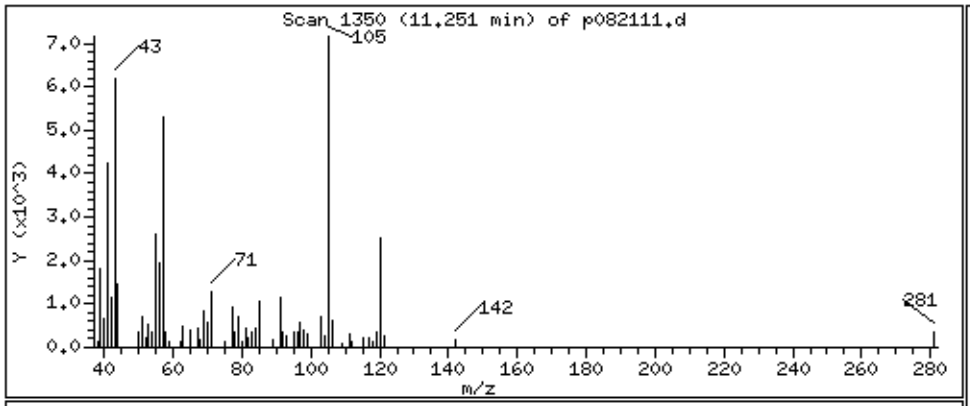
Operator: mb

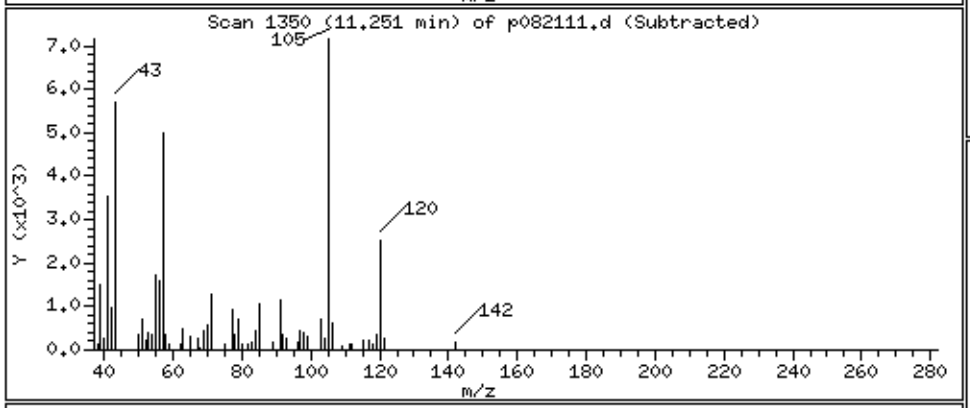
Column phase: RTX-624

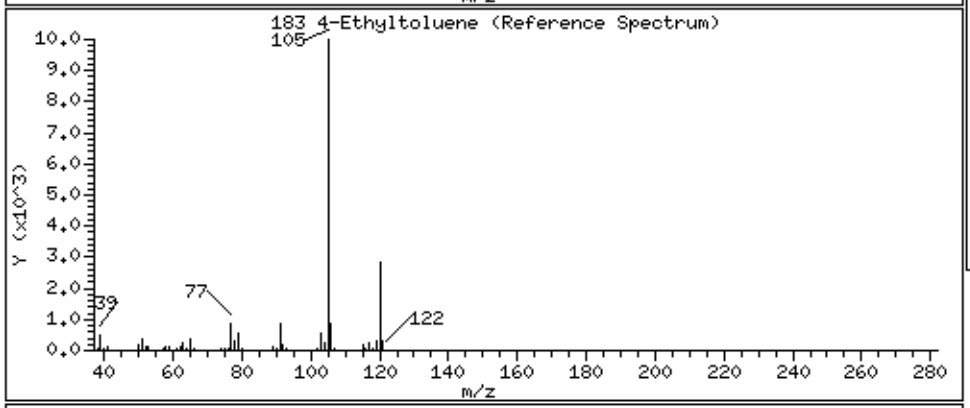
Column diameter: 0.25

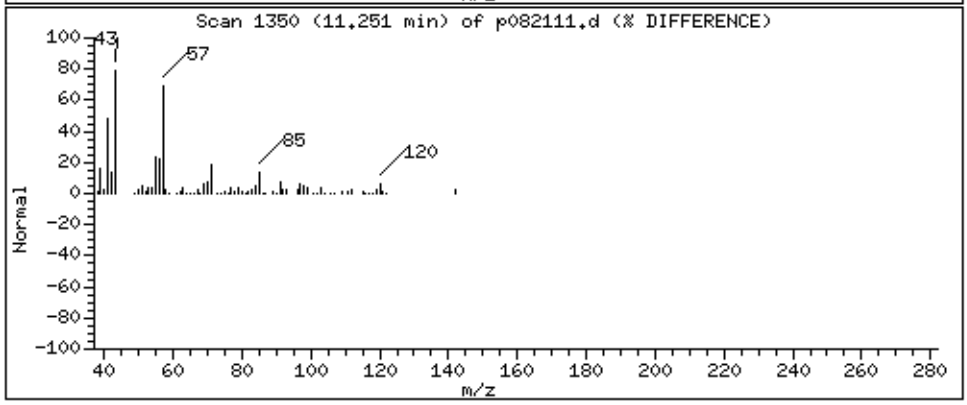
183 4-Ethyltoluene

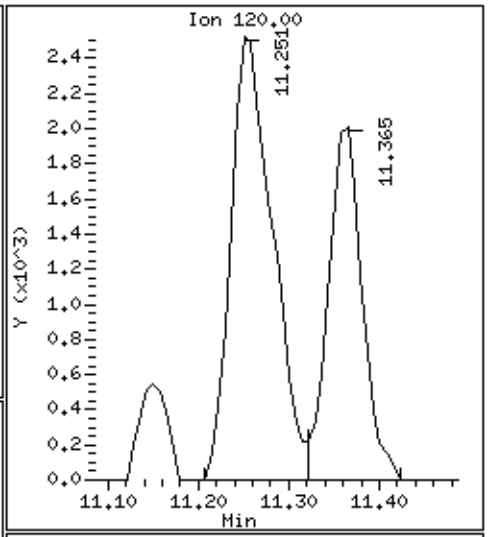
Concentration: 1.688 PPBV

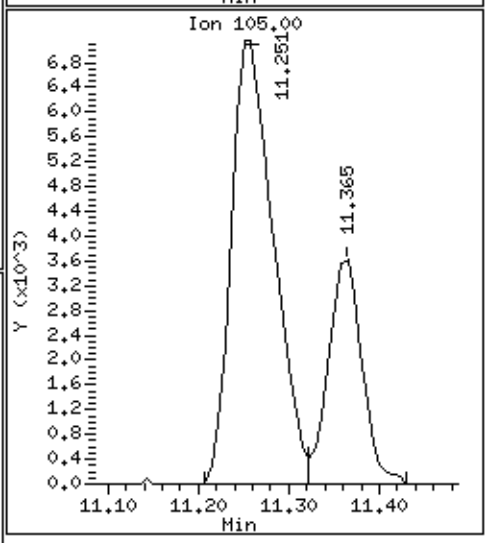












Data File: /chem/msdp.i/21AUG21.b/p082111.d

Date : 21-AUG-2021 16:46

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1L1647

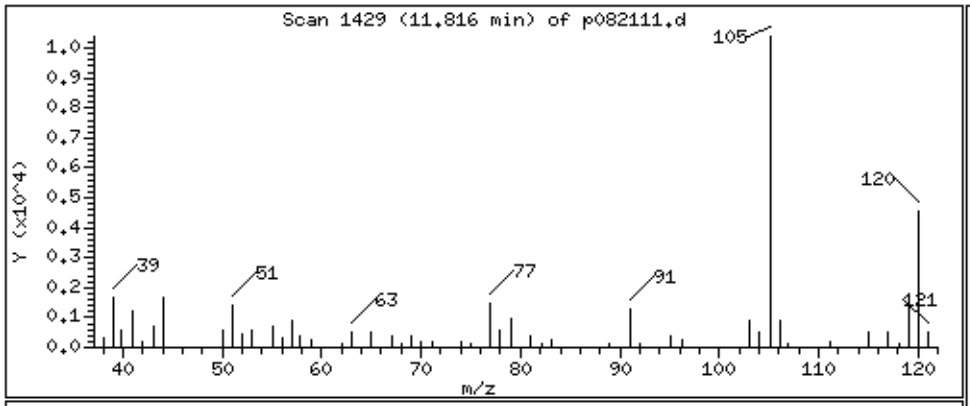
Operator: mb

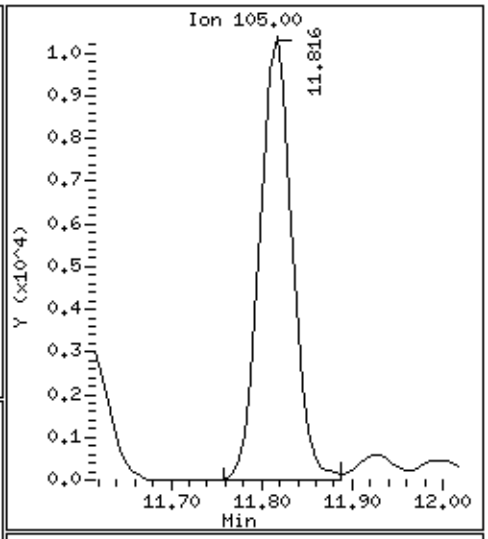
Column phase: RTX-624

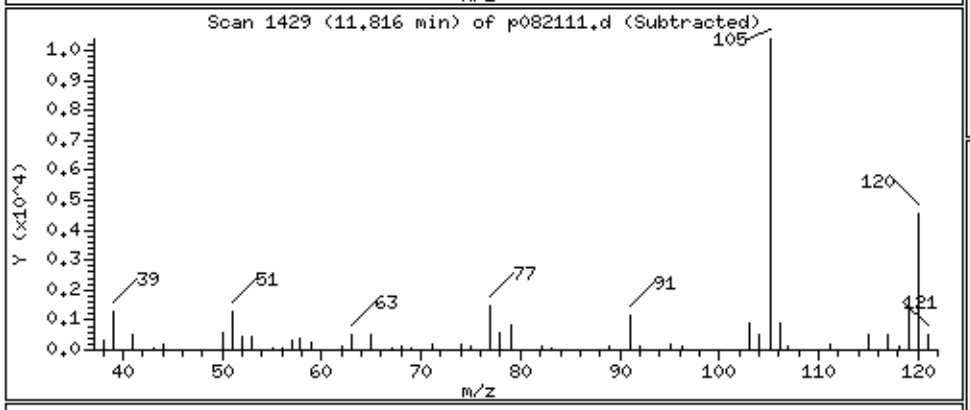
Column diameter: 0.25

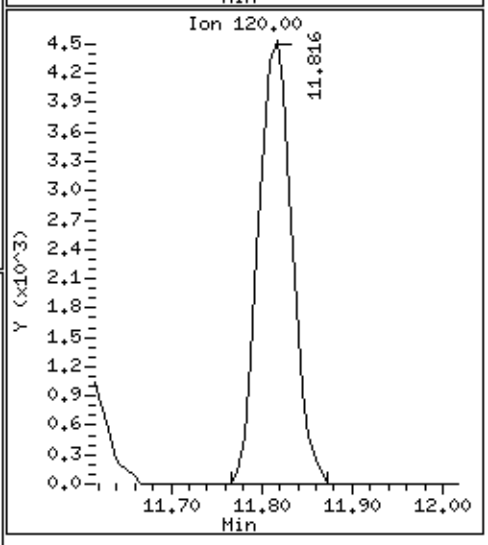
190 1,2,4-Trimethylbenzene

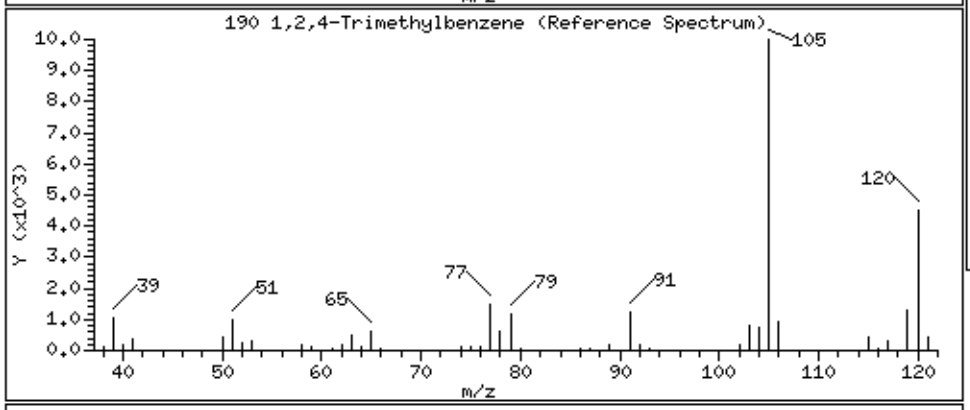
Concentration: 2.059 PPBV

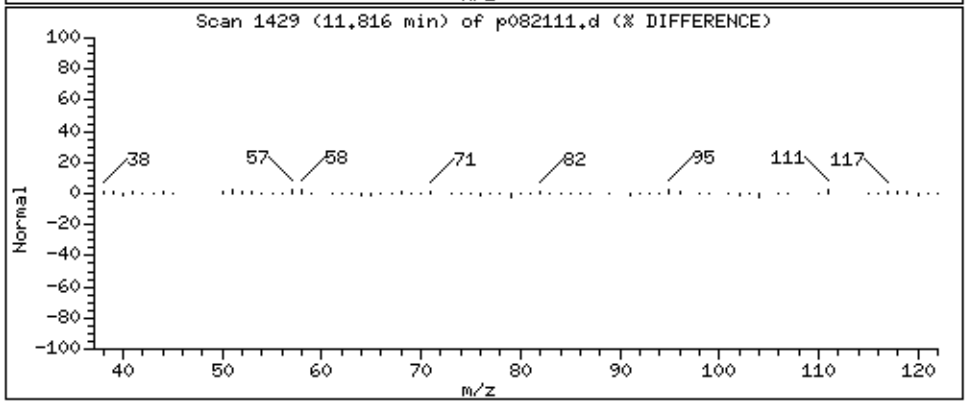












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Client Sample ID: SSV-GSS01-02

Lab ID#: 2108390-23A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p082112**	**Date of Collection:**	**8/17/21 12:23:00 PM**
Dil. Factor:	**2.06**	**Date of Analysis:**	**8/21/21 05:16 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1,2-Tetrachloroethane	4.1	Not Detected	28	Not Detected
1,1,1-Trichloroethane	1.0	Not Detected	5.6	Not Detected
1,1,2,2-Tetrachloroethane	1.0	Not Detected	7.1	Not Detected
1,1,2-Trichloroethane	1.0	Not Detected	5.6	Not Detected
1,1-Dichloroethane	1.0	Not Detected	4.2	Not Detected
1,1-Dichloroethene	1.0	Not Detected	4.1	Not Detected
1,1-Difluoroethane	4.1	Not Detected	11	Not Detected
1,2,3-Trichloropropane	4.1	Not Detected	25	Not Detected
1,2,4-Trichlorobenzene	4.1	Not Detected	30	Not Detected
1,2,4-Trimethylbenzene	1.0	Not Detected	5.1	Not Detected
1,2-Dibromo-3-chloropropane	4.1	Not Detected	40	Not Detected
1,2-Dibromoethane (EDB)	1.0	Not Detected	7.9	Not Detected
1,2-Dichlorobenzene	1.0	Not Detected	6.2	Not Detected
1,2-Dichloroethane	1.0	Not Detected	4.2	Not Detected
1,2-Dichloropropane	1.0	Not Detected	4.8	Not Detected
1,3,5-Trimethylbenzene	1.0	Not Detected	5.1	Not Detected
1,3-Butadiene	1.0	Not Detected	2.3	Not Detected
1,3-Dichlorobenzene	1.0	Not Detected	6.2	Not Detected
1,4-Dichlorobenzene	1.0	Not Detected	6.2	Not Detected
1,4-Dioxane	4.1	Not Detected	15	Not Detected
2,2,4-Trimethylpentane	1.0	Not Detected	4.8	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.1	Not Detected	12	Not Detected
2-Hexanone	4.1	Not Detected	17	Not Detected
2-Propanol	4.1	Not Detected	10	Not Detected
3-Chloropropene	4.1	Not Detected	13	Not Detected
4-Ethyltoluene	1.0	Not Detected	5.1	Not Detected
4-Methyl-2-pentanone	1.0	Not Detected	4.2	Not Detected
Acetone	10	Not Detected	24	Not Detected
Acrolein	4.1	Not Detected	9.4	Not Detected
Acrylonitrile	4.1	Not Detected	8.9	Not Detected
alpha-Chlorotoluene	1.0	Not Detected	5.3	Not Detected
Benzene	1.0	Not Detected	3.3	Not Detected
Bromodichloromethane	1.0	Not Detected	6.9	Not Detected
Bromoform	1.0	Not Detected	11	Not Detected
Bromomethane	10	Not Detected	40	Not Detected
Carbon Disulfide	4.1	Not Detected	13	Not Detected
Carbon Tetrachloride	1.0	Not Detected	6.5	Not Detected
Chlorobenzene	1.0	Not Detected	4.7	Not Detected
Chloroethane	4.1	Not Detected	11	Not Detected
Chloroform	1.0	Not Detected	5.0	Not Detected
Chloromethane	10	Not Detected	21	Not Detected
cis-1,2-Dichloroethene	1.0	Not Detected	4.1	Not Detected

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Client Sample ID: SSV-GSS01-02

Lab ID#: 2108390-23A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p082112**	**Date of Collection:**	**8/17/21 12:23:00 PM**
Dil. Factor:	**2.06**	**Date of Analysis:**	**8/21/21 05:16 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,3-Dichloropropene	1.0	Not Detected	4.7	Not Detected
Cumene	1.0	Not Detected	5.1	Not Detected
Cyclohexane	1.0	Not Detected	3.5	Not Detected
Dibromochloromethane	1.0	Not Detected	8.8	Not Detected
Dibromomethane	4.1	Not Detected	29	Not Detected
Ethanol	10	Not Detected	19	Not Detected
Ethyl Acetate	4.1	Not Detected	15	Not Detected
Ethyl Benzene	1.0	Not Detected	4.5	Not Detected
Ethyl-tert-butyl ether	4.1	Not Detected	17	Not Detected
Freon 11	1.0	Not Detected	5.8	Not Detected
Freon 12	1.0	Not Detected	5.1	Not Detected
Freon 113	1.0	Not Detected	7.9	Not Detected
Freon 114	1.0	Not Detected	7.2	Not Detected
Freon 134a	4.1	Not Detected	17	Not Detected
Heptane	1.0	Not Detected	4.2	Not Detected
Hexachlorobutadiene	4.1	Not Detected	44	Not Detected
Hexachloroethane	4.1	Not Detected	40	Not Detected
Hexane	1.0	14	3.6	50
Iodomethane	10	Not Detected	60	Not Detected
Isopropyl ether	4.1	Not Detected	17	Not Detected
m,p-Xylene	1.0	1.3	4.5	5.5
Methyl tert-butyl ether	4.1	Not Detected	15	Not Detected
Methylene Chloride	10	Not Detected	36	Not Detected
Naphthalene	2.1	Not Detected	11	Not Detected
o-Xylene	1.0	Not Detected	4.5	Not Detected
Propylbenzene	1.0	Not Detected	5.1	Not Detected
Propylene	4.1	Not Detected	7.1	Not Detected
Styrene	1.0	Not Detected	4.4	Not Detected
tert-Amyl methyl ether	4.1	Not Detected	17	Not Detected
tert-Butyl alcohol	4.1	Not Detected	12	Not Detected
Tetrachloroethene	1.0	Not Detected	7.0	Not Detected
Tetrahydrofuran	1.0	Not Detected	3.0	Not Detected
Toluene	1.0	Not Detected	3.9	Not Detected
TPH ref. to Gasoline (MW=100)	100	Not Detected	420	Not Detected
trans-1,2-Dichloroethene	1.0	Not Detected	4.1	Not Detected
trans-1,3-Dichloropropene	1.0	Not Detected	4.7	Not Detected
Trichloroethene	1.0	Not Detected	5.5	Not Detected
Vinyl Acetate	4.1	Not Detected	14	Not Detected
Vinyl Bromide	4.1	Not Detected	18	Not Detected
Vinyl Chloride	1.0	Not Detected	2.6	Not Detected

Container Type: 1 Liter Summa Canister

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Client Sample ID: SSV-GSS01-02

Lab ID#: 2108390-23A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p082112**	**Date of Collection:**	**8/17/21 12:23:00 PM**
Dil. Factor:	**2.06**	**Date of Analysis:**	**8/21/21 05:16 PM**

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	111	70-130
4-Bromofluorobenzene	108	70-130

US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/21AUG21.b/p082112.d
Lab Smp Id: 2108390-23A
Inj Date : 21-AUG-2021 17:16
Operator : mb Inst ID: msdp.i
Smp Info : 200ml 1L3941
Misc Info : 5.5 Hg->10 psi
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/21AUG21.b/p21q0519a.m
Meth Date : 23-Aug-2021 07:32 lk8g Quant Type: ISTD
Cal Date : 19-MAY-2021 19:45 Cal File: p051915.d
Als bottle: 3
Dil Factor: 2.06000
Integrator: HP RTE Compound Sublist: AEC25677.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE		(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 90 Bromochloromethane						CAS #: 74-97-5		
5.785	5.785 (1.000)	130	102800	25.0000			80.00- 120.00	100.00
5.785	5.785 (1.000)	128	80129				48.23- 108.23	77.95
5.785	5.785 (1.000)	49	236741				150.57- 210.57	230.29
* 108 1,4-Difluorobenzene						CAS #: 540-36-3		
6.666	6.666 (1.000)	114	369160	25.0000			80.00- 120.00	100.00
6.666	6.666 (1.000)	88	55030				0.00- 45.71	14.91
* 153 Chlorobenzene-d5						CAS #: 3114-55-4		
9.460	9.460 (1.000)	117	382227	25.0000			80.00- 120.00	100.00
9.460	9.460 (1.000)	82	195297				23.78- 83.78	51.09
$ 104 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
6.315	6.315 (1.092)	65	157863	27.8258	27.826		80.00- 120.00	100.00
6.315	6.315 (1.092)	67	74709				27.21- 87.21	47.33
$ 134 Toluene-d8						CAS #: 2037-26-5		
7.891	7.891 (1.184)	98	411454	25.6671	25.667		80.00- 120.00	100.00
7.891	7.891 (1.184)	70	44984				0.00- 40.44	10.93

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 134 Toluene-d8 (continued)							
7.891	7.891 (1.184)	100	263786			34.95- 94.95	64.11
$ 170 4-Bromofluorobenzene					CAS #: 460-00-4		
10.921	10.921 (1.154)	174	265775	27.0780	27.078	80.00- 120.00	100.00
10.914	10.921 (1.154)	95	311725			95.92- 155.92	117.29
10.921	10.921 (1.154)	176	258651			66.89- 126.89	97.32
67 Hexane					CAS #: 110-54-3		
4.696	4.697 (0.812)	57	69689	6.88151	14.176	80.00- 120.00	100.00
4.696	4.697 (0.812)	43	56956			37.52- 97.52	81.73
4.696	4.697 (0.812)	86	6500			0.00- 41.48	9.33
158 m,p-Xylene					CAS #: 108-38-3		
9.710	9.718 (1.026)	106	6088	0.61248	1.262	80.00- 120.00	100.00
9.718	9.718 (1.027)	91	12581			163.73- 223.73	206.63

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p082112.d
Lab Smp Id: 2108390-23A
Analysis Type: VOA
Quant Type: ISTD
Operator: mb
Method File: /chem/msdp.i/21AUG21.b/p21q0519a.m
Misc Info: 5.5 Hg->10 psi

Calibration Date: 21-AUG-2021
Calibration Time: 09:37
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	102894	61736	144052	102800	-0.09
108 1,4-Difluorobenze	387356	232414	542298	369160	-4.70
153 Chlorobenzene-d5	386134	231680	540588	382227	-1.01

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.79	5.46	6.12	5.79	-0.00
108 1,4-Difluorobenze	6.67	6.34	7.00	6.67	-0.00
153 Chlorobenzene-d5	9.46	9.13	9.79	9.46	-0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 24-Aug-2021 12:23

US32TAR1

RECOVERY REPORT

Client Name: Client SDG: 21AUG21
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 2108390-23A
Level: LOW Operator: mb
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT20_new.spk Quant Type: ISTD
Sublist File: AEC25677.sub
Method File: /chem/msdp.i/21AUG21.b/p21q0519a.m
Misc Info: 5.5 Hg->10 psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 104 1,2-Dichloroethan	25.000	27.826	111.30	70-130
$ 134 Toluene-d8	25.000	25.667	102.67	70-130
$ 170 4-Bromofluorobenz	25.000	27.078	108.31	70-130

Data File: /chem/msdp.i/21AUG21.b/p082112.d

Date : 21-AUG-2021 17:16

Client ID:

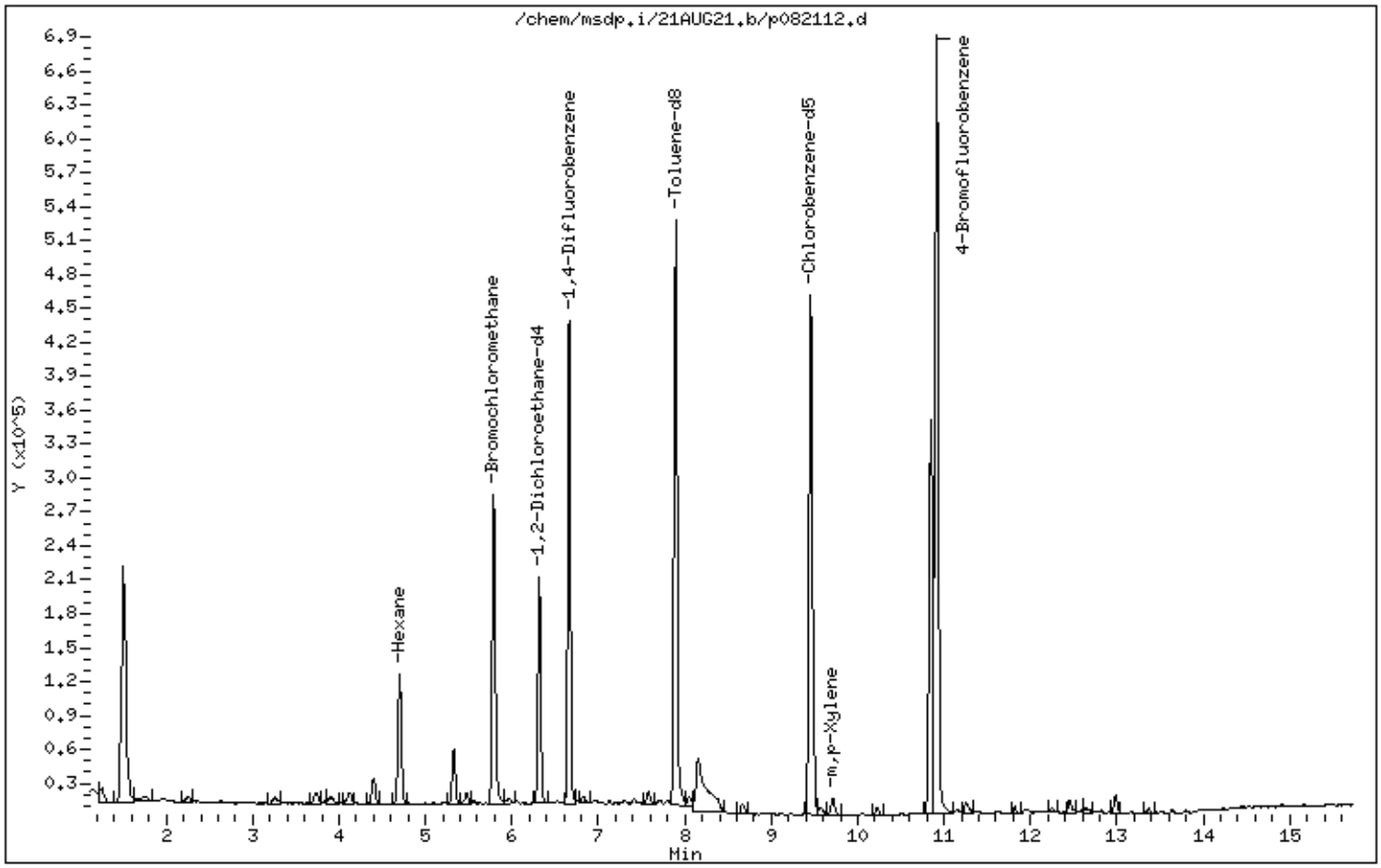
Instrument: msdp.i

Sample Info: 200ml 1L3941

Operator: mb

Column phase: RTX-624

Column diameter: 0.25



Data File: /chem/msdp.i/21AUG21.b/p082112.d

Date : 21-AUG-2021 17:16

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1L3941

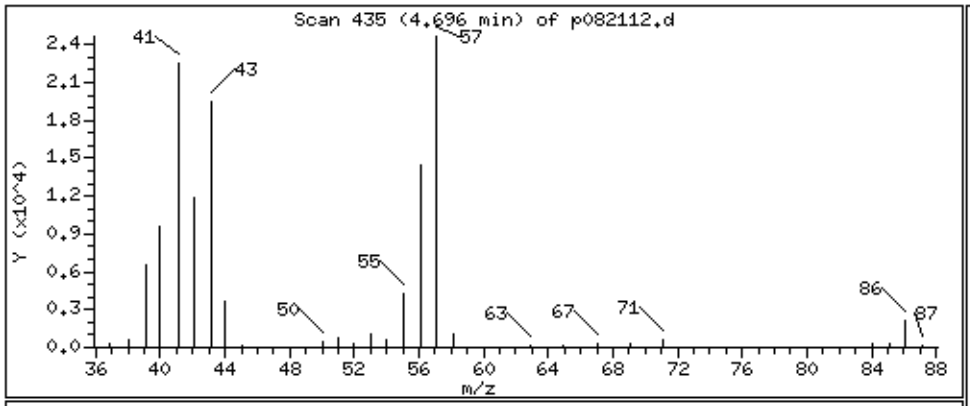
Operator: mb

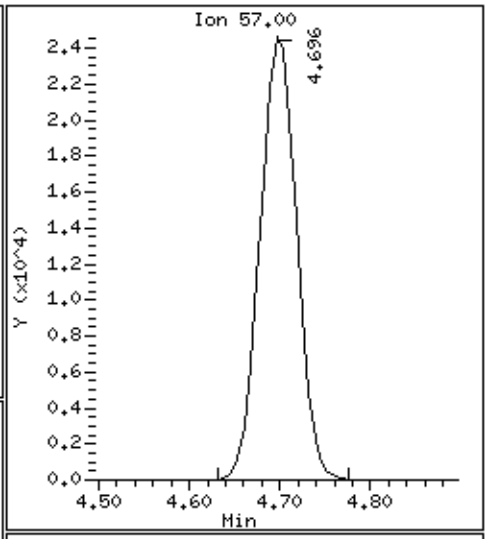
Column phase: RTX-624

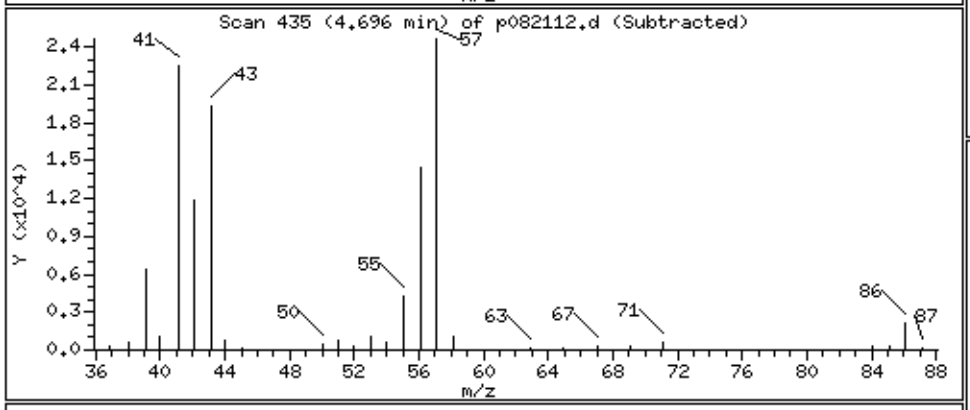
Column diameter: 0.25

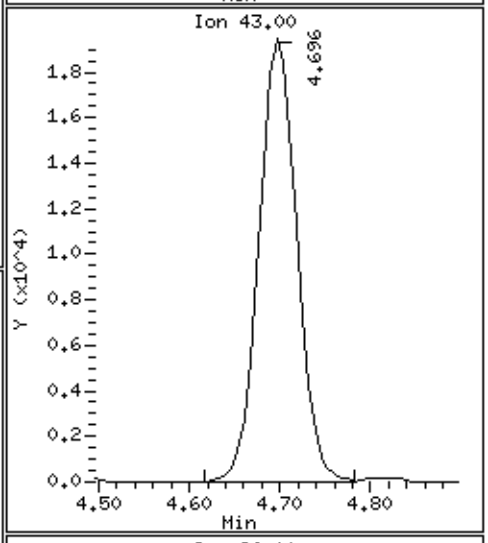
67 Hexane

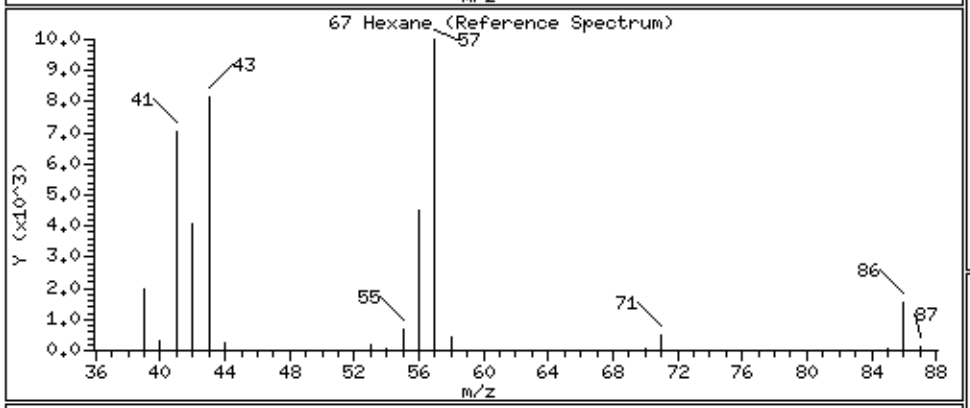
Concentration: 14.176 PPBV

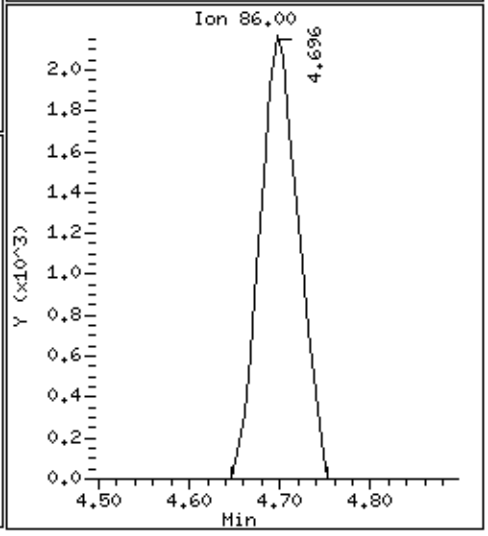


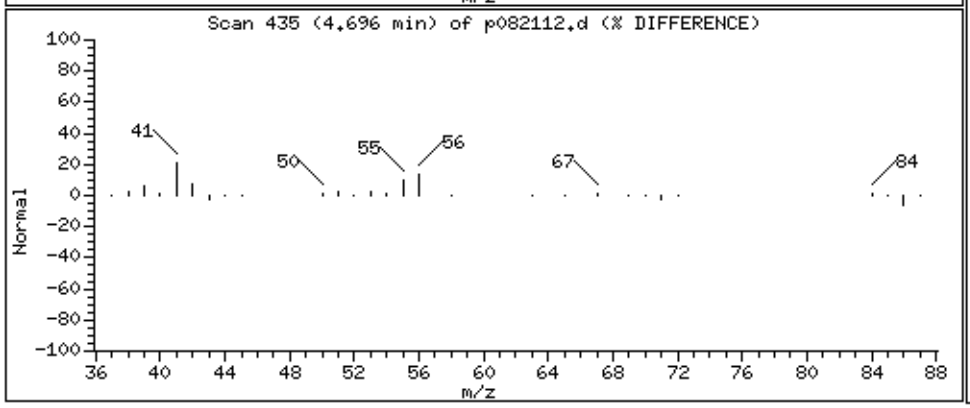












Data File: /chem/msdp.i/21AUG21.b/p082112.d

Date : 21-AUG-2021 17:16

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1L3941

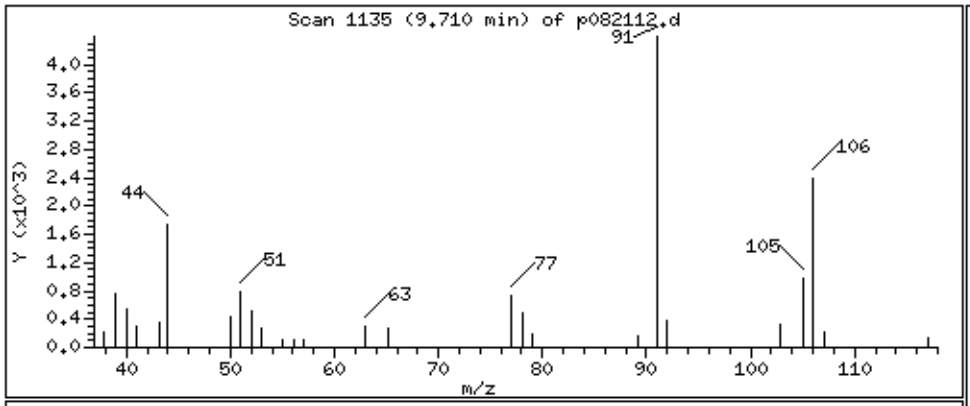
Operator: mb

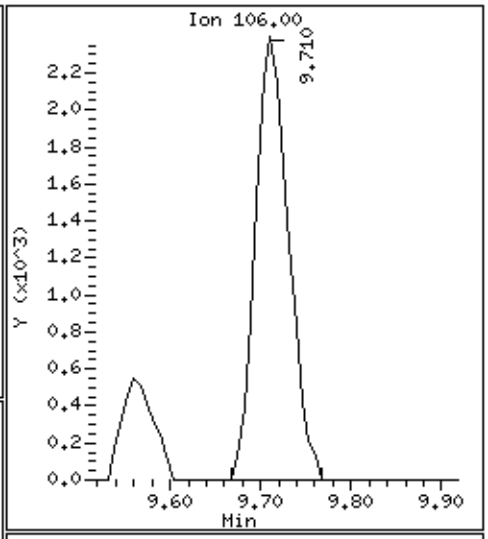
Column phase: RTX-624

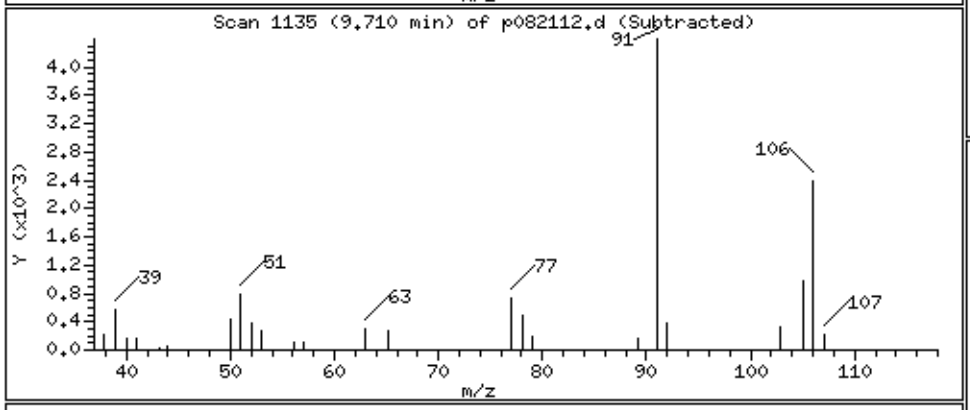
Column diameter: 0.25

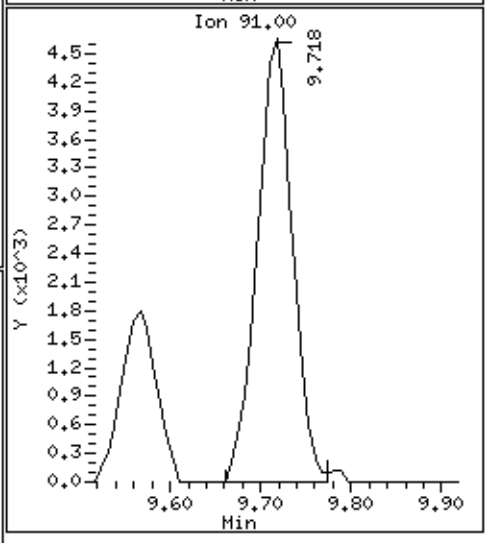
158 m,p-Xylene

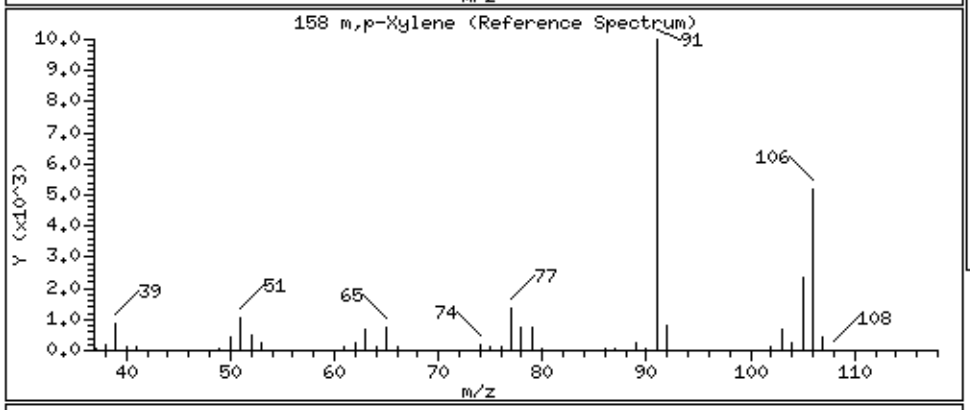
Concentration: 1.262 PPBV

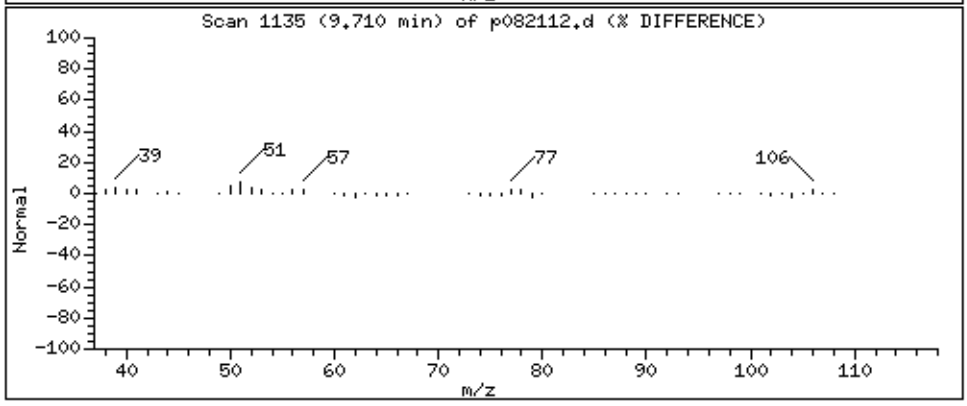












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Client Sample ID: SSV-GSS02-02

Lab ID#: 2108390-24A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p082113**	**Date of Collection:**	**8/17/21 12:50:00 PM**
Dil. Factor:	**2.14**	**Date of Analysis:**	**8/21/21 05:45 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1,2-Tetrachloroethane	4.3	Not Detected	29	Not Detected
1,1,1-Trichloroethane	1.1	Not Detected	5.8	Not Detected
1,1,2,2-Tetrachloroethane	1.1	Not Detected	7.3	Not Detected
1,1,2-Trichloroethane	1.1	Not Detected	5.8	Not Detected
1,1-Dichloroethane	1.1	Not Detected	4.3	Not Detected
1,1-Dichloroethene	1.1	Not Detected	4.2	Not Detected
1,1-Difluoroethane	4.3	Not Detected	12	Not Detected
1,2,3-Trichloropropane	4.3	Not Detected	26	Not Detected
1,2,4-Trichlorobenzene	4.3	Not Detected	32	Not Detected
1,2,4-Trimethylbenzene	1.1	Not Detected	5.2	Not Detected
1,2-Dibromo-3-chloropropane	4.3	Not Detected	41	Not Detected
1,2-Dibromoethane (EDB)	1.1	Not Detected	8.2	Not Detected
1,2-Dichlorobenzene	1.1	Not Detected	6.4	Not Detected
1,2-Dichloroethane	1.1	Not Detected	4.3	Not Detected
1,2-Dichloropropane	1.1	Not Detected	4.9	Not Detected
1,3,5-Trimethylbenzene	1.1	Not Detected	5.3	Not Detected
1,3-Butadiene	1.1	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	1.1	Not Detected	6.4	Not Detected
1,4-Dichlorobenzene	1.1	Not Detected	6.4	Not Detected
1,4-Dioxane	4.3	Not Detected	15	Not Detected
2,2,4-Trimethylpentane	1.1	Not Detected	5.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.3	Not Detected	13	Not Detected
2-Hexanone	4.3	Not Detected	18	Not Detected
2-Propanol	4.3	12	10	31
3-Chloropropene	4.3	Not Detected	13	Not Detected
4-Ethyltoluene	1.1	Not Detected	5.3	Not Detected
4-Methyl-2-pentanone	1.1	Not Detected	4.4	Not Detected
Acetone	11	Not Detected	25	Not Detected
Acrolein	4.3	Not Detected	9.8	Not Detected
Acrylonitrile	4.3	Not Detected	9.3	Not Detected
alpha-Chlorotoluene	1.1	Not Detected	5.5	Not Detected
Benzene	1.1	Not Detected	3.4	Not Detected
Bromodichloromethane	1.1	Not Detected	7.2	Not Detected
Bromoform	1.1	Not Detected	11	Not Detected
Bromomethane	11	Not Detected	42	Not Detected
Carbon Disulfide	4.3	Not Detected	13	Not Detected
Carbon Tetrachloride	1.1	Not Detected	6.7	Not Detected
Chlorobenzene	1.1	Not Detected	4.9	Not Detected
Chloroethane	4.3	Not Detected	11	Not Detected
Chloroform	1.1	Not Detected	5.2	Not Detected
Chloromethane	11	Not Detected	22	Not Detected
cis-1,2-Dichloroethene	1.1	Not Detected	4.2	Not Detected

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Client Sample ID: SSV-GSS02-02

Lab ID#: 2108390-24A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p082113**	**Date of Collection:**	**8/17/21 12:50:00 PM**
Dil. Factor:	**2.14**	**Date of Analysis:**	**8/21/21 05:45 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,3-Dichloropropene	1.1	Not Detected	4.8	Not Detected
Cumene	1.1	Not Detected	5.2	Not Detected
Cyclohexane	1.1	Not Detected	3.7	Not Detected
Dibromochloromethane	1.1	Not Detected	9.1	Not Detected
Dibromomethane	4.3	Not Detected	30	Not Detected
Ethanol	11	16	20	30
Ethyl Acetate	4.3	Not Detected	15	Not Detected
Ethyl Benzene	1.1	Not Detected	4.6	Not Detected
Ethyl-tert-butyl ether	4.3	Not Detected	18	Not Detected
Freon 11	1.1	Not Detected	6.0	Not Detected
Freon 12	1.1	Not Detected	5.3	Not Detected
Freon 113	1.1	Not Detected	8.2	Not Detected
Freon 114	1.1	Not Detected	7.5	Not Detected
Freon 134a	4.3	Not Detected	18	Not Detected
Heptane	1.1	Not Detected	4.4	Not Detected
Hexachlorobutadiene	4.3	Not Detected	46	Not Detected
Hexachloroethane	4.3	Not Detected	41	Not Detected
Hexane	1.1	21	3.8	75
Iodomethane	11	Not Detected	62	Not Detected
Isopropyl ether	4.3	Not Detected	18	Not Detected
m,p-Xylene	1.1	1.7	4.6	7.5
Methyl tert-butyl ether	4.3	Not Detected	15	Not Detected
Methylene Chloride	11	Not Detected	37	Not Detected
Naphthalene	2.1	Not Detected	11	Not Detected
o-Xylene	1.1	Not Detected	4.6	Not Detected
Propylbenzene	1.1	Not Detected	5.3	Not Detected
Propylene	4.3	Not Detected	7.4	Not Detected
Styrene	1.1	Not Detected	4.6	Not Detected
tert-Amyl methyl ether	4.3	Not Detected	18	Not Detected
tert-Butyl alcohol	4.3	Not Detected	13	Not Detected
Tetrachloroethene	1.1	44	7.2	300
Tetrahydrofuran	1.1	1.6	3.2	4.6
Toluene	1.1	1.1	4.0	4.3
TPH ref. to Gasoline (MW=100)	110	120	440	490
trans-1,2-Dichloroethene	1.1	Not Detected	4.2	Not Detected
trans-1,3-Dichloropropene	1.1	Not Detected	4.8	Not Detected
Trichloroethene	1.1	Not Detected	5.8	Not Detected
Vinyl Acetate	4.3	Not Detected	15	Not Detected
Vinyl Bromide	4.3	Not Detected	19	Not Detected
Vinyl Chloride	1.1	Not Detected	2.7	Not Detected

Container Type: 1 Liter Summa Canister

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Client Sample ID: SSV-GSS02-02

Lab ID#: 2108390-24A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p082113**	**Date of Collection:**	**8/17/21 12:50:00 PM**
Dil. Factor:	**2.14**	**Date of Analysis:**	**8/21/21 05:45 PM**

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	111	70-130
4-Bromofluorobenzene	111	70-130

US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/21AUG21.b/p082113.d
Lab Smp Id: 2108390-24A
Inj Date : 21-AUG-2021 17:45
Operator : mb Inst ID: msdp.i
Smp Info : 200ml 1L1751
Misc Info : 6.5 Hg->10 psi
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/21AUG21.b/p21q0519a.m
Meth Date : 23-Aug-2021 07:32 lk8g Quant Type: ISTD
Cal Date : 19-MAY-2021 19:45 Cal File: p051915.d
Als bottle: 4
Dil Factor: 2.14000
Integrator: HP RTE Compound Sublist: AEC25677.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE		(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 90 Bromochloromethane						CAS #: 74-97-5		
5.785	5.785 (1.000)	130	102715	25.0000			80.00- 120.00	100.00
5.785	5.785 (1.000)	128	80295				48.23- 108.23	78.17
5.785	5.785 (1.000)	49	235772				150.57- 210.57	229.54
* 108 1,4-Difluorobenzene						CAS #: 540-36-3		
6.666	6.666 (1.000)	114	369444	25.0000			80.00- 120.00	100.00
6.666	6.666 (1.000)	88	52389				0.00- 45.71	14.18
* 153 Chlorobenzene-d5						CAS #: 3114-55-4		
9.460	9.460 (1.000)	117	386768	25.0000			80.00- 120.00	100.00
9.460	9.460 (1.000)	82	193181				23.78- 83.78	49.95
$ 104 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
6.315	6.315 (1.092)	65	157878	27.8515	27.851		80.00- 120.00	100.00
6.315	6.315 (1.092)	67	75332				27.21- 87.21	47.72
$ 134 Toluene-d8						CAS #: 2037-26-5		
7.891	7.891 (1.184)	98	406267	25.3241	25.324		80.00- 120.00	100.00
7.891	7.891 (1.184)	70	42903				0.00- 40.44	10.56

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 134 Toluene-d8 (continued)							
7.891	7.891 (1.184)	100	262498			34.95- 94.95	64.61
$ 170 4-Bromofluorobenzene					CAS #: 460-00-4		
10.921	10.921 (1.154)	174	275950	27.7846	27.784	80.00- 120.00	100.00
10.914	10.921 (1.154)	95	324061			95.92- 155.92	117.43
10.921	10.921 (1.154)	176	266053			66.89- 126.89	96.41
39 Ethanol					CAS #: 64-17-5		
3.264	3.250 (0.564)	46	7530	7.39236	15.820	80.00- 120.00	100.00
3.257	3.250 (0.563)	45	20269			511.19- 571.19	269.17
52 2-Propanol					CAS #: 67-63-0		
3.901	3.894 (0.674)	45	63222	5.82543	12.466	80.00- 120.00	100.00
3.901	3.894 (0.674)	43	14926			0.00- 47.19	23.61
67 Hexane					CAS #: 110-54-3		
4.696	4.697 (0.812)	57	100935	9.97518	21.347	80.00- 120.00	100.00
4.696	4.697 (0.812)	43	84073			37.52- 97.52	83.29
4.696	4.697 (0.812)	86	10721			0.00- 41.48	10.62
89 Tetrahydrofuran					CAS #: 109-99-9		
5.785	5.778 (1.000)	42	5693	0.73732	1.578	80.00- 120.00	100.00
5.785	5.778 (1.000)	71	756			0.00- 55.82	13.29
5.785	5.778 (1.000)	72	972			0.00- 57.59	17.08
137 Toluene					CAS #: 108-88-3		
7.955	7.956 (1.193)	91	8964	0.53293	1.140	80.00- 120.00	100.00
7.955	7.956 (1.193)	92	5490			28.38- 88.38	61.24
142 Tetrachloroethene					CAS #: 127-18-4		
8.464	8.464 (0.895)	166	180742	20.5045	43.880	80.00- 120.00	100.00
8.464	8.464 (0.895)	129	136491			47.84- 107.84	75.52
8.464	8.464 (0.895)	131	132466			45.29- 105.29	73.29
158 m,p-Xylene					CAS #: 108-38-3		
9.710	9.718 (1.026)	106	8084	0.80374	1.720	80.00- 120.00	100.00
9.710	9.718 (1.026)	91	15482			163.73- 223.73	191.50

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p082113.d
Lab Smp Id: 2108390-24A
Analysis Type: VOA
Quant Type: ISTD
Operator: mb
Method File: /chem/msdp.i/21AUG21.b/p21q0519a.m
Misc Info: 6.5 Hg->10 psi

Calibration Date: 21-AUG-2021
Calibration Time: 09:37
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	102894	61736	144052	102715	-0.17
108 1,4-Difluorobenze	387356	232414	542298	369444	-4.62
153 Chlorobenzene-d5	386134	231680	540588	386768	0.16

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.79	5.46	6.12	5.79	-0.00
108 1,4-Difluorobenze	6.67	6.34	7.00	6.67	-0.00
153 Chlorobenzene-d5	9.46	9.13	9.79	9.46	-0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 24-Aug-2021 12:26

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RECOVERY REPORT

Client Name: Client SDG: 21AUG21
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 2108390-24A
Level: LOW Operator: mb
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT20_new.spk Quant Type: ISTD
Sublist File: AEC25677.sub
Method File: /chem/msdp.i/21AUG21.b/p21q0519a.m
Misc Info: 6.5 Hg->10 psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 104 1,2-Dichloroethan	25.000	27.851	111.41	70-130
$ 134 Toluene-d8	25.000	25.324	101.30	70-130
$ 170 4-Bromofluorobenz	25.000	27.784	111.14	70-130

Data File: /chem/msdp.i/21AUG21.b/p082113.d

Date : 21-AUG-2021 17:45

Client ID:

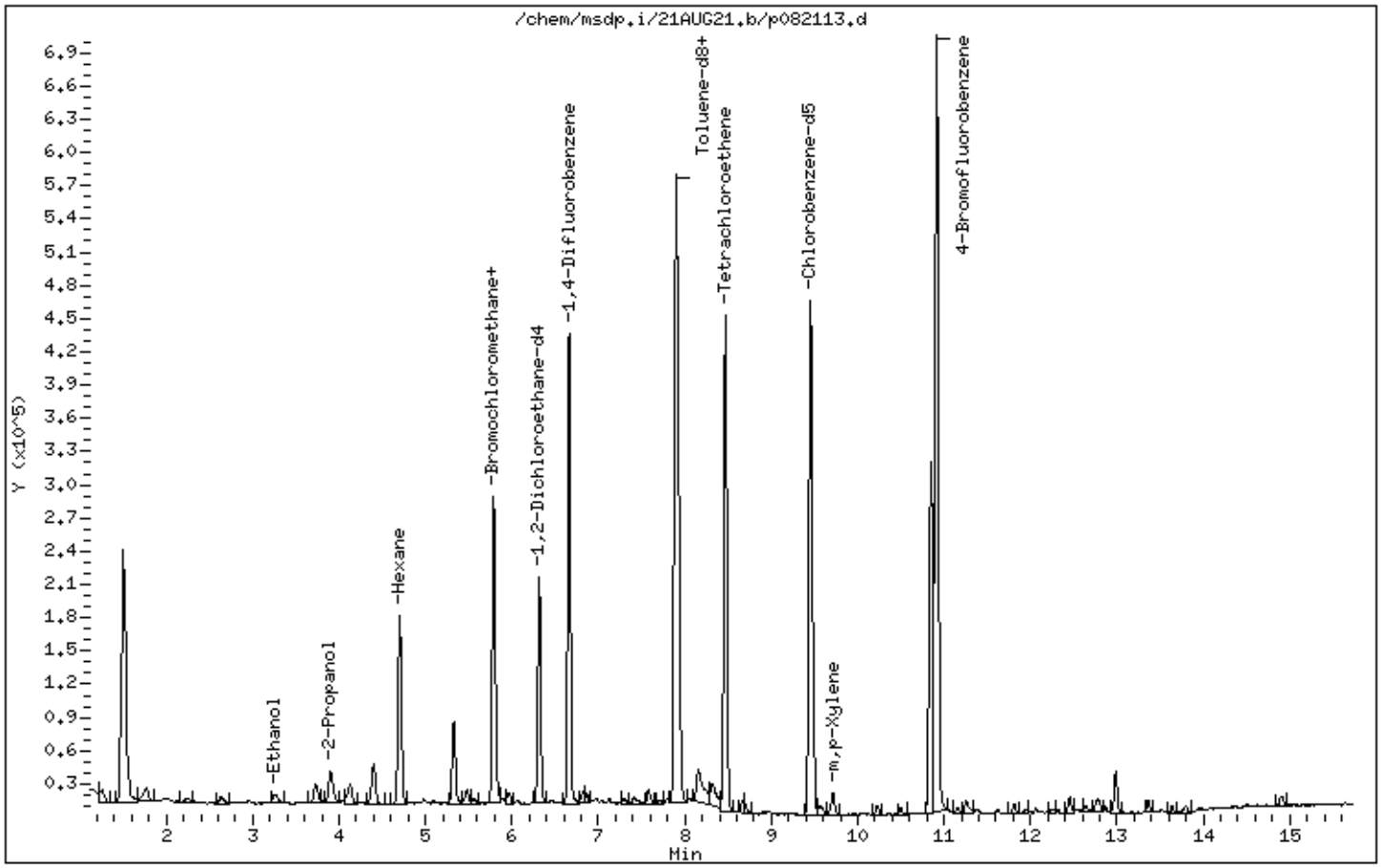
Instrument: msdp.i

Sample Info: 200ml 1L1751

Operator: mb

Column phase: RTX-624

Column diameter: 0.25



Data File: /chem/msdp.i/21AUG21.b/p082113.d

Date : 21-AUG-2021 17:45

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1L1751

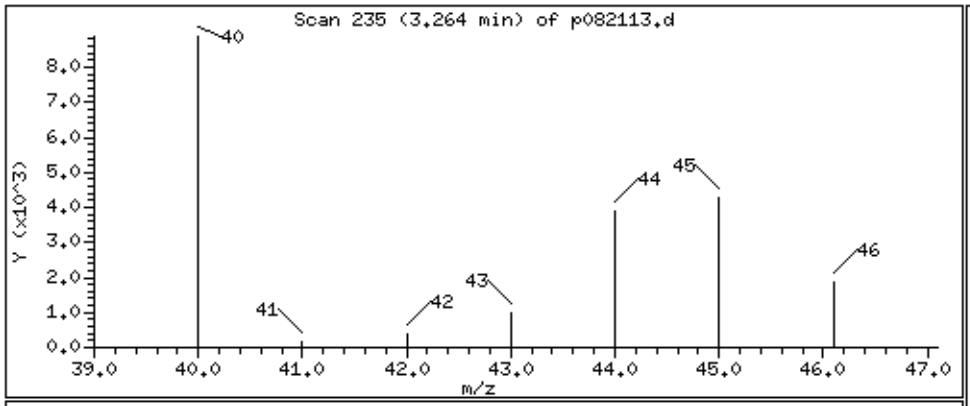
Operator: mb

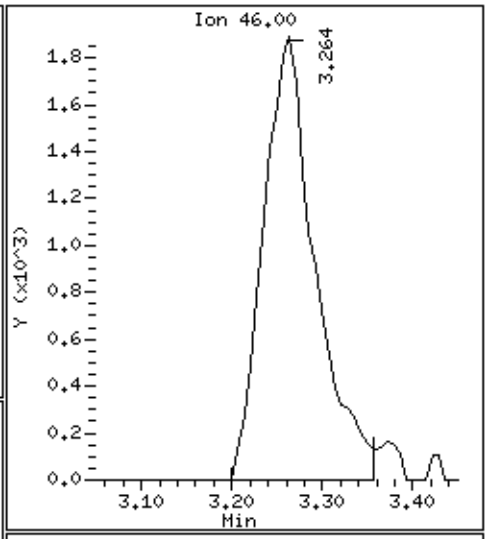
Column phase: RTX-624

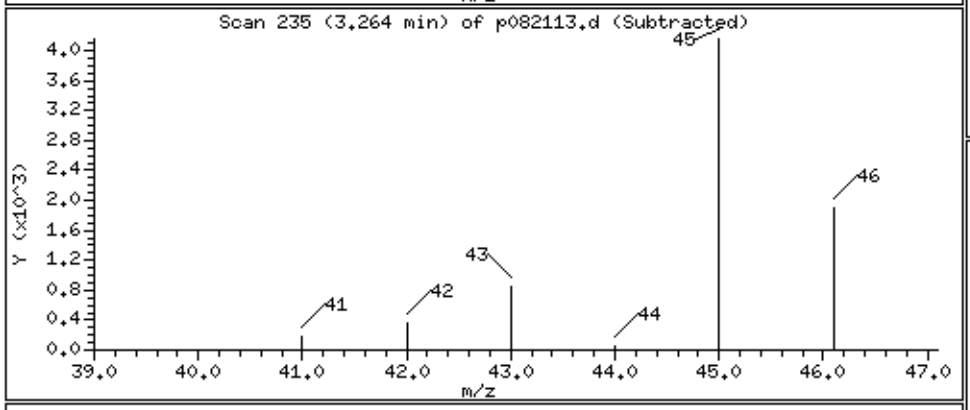
Column diameter: 0.25

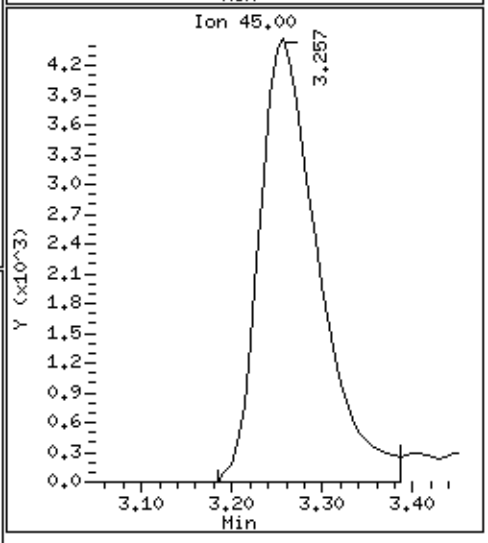
39 Ethanol

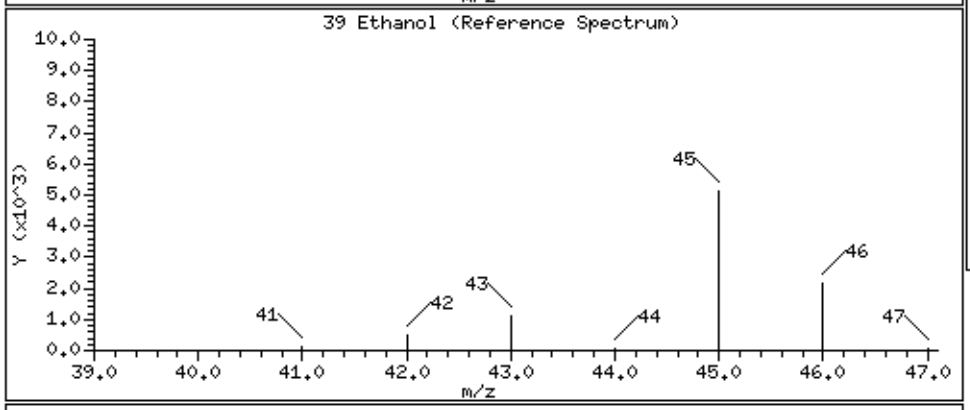
Concentration: 15.820 PPBV

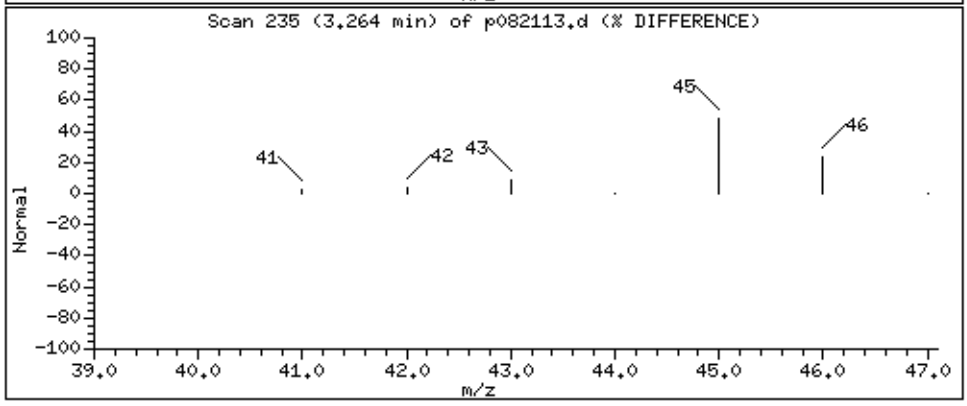












Data File: /chem/msdp.i/21AUG21.b/p082113.d

Date : 21-AUG-2021 17:45

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1L1751

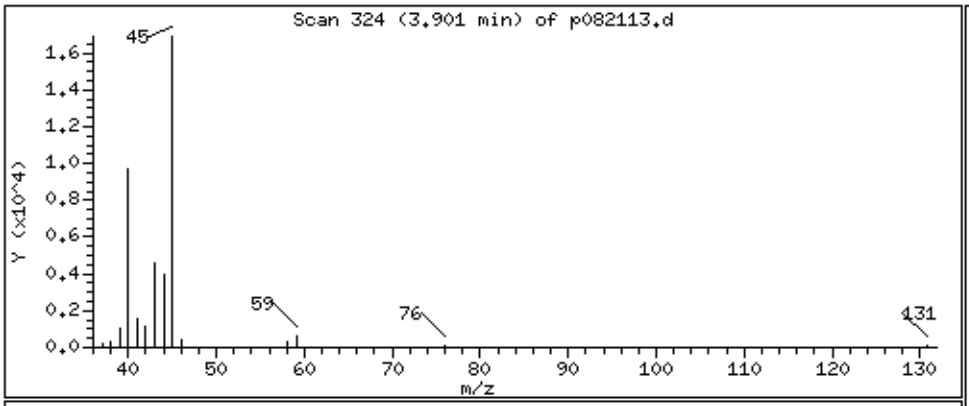
Operator: mb

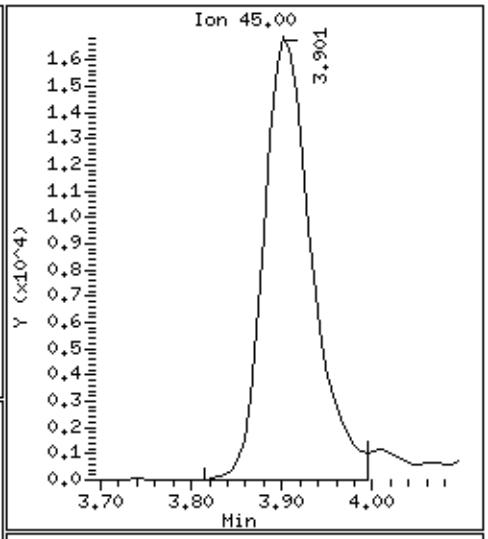
Column phase: RTX-624

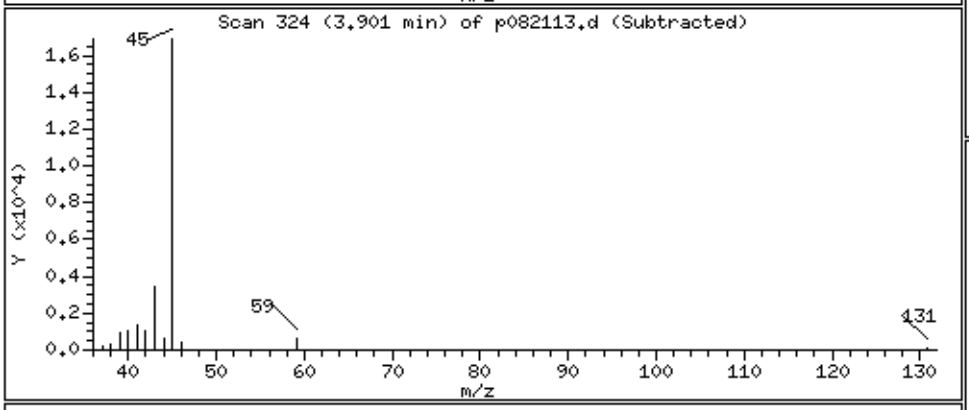
Column diameter: 0.25

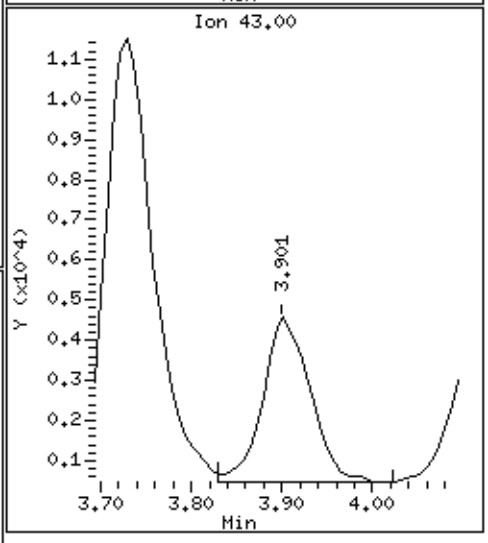
52 2-Propanol

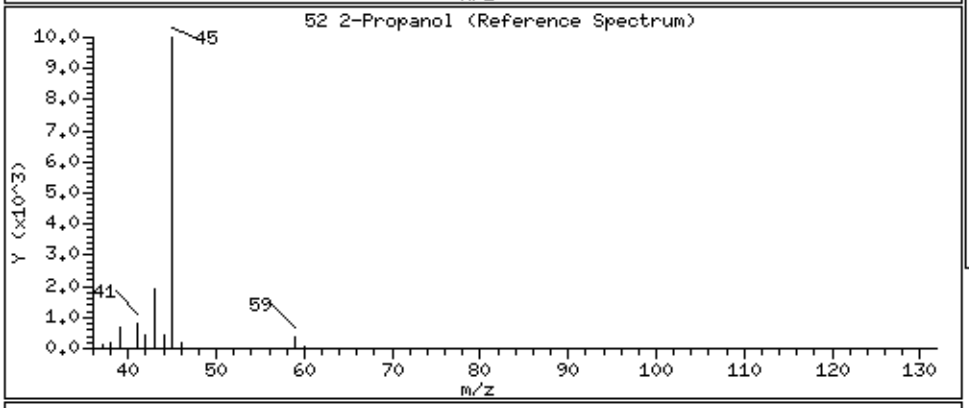
Concentration: 12.466 PPBV

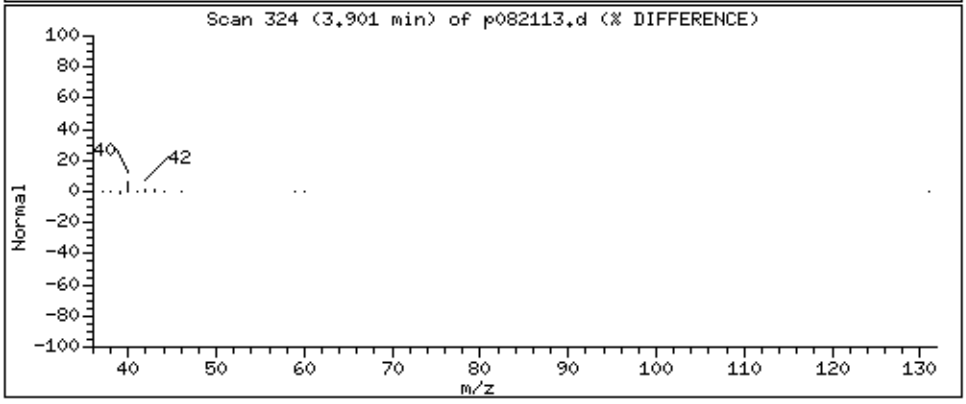












Data File: /chem/msdp.i/21AUG21.b/p082113.d

Date : 21-AUG-2021 17:45

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1L1751

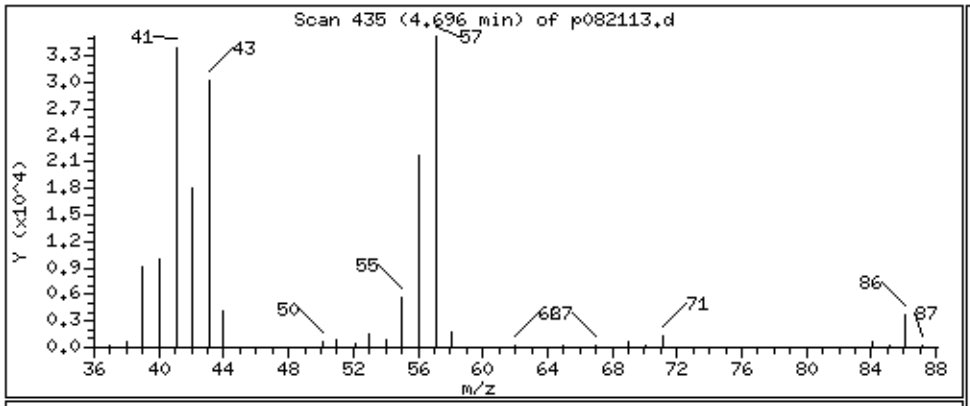
Operator: mb

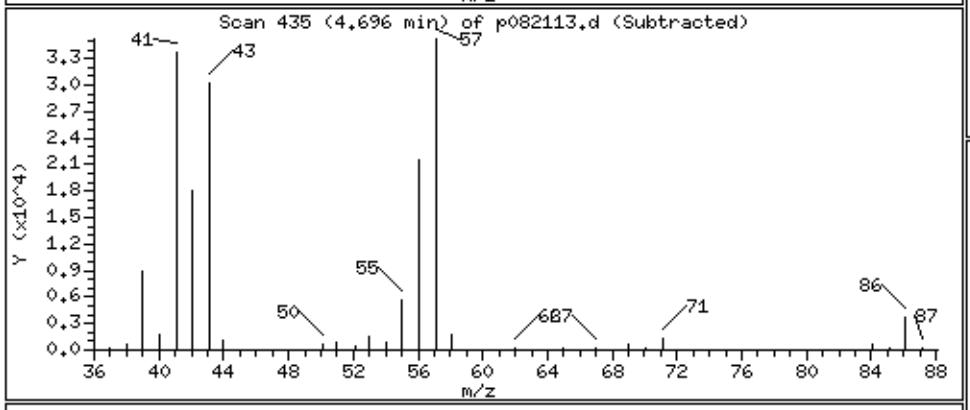
Column phase: RTX-624

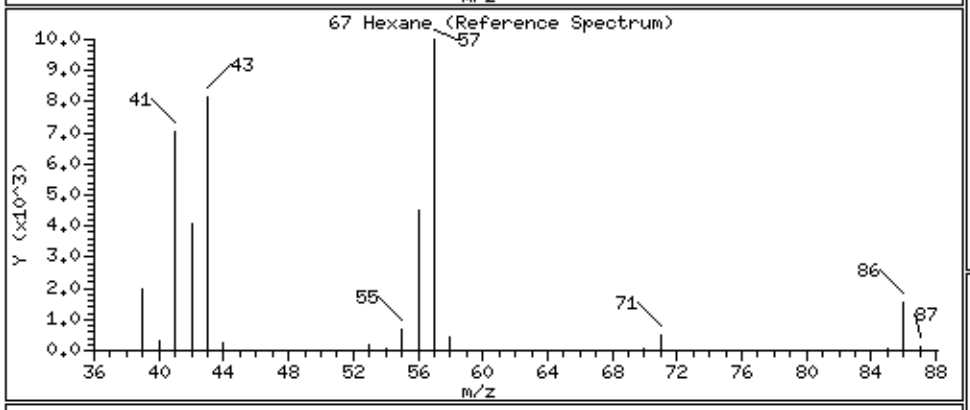
Column diameter: 0.25

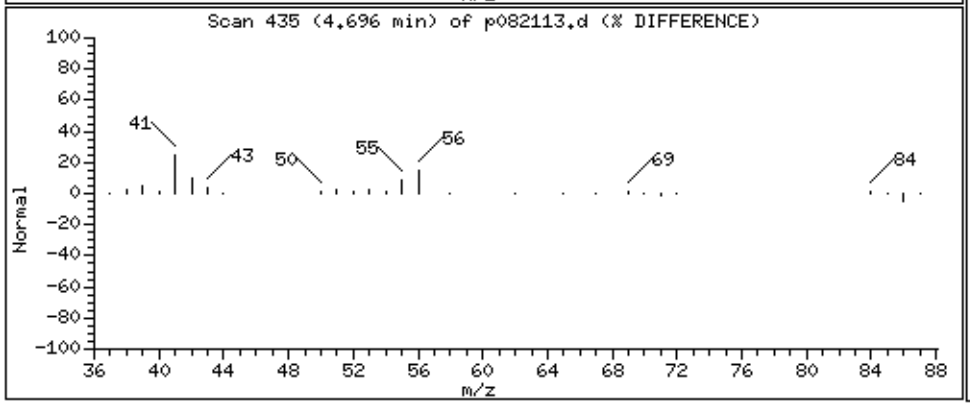
67 Hexane

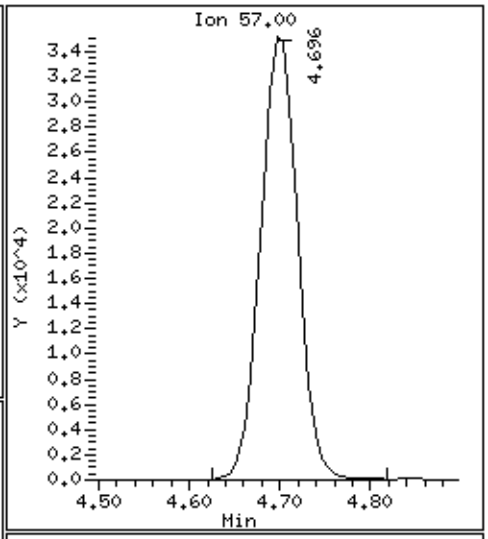
Concentration: 21.347 PPBV

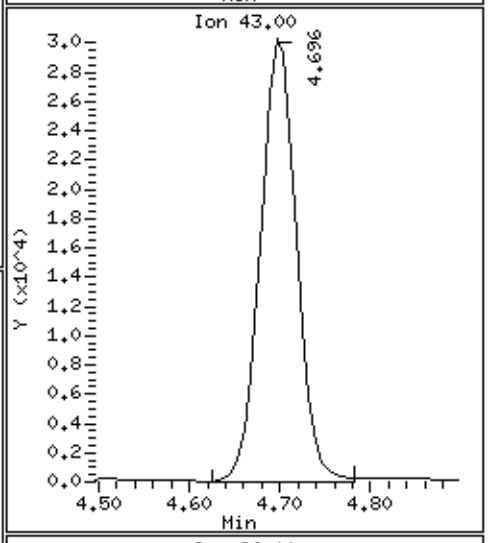


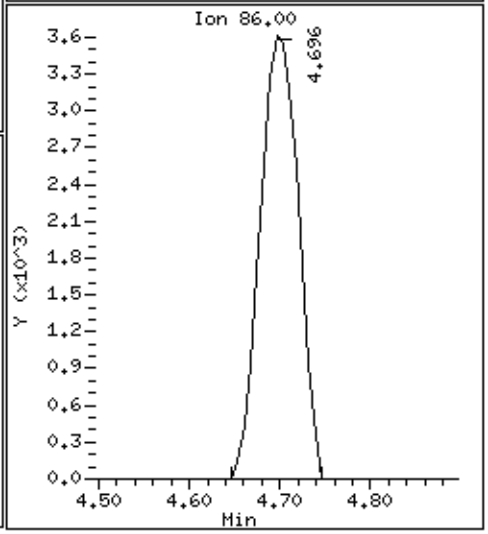












Data File: /chem/msdp.i/21AUG21.b/p082113.d

Date : 21-AUG-2021 17:45

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1L1751

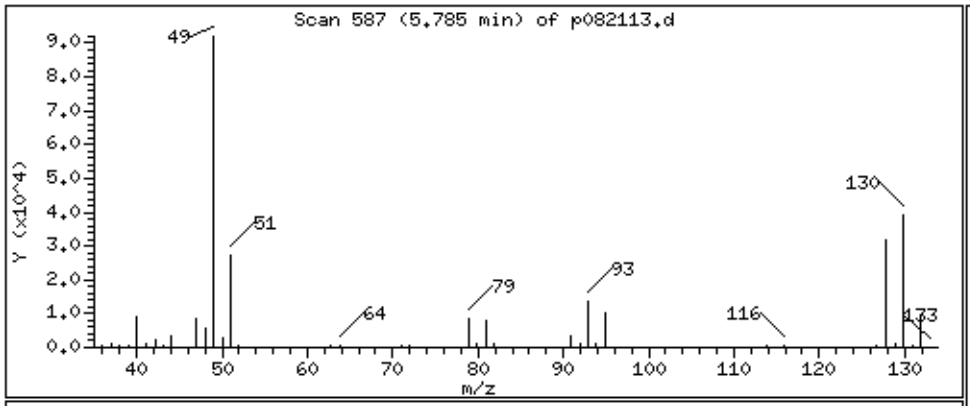
Operator: mb

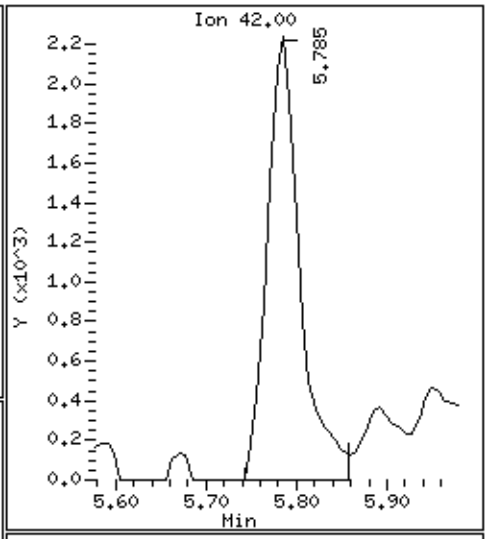
Column phase: RTX-624

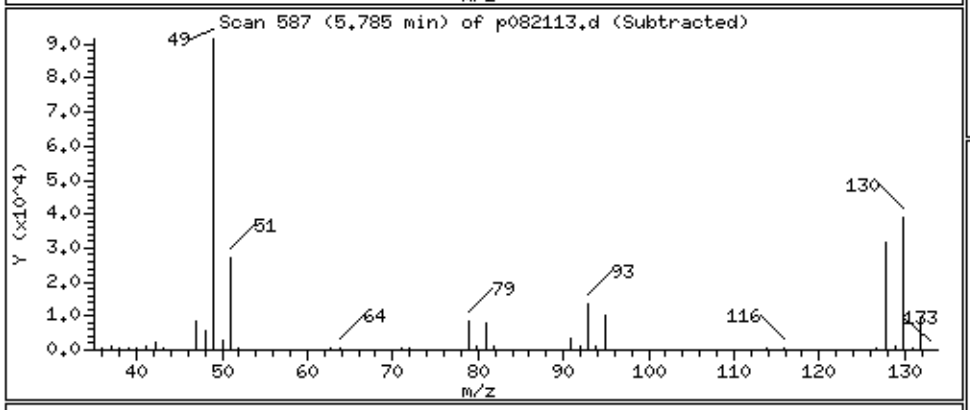
Column diameter: 0.25

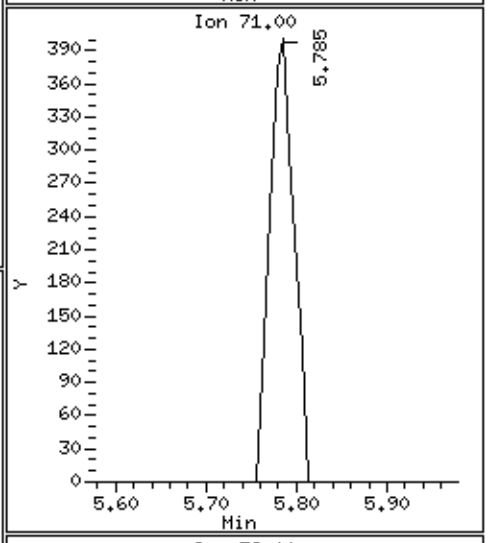
89 Tetrahydrofuran

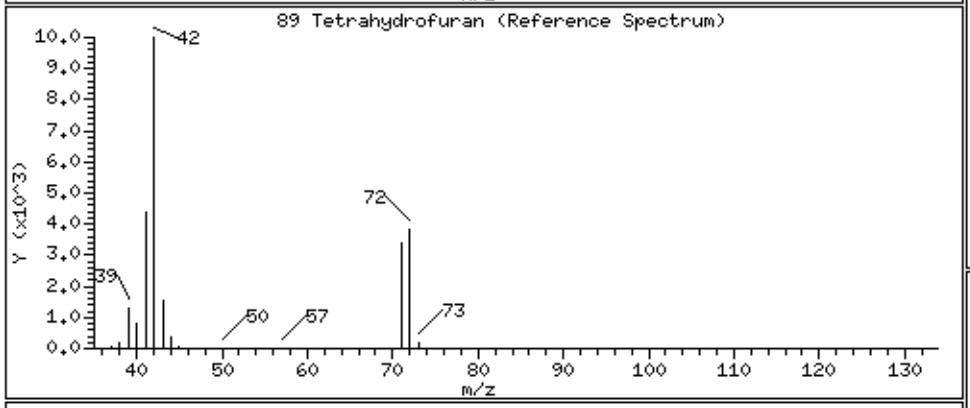
Concentration: 1.578 PPBV

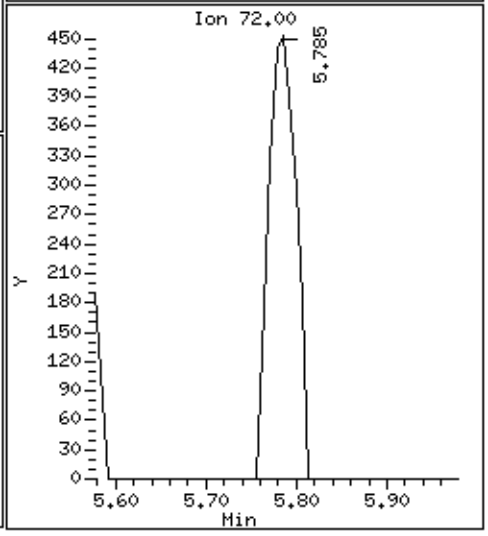


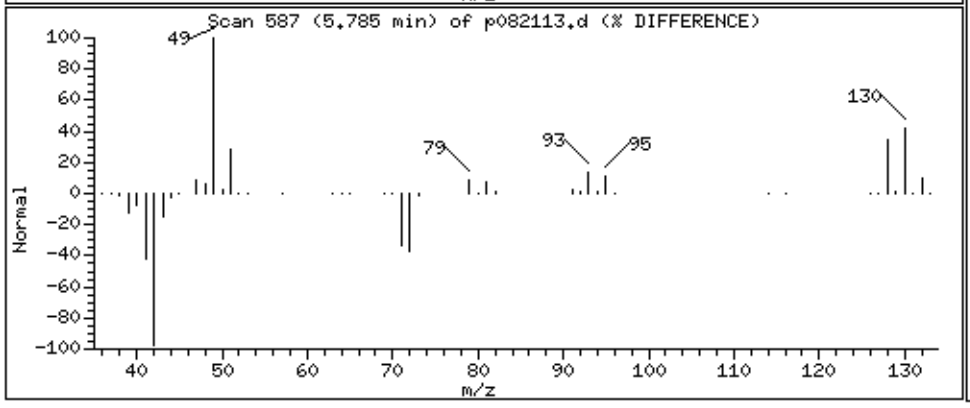












Data File: /chem/msdp.i/21AUG21.b/p082113.d

Date : 21-AUG-2021 17:45

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1L1751

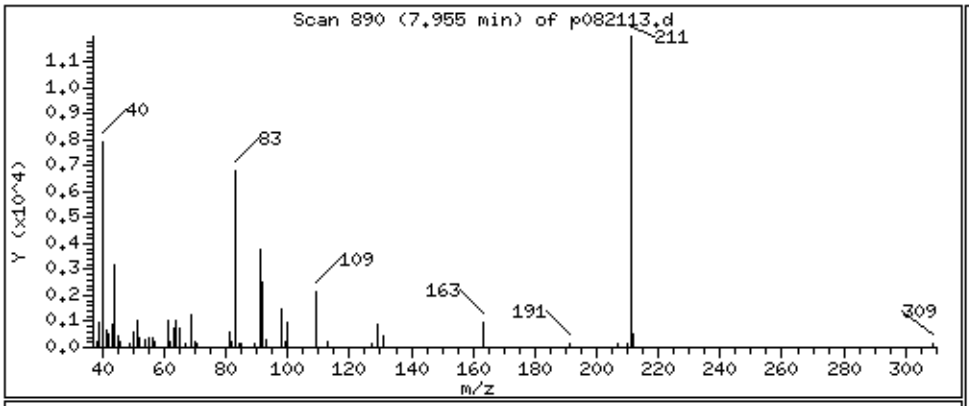
Operator: mb

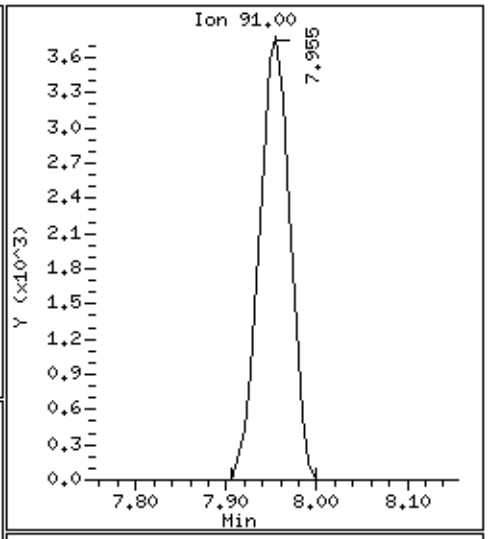
Column phase: RTX-624

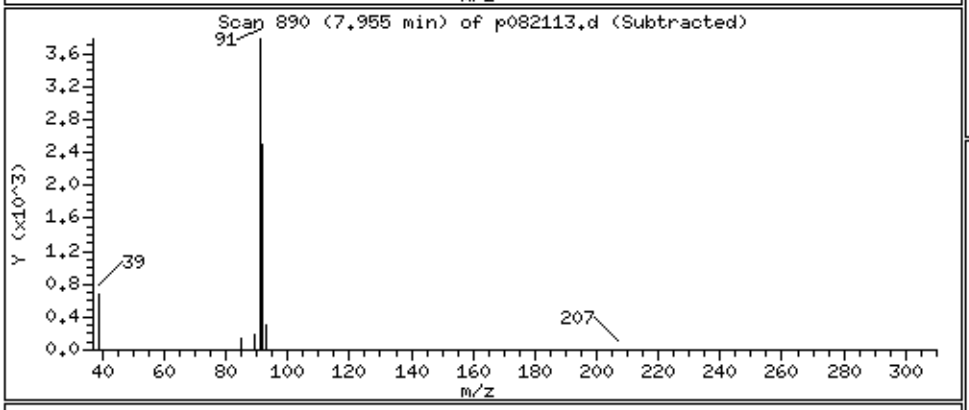
Column diameter: 0.25

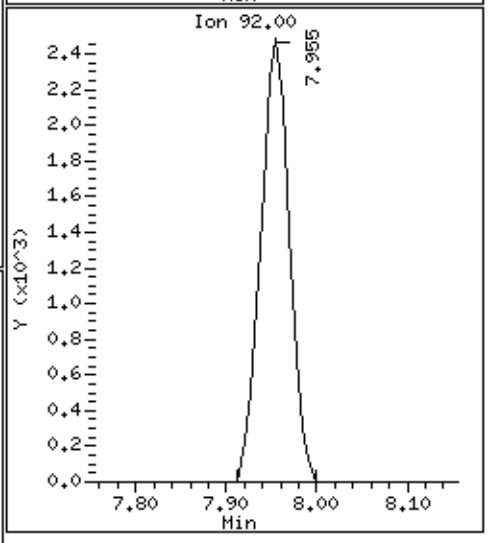
137 Toluene

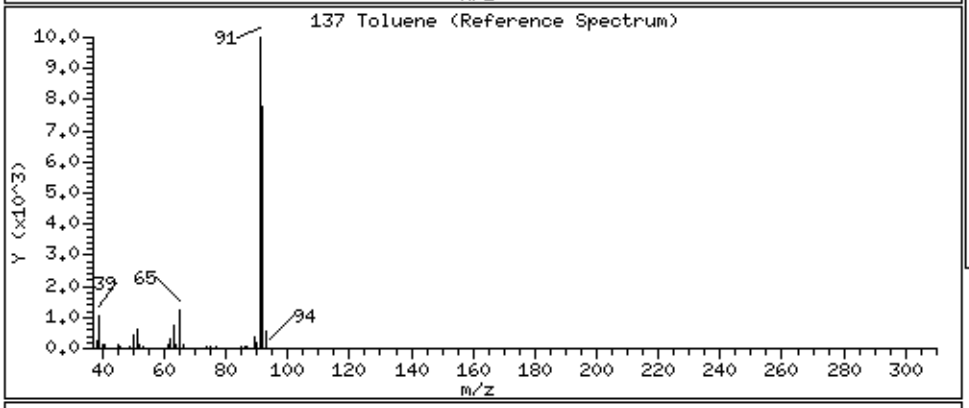
Concentration: 1.140 PPBV

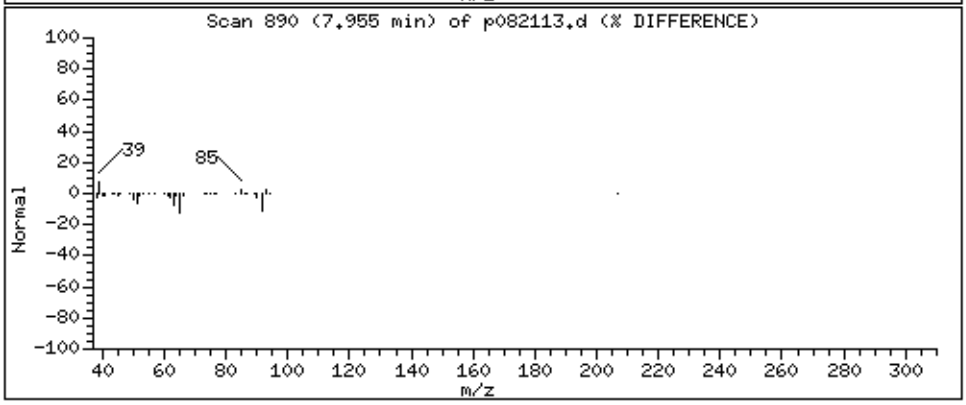












Data File: /chem/msdp.i/21AUG21.b/p082113.d

Date : 21-AUG-2021 17:45

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1L1751

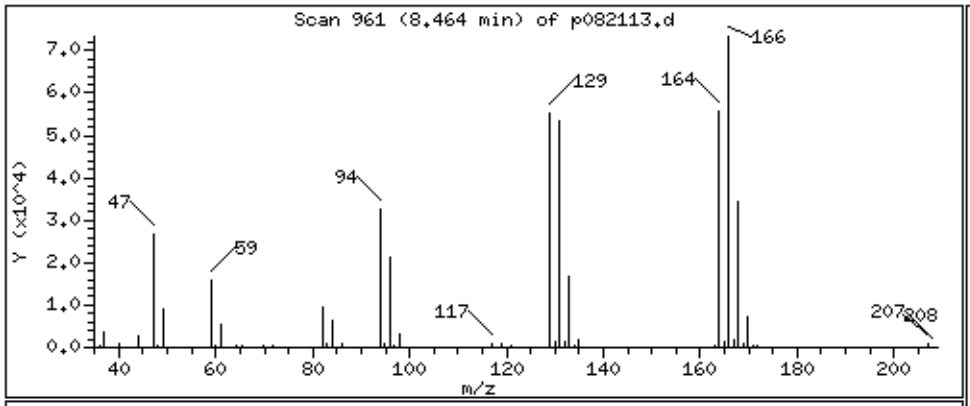
Operator: mb

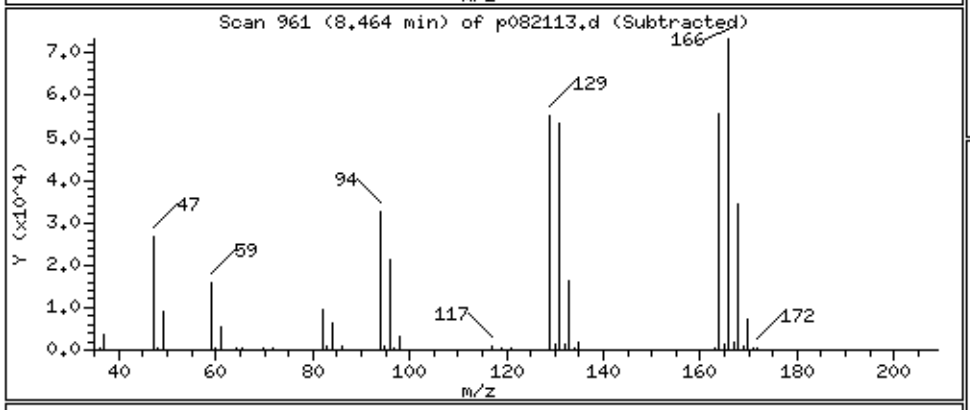
Column phase: RTX-624

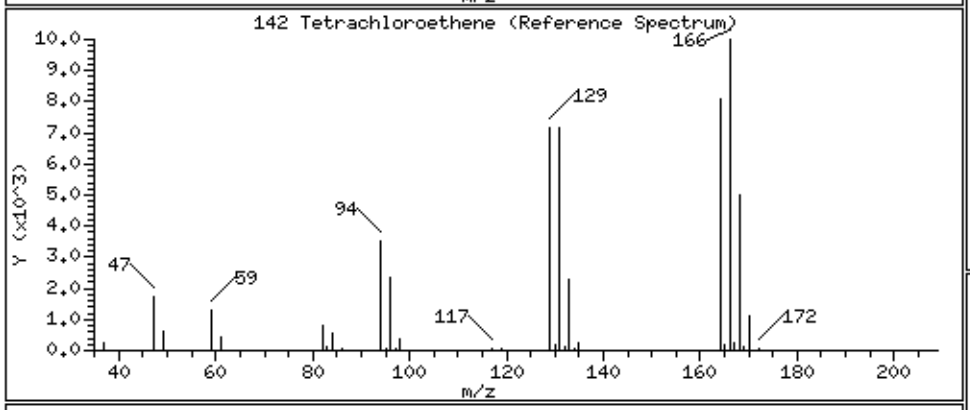
Column diameter: 0.25

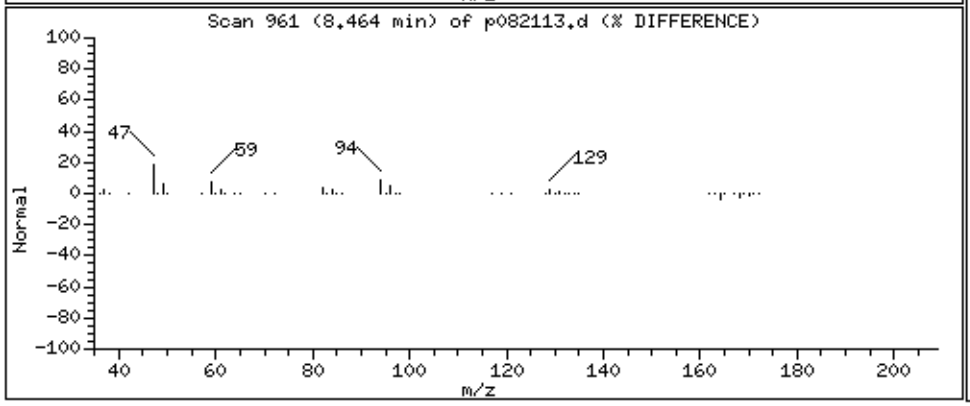
142 Tetrachloroethene

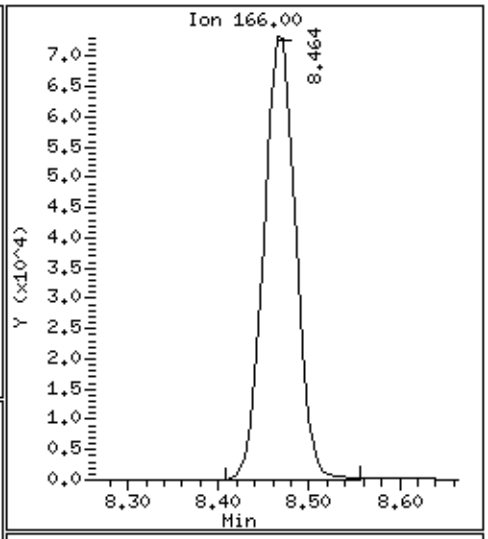
Concentration: 43.880 PPBV

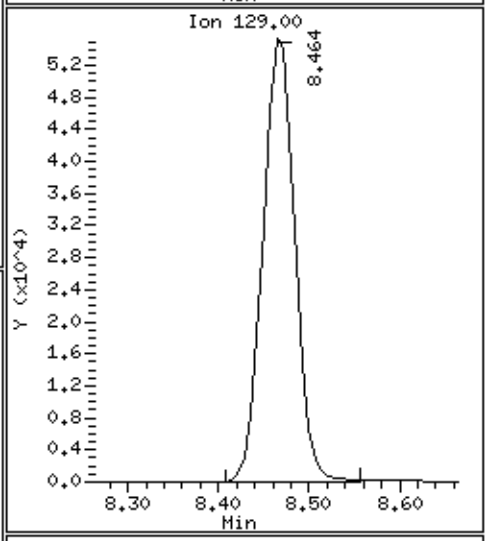


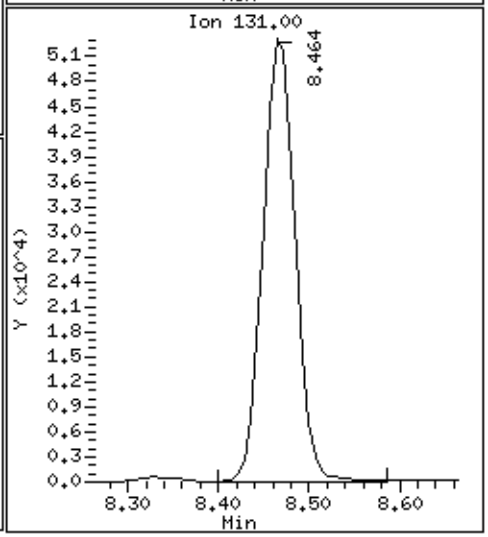












Data File: /chem/msdp.i/21AUG21.b/p082113.d

Date : 21-AUG-2021 17:45

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1L1751

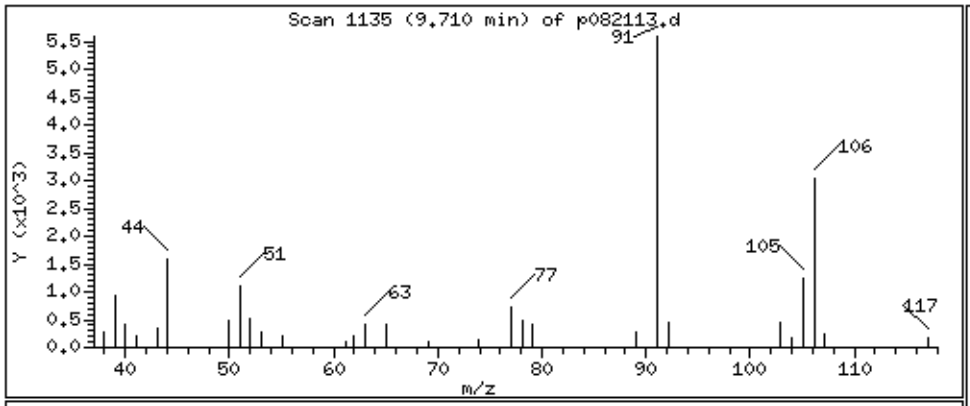
Operator: mb

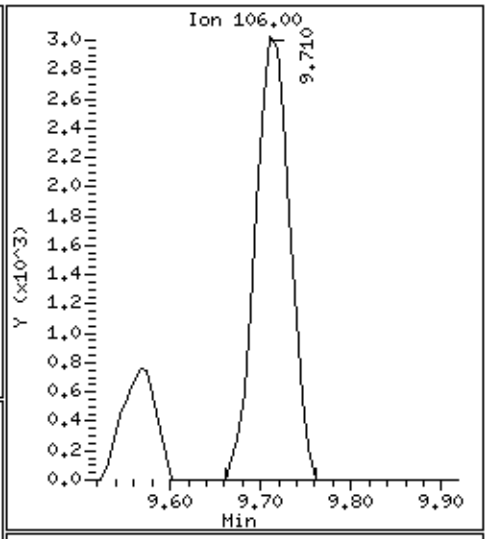
Column phase: RTX-624

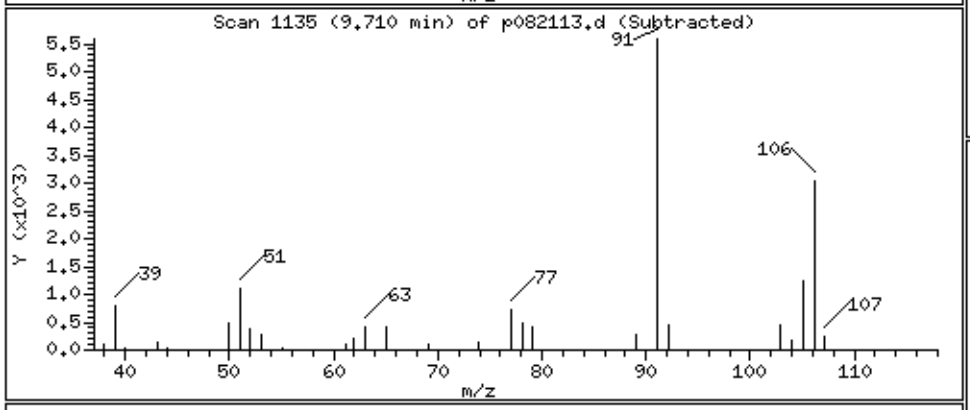
Column diameter: 0.25

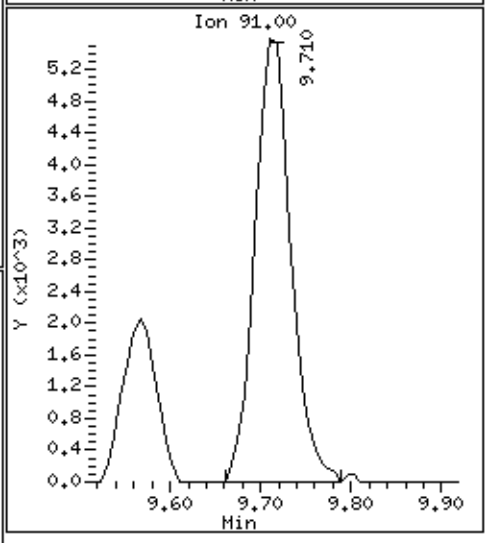
158 m,p-Xylene

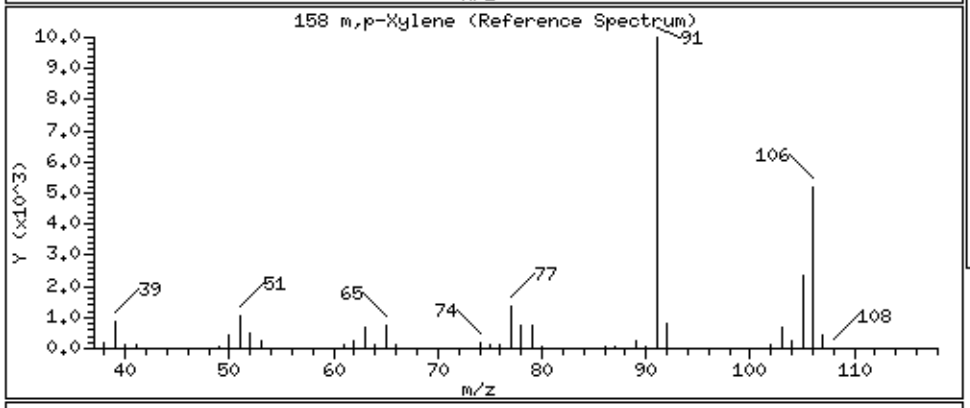
Concentration: 1.720 PPBV

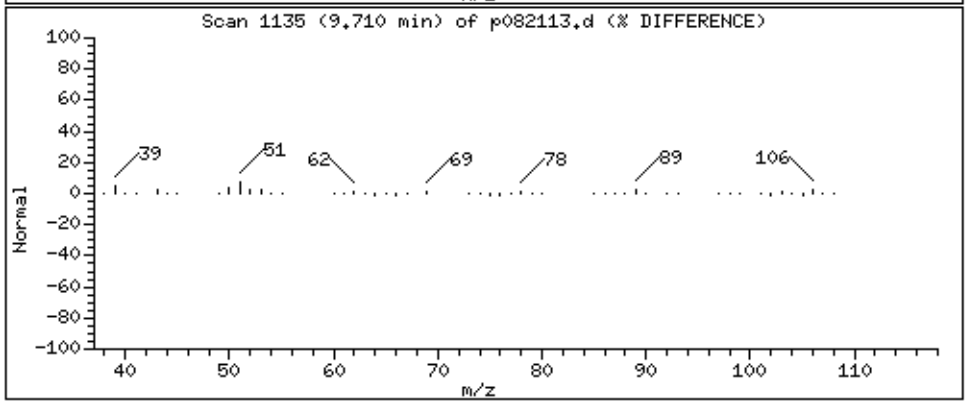












eurofins | Air Toxics

Client Sample ID: SSV-HMBSS01-02

Lab ID#: 2108390-25A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p082114**	**Date of Collection:**	**8/17/21 1:22:00 PM**
Dil. Factor:	**2.06**	**Date of Analysis:**	**8/21/21 06:15 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1,2-Tetrachloroethane	4.1	Not Detected	28	Not Detected
1,1,1-Trichloroethane	1.0	Not Detected	5.6	Not Detected
1,1,2,2-Tetrachloroethane	1.0	Not Detected	7.1	Not Detected
1,1,2-Trichloroethane	1.0	Not Detected	5.6	Not Detected
1,1-Dichloroethane	1.0	Not Detected	4.2	Not Detected
1,1-Dichloroethene	1.0	Not Detected	4.1	Not Detected
1,1-Difluoroethane	4.1	Not Detected	11	Not Detected
1,2,3-Trichloropropane	4.1	Not Detected	25	Not Detected
1,2,4-Trichlorobenzene	4.1	Not Detected	30	Not Detected
1,2,4-Trimethylbenzene	1.0	Not Detected	5.1	Not Detected
1,2-Dibromo-3-chloropropane	4.1	Not Detected	40	Not Detected
1,2-Dibromoethane (EDB)	1.0	Not Detected	7.9	Not Detected
1,2-Dichlorobenzene	1.0	Not Detected	6.2	Not Detected
1,2-Dichloroethane	1.0	Not Detected	4.2	Not Detected
1,2-Dichloropropane	1.0	Not Detected	4.8	Not Detected
1,3,5-Trimethylbenzene	1.0	Not Detected	5.1	Not Detected
1,3-Butadiene	1.0	Not Detected	2.3	Not Detected
1,3-Dichlorobenzene	1.0	Not Detected	6.2	Not Detected
1,4-Dichlorobenzene	1.0	Not Detected	6.2	Not Detected
1,4-Dioxane	4.1	Not Detected	15	Not Detected
2,2,4-Trimethylpentane	1.0	Not Detected	4.8	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.1	Not Detected	12	Not Detected
2-Hexanone	4.1	Not Detected	17	Not Detected
2-Propanol	4.1	5.2	10	13
3-Chloropropene	4.1	Not Detected	13	Not Detected
4-Ethyltoluene	1.0	Not Detected	5.1	Not Detected
4-Methyl-2-pentanone	1.0	Not Detected	4.2	Not Detected
Acetone	10	Not Detected	24	Not Detected
Acrolein	4.1	Not Detected	9.4	Not Detected
Acrylonitrile	4.1	Not Detected	8.9	Not Detected
alpha-Chlorotoluene	1.0	Not Detected	5.3	Not Detected
Benzene	1.0	Not Detected	3.3	Not Detected
Bromodichloromethane	1.0	Not Detected	6.9	Not Detected
Bromoform	1.0	Not Detected	11	Not Detected
Bromomethane	10	Not Detected	40	Not Detected
Carbon Disulfide	4.1	Not Detected	13	Not Detected
Carbon Tetrachloride	1.0	Not Detected	6.5	Not Detected
Chlorobenzene	1.0	Not Detected	4.7	Not Detected
Chloroethane	4.1	Not Detected	11	Not Detected
Chloroform	1.0	Not Detected	5.0	Not Detected
Chloromethane	10	Not Detected	21	Not Detected
cis-1,2-Dichloroethene	1.0	Not Detected	4.1	Not Detected

eurofins | Air Toxics

Client Sample ID: SSV-HMBSS01-02

Lab ID#: 2108390-25A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p082114**	**Date of Collection:**	**8/17/21 1:22:00 PM**
Dil. Factor:	**2.06**	**Date of Analysis:**	**8/21/21 06:15 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,3-Dichloropropene	1.0	Not Detected	4.7	Not Detected
Cumene	1.0	Not Detected	5.1	Not Detected
Cyclohexane	1.0	Not Detected	3.5	Not Detected
Dibromochloromethane	1.0	Not Detected	8.8	Not Detected
Dibromomethane	4.1	Not Detected	29	Not Detected
Ethanol	10	Not Detected	19	Not Detected
Ethyl Acetate	4.1	Not Detected	15	Not Detected
Ethyl Benzene	1.0	Not Detected	4.5	Not Detected
Ethyl-tert-butyl ether	4.1	Not Detected	17	Not Detected
Freon 11	1.0	Not Detected	5.8	Not Detected
Freon 12	1.0	Not Detected	5.1	Not Detected
Freon 113	1.0	Not Detected	7.9	Not Detected
Freon 114	1.0	Not Detected	7.2	Not Detected
Freon 134a	4.1	Not Detected	17	Not Detected
Heptane	1.0	Not Detected	4.2	Not Detected
Hexachlorobutadiene	4.1	Not Detected	44	Not Detected
Hexachloroethane	4.1	Not Detected	40	Not Detected
Hexane	1.0	16	3.6	58
Iodomethane	10	Not Detected	60	Not Detected
Isopropyl ether	4.1	Not Detected	17	Not Detected
m,p-Xylene	1.0	1.6	4.5	6.7
Methyl tert-butyl ether	4.1	Not Detected	15	Not Detected
Methylene Chloride	10	Not Detected	36	Not Detected
Naphthalene	2.1	Not Detected	11	Not Detected
o-Xylene	1.0	Not Detected	4.5	Not Detected
Propylbenzene	1.0	Not Detected	5.1	Not Detected
Propylene	4.1	Not Detected	7.1	Not Detected
Styrene	1.0	Not Detected	4.4	Not Detected
tert-Amyl methyl ether	4.1	Not Detected	17	Not Detected
tert-Butyl alcohol	4.1	Not Detected	12	Not Detected
Tetrachloroethene	1.0	11	7.0	72
Tetrahydrofuran	1.0	Not Detected	3.0	Not Detected
Toluene	1.0	Not Detected	3.9	Not Detected
TPH ref. to Gasoline (MW=100)	100	Not Detected	420	Not Detected
trans-1,2-Dichloroethene	1.0	Not Detected	4.1	Not Detected
trans-1,3-Dichloropropene	1.0	Not Detected	4.7	Not Detected
Trichloroethene	1.0	Not Detected	5.5	Not Detected
Vinyl Acetate	4.1	Not Detected	14	Not Detected
Vinyl Bromide	4.1	Not Detected	18	Not Detected
Vinyl Chloride	1.0	Not Detected	2.6	Not Detected

Container Type: 1 Liter Summa Canister

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Client Sample ID: SSV-HMBSS01-02

Lab ID#: 2108390-25A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p082114**	**Date of Collection:**	**8/17/21 1:22:00 PM**
Dil. Factor:	**2.06**	**Date of Analysis:**	**8/21/21 06:15 PM**

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	111	70-130
4-Bromofluorobenzene	105	70-130

US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/21AUG21.b/p082114.d
Lab Smp Id: 2108390-25A
Inj Date : 21-AUG-2021 18:15
Operator : mb Inst ID: msdp.i
Smp Info : 200ml N2042
Misc Info : 5.5 Hg->10 psi
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/21AUG21.b/p21q0519a.m
Meth Date : 23-Aug-2021 07:32 lk8g Quant Type: ISTD
Cal Date : 19-MAY-2021 19:45 Cal File: p051915.d
Als bottle: 5
Dil Factor: 2.06000
Integrator: HP RTE Compound Sublist: AEC25677.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE		(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 90 Bromochloromethane						CAS #: 74-97-5		
5.785	5.785 (1.000)	130	101967	25.0000			80.00- 120.00	100.00
5.785	5.785 (1.000)	128	81729				48.23- 108.23	80.15
5.785	5.785 (1.000)	49	234063				150.57- 210.57	229.55
* 108 1,4-Difluorobenzene						CAS #: 540-36-3		
6.666	6.666 (1.000)	114	365558	25.0000			80.00- 120.00	100.00
6.666	6.666 (1.000)	88	54319				0.00- 45.71	14.86
* 153 Chlorobenzene-d5						CAS #: 3114-55-4		
9.460	9.460 (1.000)	117	380886	25.0000			80.00- 120.00	100.00
9.460	9.460 (1.000)	82	195434				23.78- 83.78	51.31
$ 104 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
6.315	6.315 (1.092)	65	156181	27.7542	27.754		80.00- 120.00	100.00
6.315	6.315 (1.092)	67	74753				27.21- 87.21	47.86
$ 134 Toluene-d8						CAS #: 2037-26-5		
7.891	7.891 (1.184)	98	402155	25.3342	25.334		80.00- 120.00	100.00
7.891	7.891 (1.184)	70	44913				0.00- 40.44	11.17

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 134 Toluene-d8 (continued)							
7.891	7.891 (1.184)	100	257442			34.95- 94.95	64.02
$ 170 4-Bromofluorobenzene					CAS #: 460-00-4		
10.921	10.921 (1.154)	174	256731	26.2487	26.249	80.00- 120.00	100.00
10.921	10.921 (1.154)	95	300355			95.92- 155.92	116.99
10.921	10.921 (1.154)	176	242668			66.89- 126.89	94.52
52 2-Propanol					CAS #: 67-63-0		
3.909	3.894 (0.676)	45	27272	2.53134	5.214	80.00- 120.00	100.00
3.901	3.894 (0.674)	43	6631			0.00- 47.19	24.32
67 Hexane					CAS #: 110-54-3		
4.697	4.697 (0.812)	57	80682	8.03211	16.546	80.00- 120.00	100.00
4.697	4.697 (0.812)	43	65184			37.52- 97.52	80.79
4.697	4.697 (0.812)	86	8489			0.00- 41.48	10.52
142 Tetrachloroethene					CAS #: 127-18-4		
8.471	8.464 (0.895)	166	44691	5.14832	10.606	80.00- 120.00	100.00
8.464	8.464 (0.895)	129	34591			47.84- 107.84	77.40
8.471	8.464 (0.895)	131	34028			45.29- 105.29	76.14
158 m,p-Xylene					CAS #: 108-38-3		
9.718	9.718 (1.027)	106	7467	0.75386	1.553	80.00- 120.00	100.00
9.718	9.718 (1.027)	91	14630			163.73- 223.73	195.91

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p082114.d
Lab Smp Id: 2108390-25A
Analysis Type: VOA
Quant Type: ISTD
Operator: mb
Method File: /chem/msdp.i/21AUG21.b/p21q0519a.m
Misc Info: 5.5 Hg->10 psi

Calibration Date: 21-AUG-2021
Calibration Time: 09:37
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	102894	61736	144052	101967	-0.90
108 1,4-Difluorobenze	387356	232414	542298	365558	-5.63
153 Chlorobenzene-d5	386134	231680	540588	380886	-1.36

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.79	5.46	6.12	5.79	0.00
108 1,4-Difluorobenze	6.67	6.34	7.00	6.67	0.00
153 Chlorobenzene-d5	9.46	9.13	9.79	9.46	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 24-Aug-2021 12:29

US32TAR1

RECOVERY REPORT

Client Name: Client SDG: 21AUG21
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 2108390-25A
Level: LOW Operator: mb
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT20_new.spk Quant Type: ISTD
Sublist File: AEC25677.sub
Method File: /chem/msdp.i/21AUG21.b/p21q0519a.m
Misc Info: 5.5 Hg->10 psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 104 1,2-Dichloroethan	25.000	27.754	111.02	70-130
$ 134 Toluene-d8	25.000	25.334	101.34	70-130
$ 170 4-Bromofluorobenz	25.000	26.249	104.99	70-130

Data File: /chem/msdp.i/21AUG21.b/p082114.d

Date : 21-AUG-2021 18:15

Client ID:

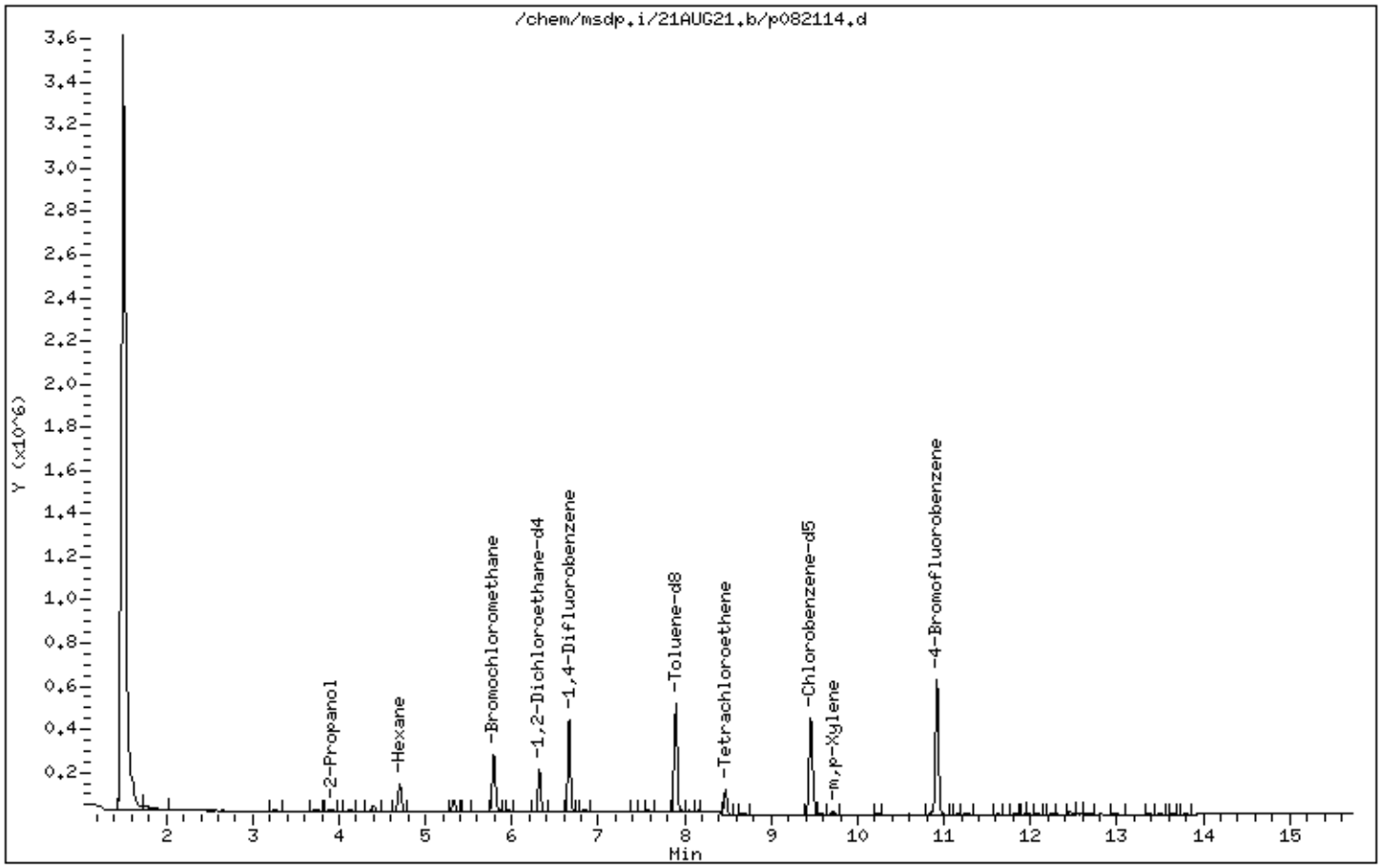
Instrument: msdp.i

Sample Info: 200ml N2042

Operator: mb

Column phase: RTX-624

Column diameter: 0.25



Data File: /chem/msdp.i/21AUG21.b/p082114.d

Date : 21-AUG-2021 18:15

Client ID:

Instrument: msdp.i

Sample Info: 200ml N2042

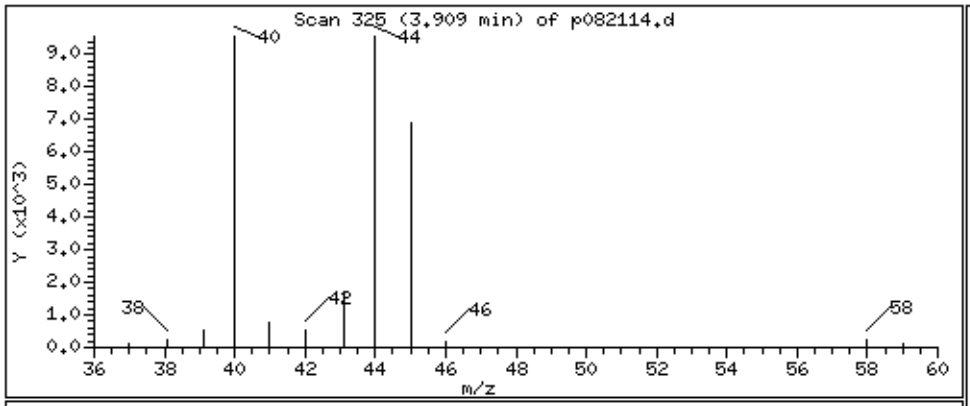
Operator: mb

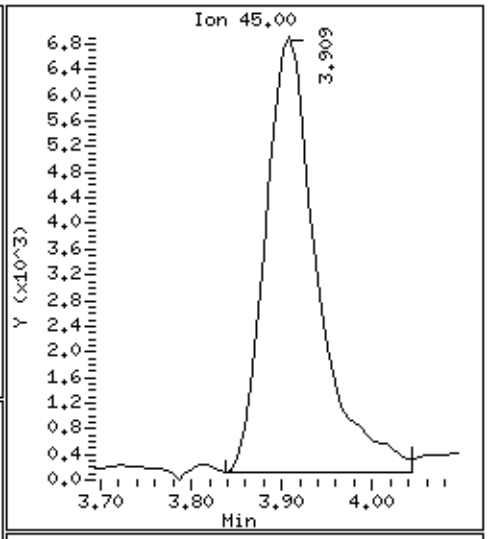
Column phase: RTX-624

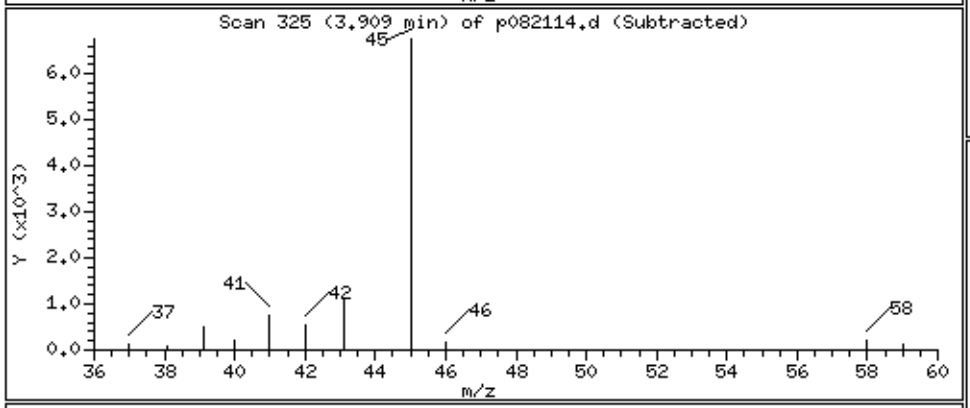
Column diameter: 0.25

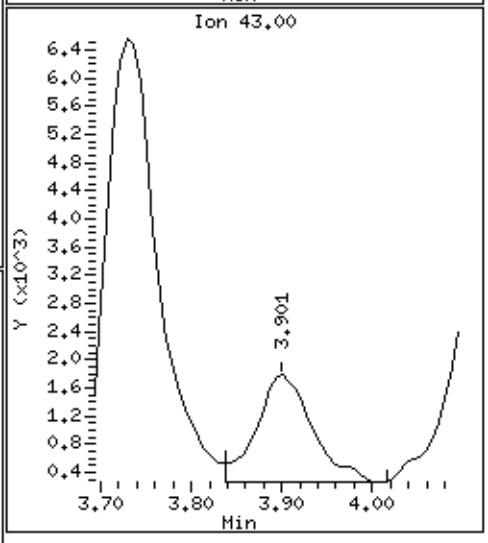
52 2-Propanol

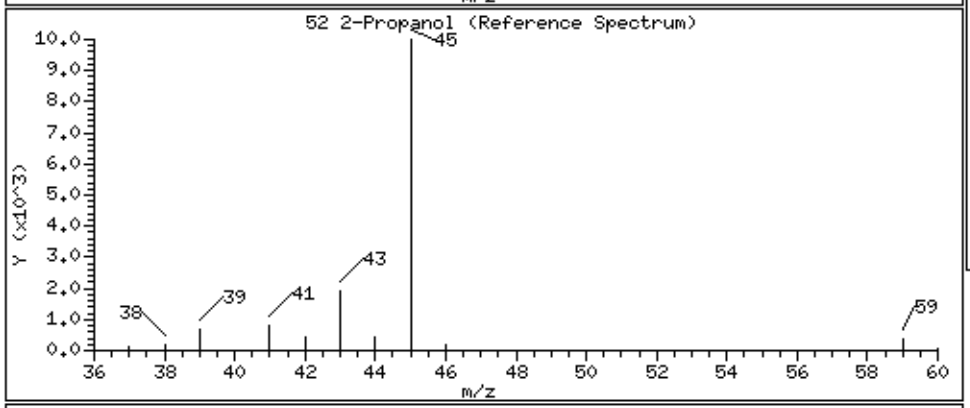
Concentration: 5.214 PPBV

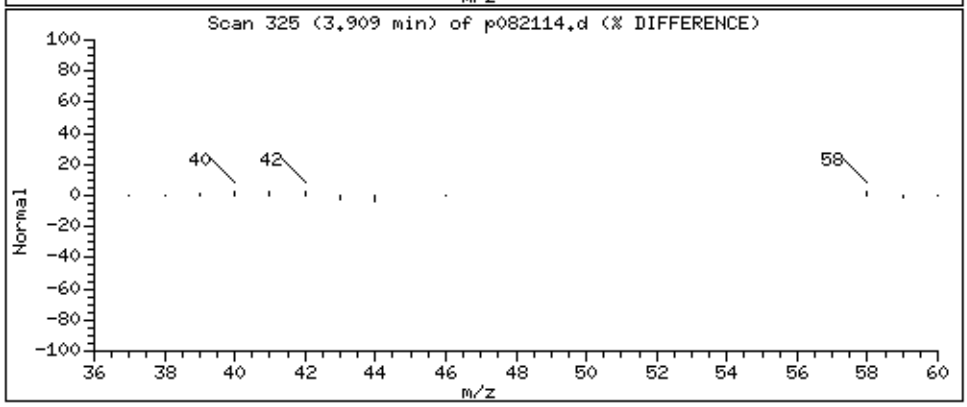












Data File: /chem/msdp.i/21AUG21.b/p082114.d

Date : 21-AUG-2021 18:15

Client ID:

Instrument: msdp.i

Sample Info: 200ml N2042

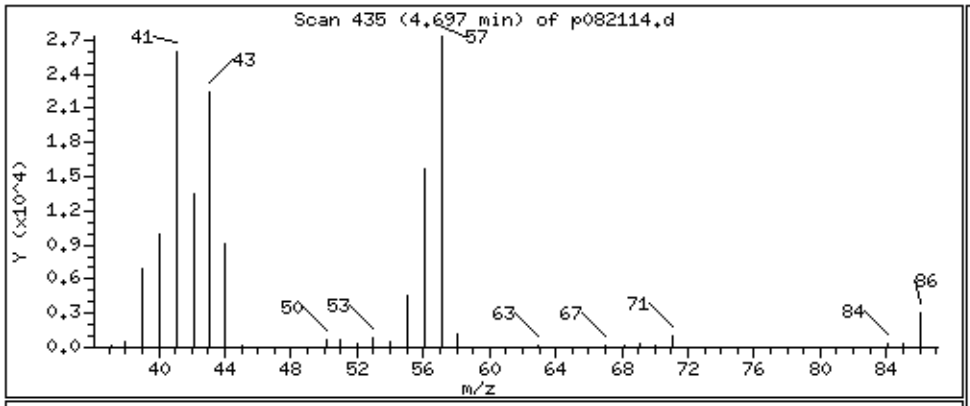
Operator: mb

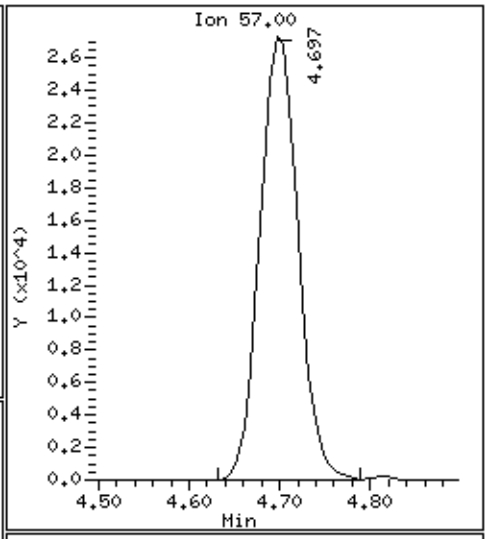
Column phase: RTX-624

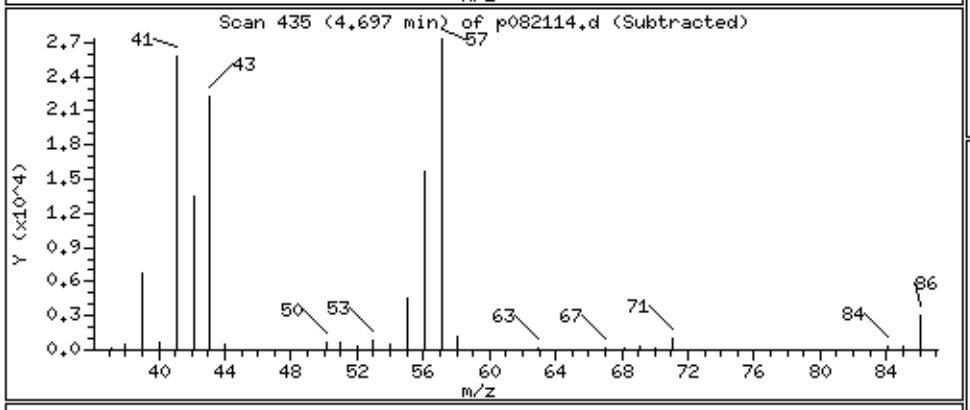
Column diameter: 0.25

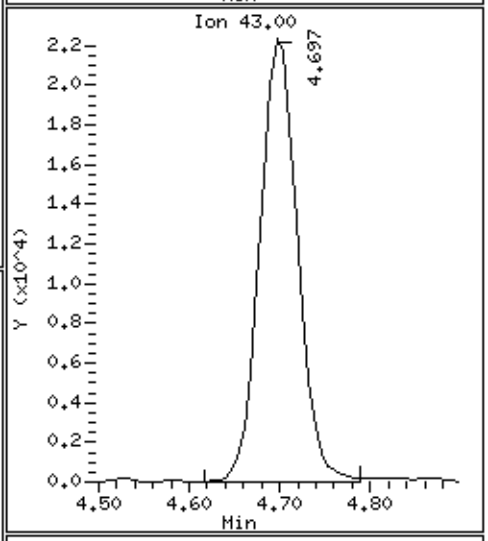
67 Hexane

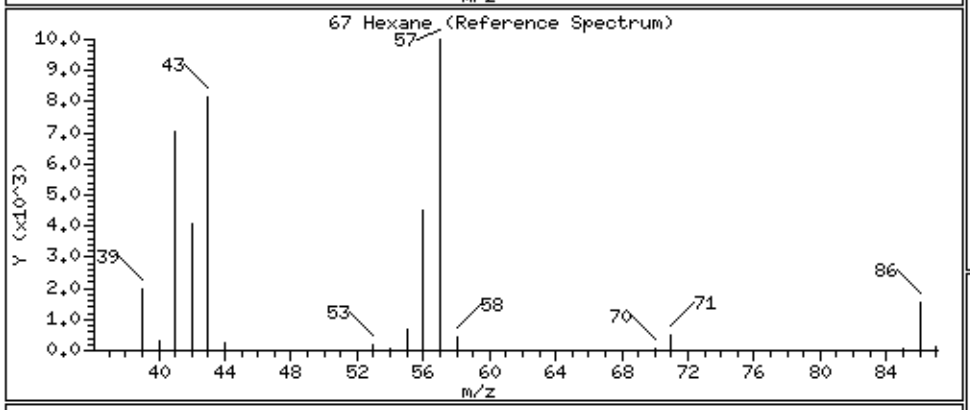
Concentration: 16.546 PPBV

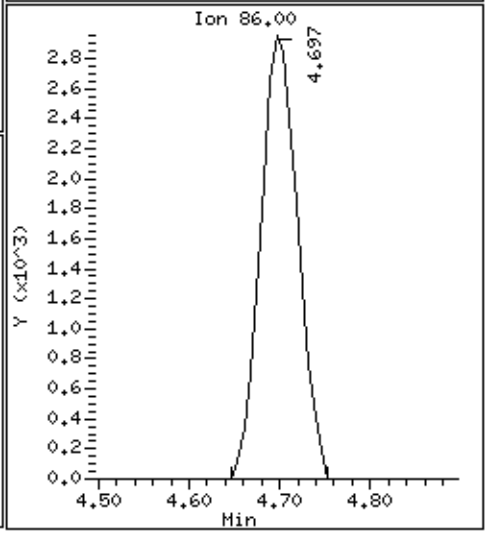


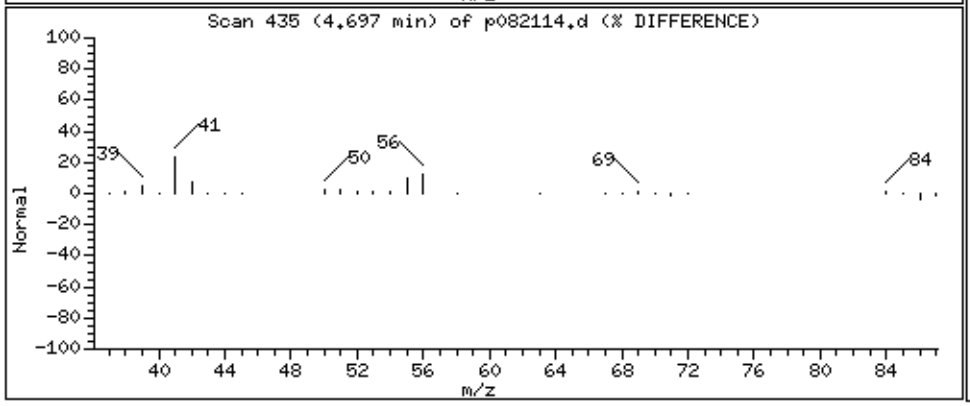












Data File: /chem/msdp.i/21AUG21.b/p082114.d

Date : 21-AUG-2021 18:15

Client ID:

Instrument: msdp.i

Sample Info: 200ml N2042

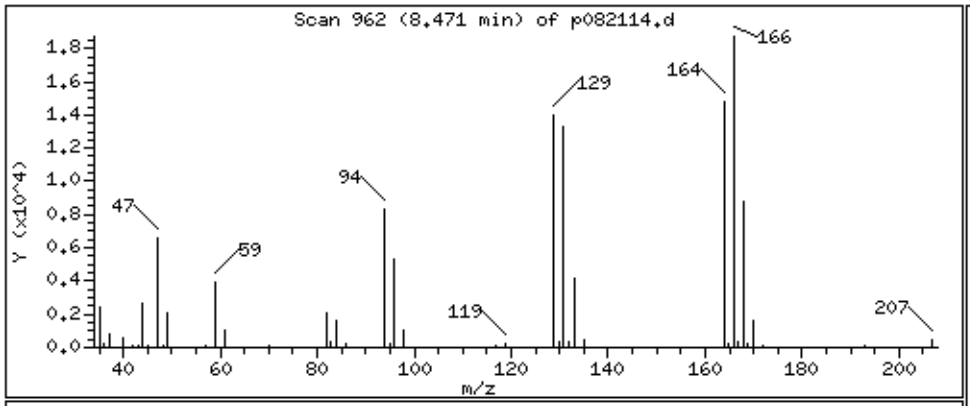
Operator: mb

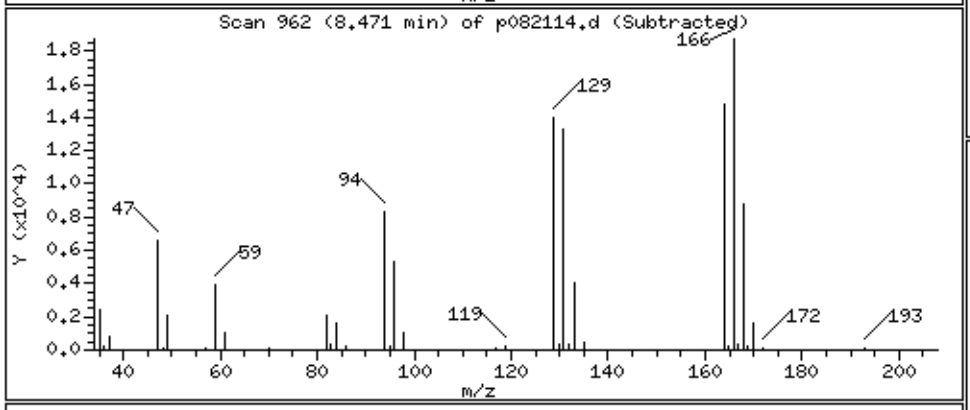
Column phase: RTX-624

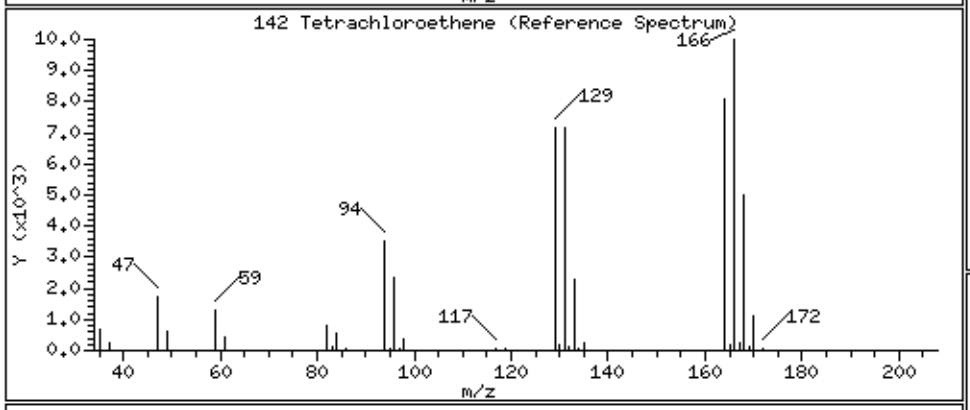
Column diameter: 0.25

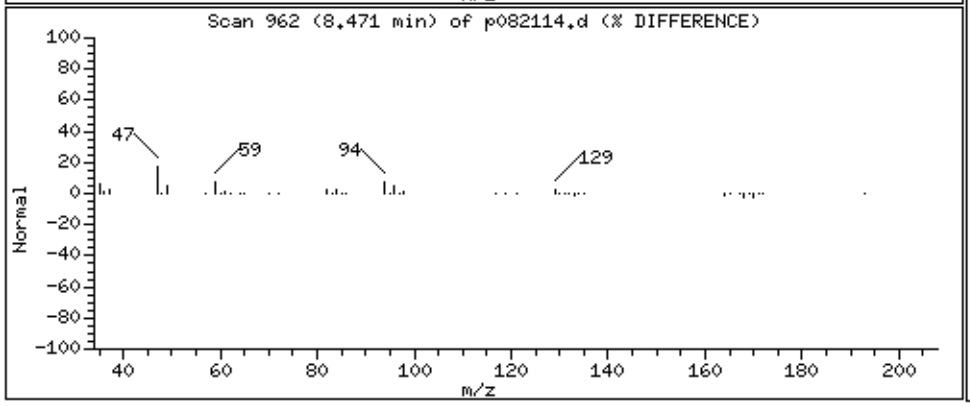
142 Tetrachloroethene

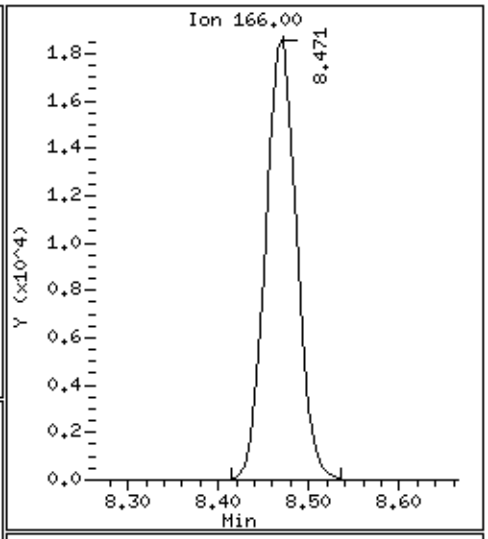
Concentration: 10.606 PPBV

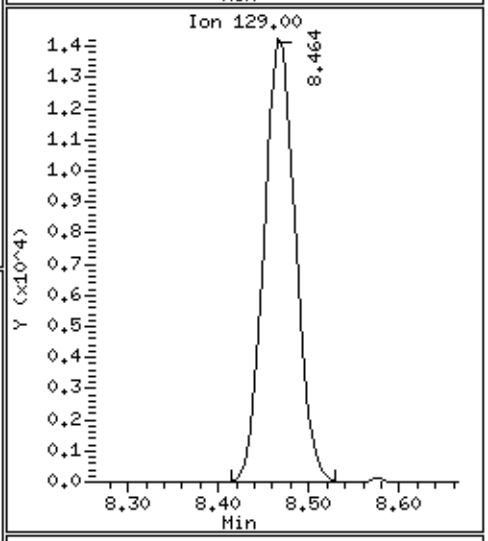


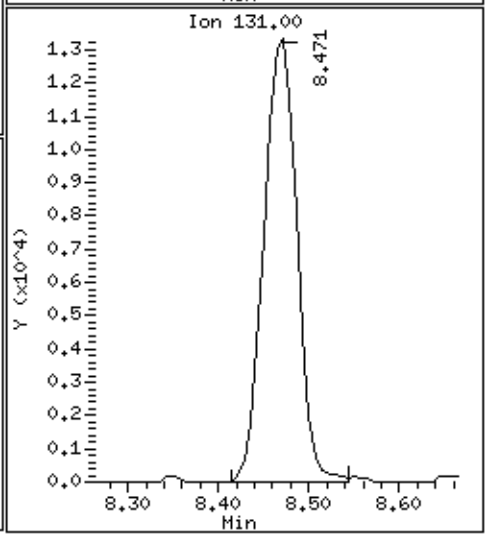












Data File: /chem/msdp.i/21AUG21.b/p082114.d

Page 5

Date : 21-AUG-2021 18:15

Client ID:

Instrument: msdp.i

Sample Info: 200ml N2042

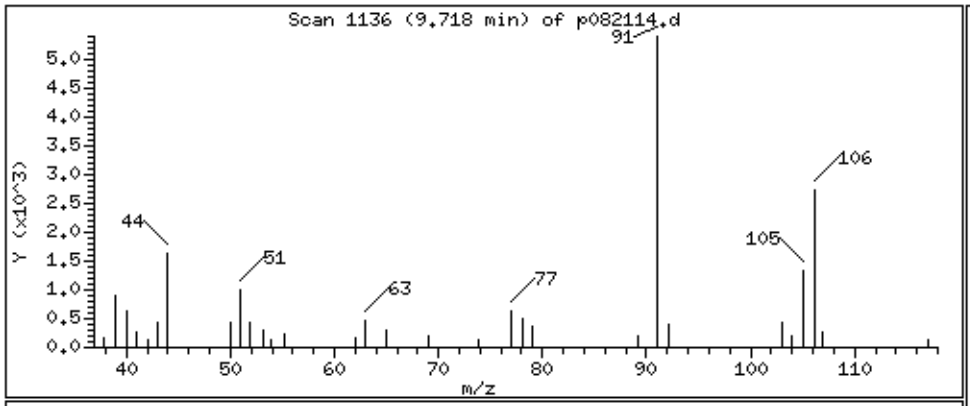
Operator: mb

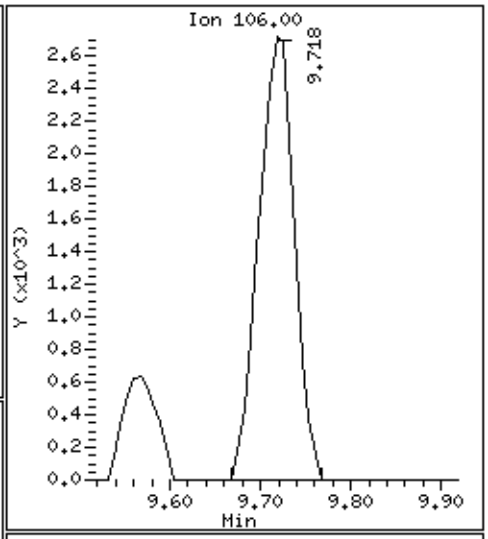
Column phase: RTX-624

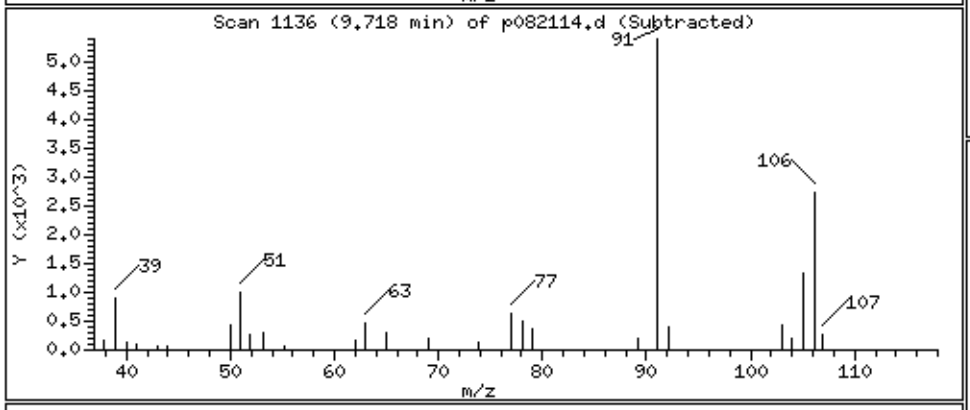
Column diameter: 0.25

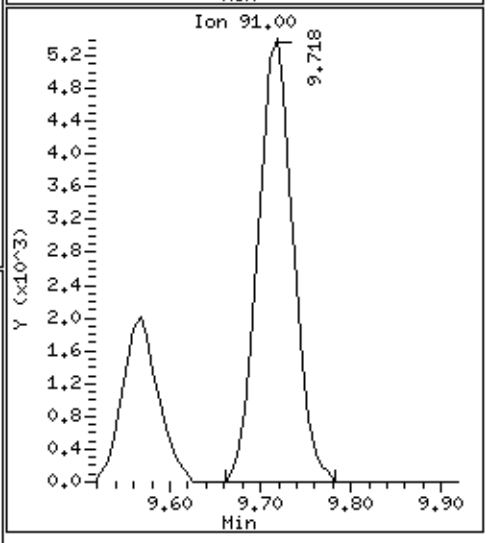
158 m,p-Xylene

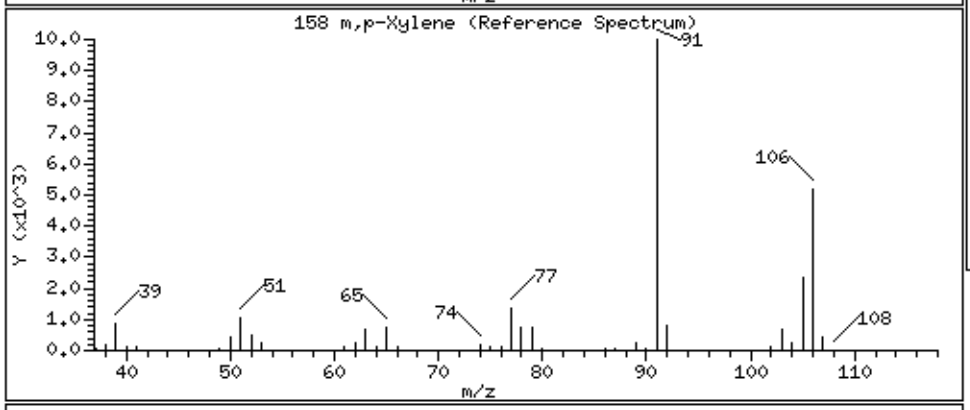
Concentration: 1.553 PPBV

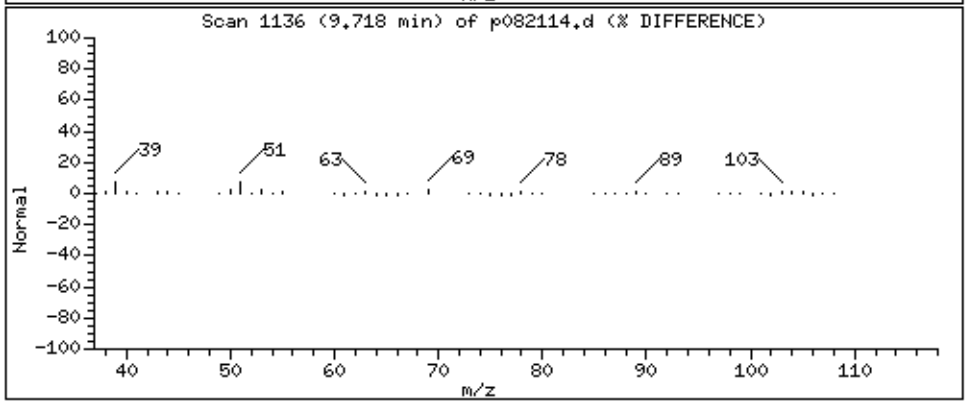












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Client Sample ID: SSV-JSS01-02

Lab ID#: 2108390-26A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p082115**	**Date of Collection:**	**8/17/21 1:45:00 PM**
Dil. Factor:	**2.10**	**Date of Analysis:**	**8/21/21 06:44 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1,2-Tetrachloroethane	4.2	Not Detected	29	Not Detected
1,1,1-Trichloroethane	1.0	Not Detected	5.7	Not Detected
1,1,2,2-Tetrachloroethane	1.0	Not Detected	7.2	Not Detected
1,1,2-Trichloroethane	1.0	Not Detected	5.7	Not Detected
1,1-Dichloroethane	1.0	Not Detected	4.2	Not Detected
1,1-Dichloroethene	1.0	Not Detected	4.2	Not Detected
1,1-Difluoroethane	4.2	Not Detected	11	Not Detected
1,2,3-Trichloropropane	4.2	Not Detected	25	Not Detected
1,2,4-Trichlorobenzene	4.2	Not Detected	31	Not Detected
1,2,4-Trimethylbenzene	1.0	Not Detected	5.2	Not Detected
1,2-Dibromo-3-chloropropane	4.2	Not Detected	40	Not Detected
1,2-Dibromoethane (EDB)	1.0	Not Detected	8.1	Not Detected
1,2-Dichlorobenzene	1.0	Not Detected	6.3	Not Detected
1,2-Dichloroethane	1.0	Not Detected	4.2	Not Detected
1,2-Dichloropropane	1.0	Not Detected	4.8	Not Detected
1,3,5-Trimethylbenzene	1.0	Not Detected	5.2	Not Detected
1,3-Butadiene	1.0	Not Detected	2.3	Not Detected
1,3-Dichlorobenzene	1.0	Not Detected	6.3	Not Detected
1,4-Dichlorobenzene	1.0	Not Detected	6.3	Not Detected
1,4-Dioxane	4.2	Not Detected	15	Not Detected
2,2,4-Trimethylpentane	1.0	Not Detected	4.9	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.2	Not Detected	12	Not Detected
2-Hexanone	4.2	Not Detected	17	Not Detected
2-Propanol	4.2	8.0	10	20
3-Chloropropene	4.2	Not Detected	13	Not Detected
4-Ethyltoluene	1.0	Not Detected	5.2	Not Detected
4-Methyl-2-pentanone	1.0	Not Detected	4.3	Not Detected
Acetone	10	Not Detected	25	Not Detected
Acrolein	4.2	Not Detected	9.6	Not Detected
Acrylonitrile	4.2	Not Detected	9.1	Not Detected
alpha-Chlorotoluene	1.0	Not Detected	5.4	Not Detected
Benzene	1.0	Not Detected	3.4	Not Detected
Bromodichloromethane	1.0	Not Detected	7.0	Not Detected
Bromoform	1.0	Not Detected	11	Not Detected
Bromomethane	10	Not Detected	41	Not Detected
Carbon Disulfide	4.2	10	13	32
Carbon Tetrachloride	1.0	Not Detected	6.6	Not Detected
Chlorobenzene	1.0	Not Detected	4.8	Not Detected
Chloroethane	4.2	Not Detected	11	Not Detected
Chloroform	1.0	Not Detected	5.1	Not Detected
Chloromethane	10	Not Detected	22	Not Detected
cis-1,2-Dichloroethene	1.0	Not Detected	4.2	Not Detected

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Client Sample ID: SSV-JSS01-02

Lab ID#: 2108390-26A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p082115**	**Date of Collection:**	**8/17/21 1:45:00 PM**
Dil. Factor:	**2.10**	**Date of Analysis:**	**8/21/21 06:44 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,3-Dichloropropene	1.0	Not Detected	4.8	Not Detected
Cumene	1.0	Not Detected	5.2	Not Detected
Cyclohexane	1.0	Not Detected	3.6	Not Detected
Dibromochloromethane	1.0	Not Detected	8.9	Not Detected
Dibromomethane	4.2	Not Detected	30	Not Detected
Ethanol	10	23	20	44
Ethyl Acetate	4.2	Not Detected	15	Not Detected
Ethyl Benzene	1.0	Not Detected	4.6	Not Detected
Ethyl-tert-butyl ether	4.2	Not Detected	18	Not Detected
Freon 11	1.0	Not Detected	5.9	Not Detected
Freon 12	1.0	Not Detected	5.2	Not Detected
Freon 113	1.0	Not Detected	8.0	Not Detected
Freon 114	1.0	Not Detected	7.3	Not Detected
Freon 134a	4.2	Not Detected	18	Not Detected
Heptane	1.0	Not Detected	4.3	Not Detected
Hexachlorobutadiene	4.2	Not Detected	45	Not Detected
Hexachloroethane	4.2	Not Detected	41	Not Detected
Hexane	1.0	35	3.7	120
Iodomethane	10	Not Detected	61	Not Detected
Isopropyl ether	4.2	Not Detected	18	Not Detected
m,p-Xylene	1.0	2.2	4.6	9.5
Methyl tert-butyl ether	4.2	Not Detected	15	Not Detected
Methylene Chloride	10	Not Detected	36	Not Detected
Naphthalene	2.1	Not Detected	11	Not Detected
o-Xylene	1.0	Not Detected	4.6	Not Detected
Propylbenzene	1.0	Not Detected	5.2	Not Detected
Propylene	4.2	Not Detected	7.2	Not Detected
Styrene	1.0	Not Detected	4.5	Not Detected
tert-Amyl methyl ether	4.2	Not Detected	18	Not Detected
tert-Butyl alcohol	4.2	Not Detected	13	Not Detected
Tetrachloroethene	1.0	3.4	7.1	23
Tetrahydrofuran	1.0	Not Detected	3.1	Not Detected
Toluene	1.0	1.4	4.0	5.2
TPH ref. to Gasoline (MW=100)	100	120	430	490
trans-1,2-Dichloroethene	1.0	Not Detected	4.2	Not Detected
trans-1,3-Dichloropropene	1.0	Not Detected	4.8	Not Detected
Trichloroethene	1.0	Not Detected	5.6	Not Detected
Vinyl Acetate	4.2	Not Detected	15	Not Detected
Vinyl Bromide	4.2	Not Detected	18	Not Detected
Vinyl Chloride	1.0	Not Detected	2.7	Not Detected

Container Type: 1 Liter Summa Canister

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Client Sample ID: SSV-JSS01-02

Lab ID#: 2108390-26A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p082115**	**Date of Collection:**	**8/17/21 1:45:00 PM**
Dil. Factor:	**2.10**	**Date of Analysis:**	**8/21/21 06:44 PM**

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	110	70-130
4-Bromofluorobenzene	111	70-130

US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/21AUG21.b/p082115.d
Lab Smp Id: 2108390-26A
Inj Date : 21-AUG-2021 18:44
Operator : mb Inst ID: msdp.i
Smp Info : 200ml O0246
Misc Info : 6.0 Hg->10 psi
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/21AUG21.b/p21q0519a.m
Meth Date : 23-Aug-2021 07:32 lk8g Quant Type: ISTD
Cal Date : 19-MAY-2021 19:45 Cal File: p051915.d
Als bottle: 6
Dil Factor: 2.10000
Integrator: HP RTE Compound Sublist: AEC25677.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE		(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 90 Bromochloromethane						CAS #: 74-97-5		
5.785	5.785 (1.000)	130	102837	25.0000			80.00- 120.00	100.00
5.785	5.785 (1.000)	128	80946				48.23- 108.23	78.71
5.785	5.785 (1.000)	49	230181				150.57- 210.57	223.83
* 108 1,4-Difluorobenzene						CAS #: 540-36-3		
6.666	6.666 (1.000)	114	363284	25.0000			80.00- 120.00	100.00
6.666	6.666 (1.000)	88	54283				0.00- 45.71	14.94
* 153 Chlorobenzene-d5						CAS #: 3114-55-4		
9.460	9.460 (1.000)	117	383177	25.0000			80.00- 120.00	100.00
9.460	9.460 (1.000)	82	195346				23.78- 83.78	50.98
$ 104 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
6.315	6.315 (1.092)	65	156149	27.5138	27.514		80.00- 120.00	100.00
6.315	6.315 (1.092)	67	73797				27.21- 87.21	47.26
$ 134 Toluene-d8						CAS #: 2037-26-5		
7.891	7.891 (1.184)	98	398281	25.2473	25.247		80.00- 120.00	100.00
7.891	7.891 (1.184)	70	44404				0.00- 40.44	11.15

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 134 Toluene-d8 (continued)							
7.891	7.891 (1.184)	100	257909			34.95- 94.95	64.76
$ 170 4-Bromofluorobenzene					CAS #: 460-00-4		
10.921	10.921 (1.154)	174	273466	27.7925	27.792	80.00- 120.00	100.00
10.921	10.921 (1.154)	95	324975			95.92- 155.92	118.84
10.921	10.921 (1.154)	176	269343			66.89- 126.89	98.49
39 Ethanol					CAS #: 64-17-5		
3.257	3.250 (0.563)	46	11225	11.0068	23.114	80.00- 120.00	100.00
3.257	3.250 (0.563)	45	29903			511.19- 571.19	266.38
48 Carbon Disulfide					CAS #: 75-15-0		
3.837	3.830 (0.663)	76	55775	4.86651	10.220	80.00- 120.00	100.00
52 2-Propanol					CAS #: 67-63-0		
3.908	3.894 (0.676)	45	41600	3.82858	8.040	80.00- 120.00	100.00
3.901	3.894 (0.674)	43	10770			0.00- 47.19	25.89
67 Hexane					CAS #: 110-54-3		
4.696	4.697 (0.812)	57	169872	16.7682	35.213	80.00- 120.00	100.00
4.696	4.697 (0.812)	43	136972			37.52- 97.52	80.63
4.703	4.697 (0.813)	86	16616			0.00- 41.48	9.78
137 Toluene					CAS #: 108-88-3		
7.955	7.956 (1.193)	91	10886	0.65817	1.382	80.00- 120.00	100.00
7.955	7.956 (1.193)	92	5632			28.38- 88.38	51.74
142 Tetrachloroethene					CAS #: 127-18-4		
8.471	8.464 (0.895)	166	14365	1.64493	3.454	80.00- 120.00	100.00
8.464	8.464 (0.895)	129	11340			47.84- 107.84	78.94
8.471	8.464 (0.895)	131	10965			45.29- 105.29	76.33
158 m,p-Xylene					CAS #: 108-38-3		
9.718	9.718 (1.027)	106	10416	1.04530	2.195	80.00- 120.00	100.00
9.718	9.718 (1.027)	91	19527			163.73- 223.73	187.47

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p082115.d
Lab Smp Id: 2108390-26A
Analysis Type: VOA
Quant Type: ISTD
Operator: mb
Method File: /chem/msdp.i/21AUG21.b/p21q0519a.m
Misc Info: 6.0 Hg->10 psi

Calibration Date: 21-AUG-2021
Calibration Time: 09:37
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	102894	61736	144052	102837	-0.06
108 1,4-Difluorobenze	387356	232414	542298	363284	-6.21
153 Chlorobenzene-d5	386134	231680	540588	383177	-0.77

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.79	5.46	6.12	5.79	-0.00
108 1,4-Difluorobenze	6.67	6.34	7.00	6.67	-0.00
153 Chlorobenzene-d5	9.46	9.13	9.79	9.46	-0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 24-Aug-2021 12:37

US32TAR1

RECOVERY REPORT

Client Name: Client SDG: 21AUG21
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 2108390-26A
Level: LOW Operator: mb
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT20_new.spk Quant Type: ISTD
Sublist File: AEC25677.sub
Method File: /chem/msdp.i/21AUG21.b/p21q0519a.m
Misc Info: 6.0 Hg->10 psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 104 1,2-Dichloroethan	25.000	27.514	110.06	70-130
$ 134 Toluene-d8	25.000	25.247	100.99	70-130
$ 170 4-Bromofluorobenz	25.000	27.792	111.17	70-130

Data File: /chem/msdp.i/21AUG21.b/p082115.d

Date : 21-AUG-2021 18:44

Client ID:

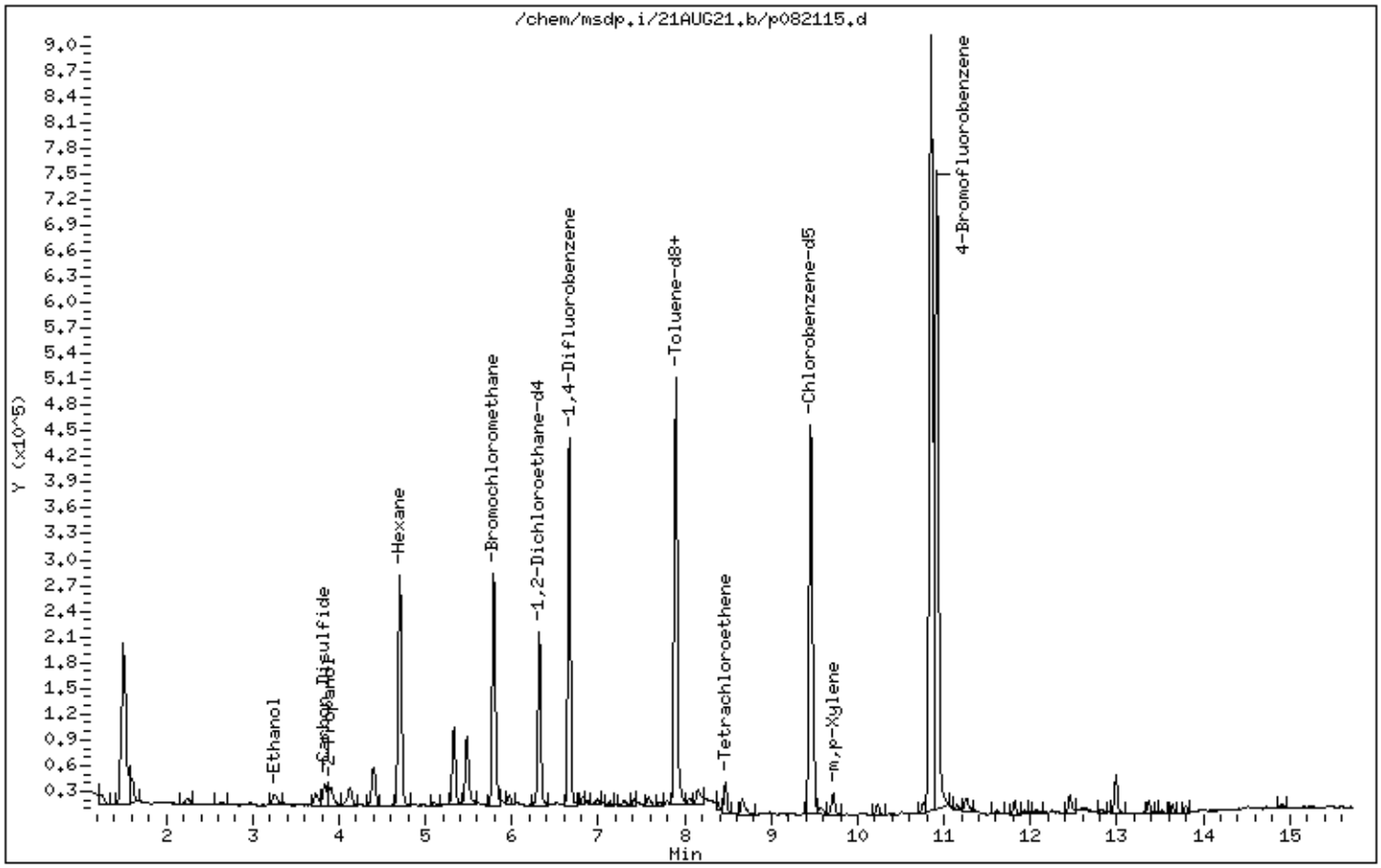
Instrument: msdp.i

Sample Info: 200ml 00246

Operator: mb

Column phase: RTX-624

Column diameter: 0.25



Data File: /chem/msdp.i/21AUG21.b/p082115.d

Date : 21-AUG-2021 18:44

Client ID:

Instrument: msdp.i

Sample Info: 200ml 00246

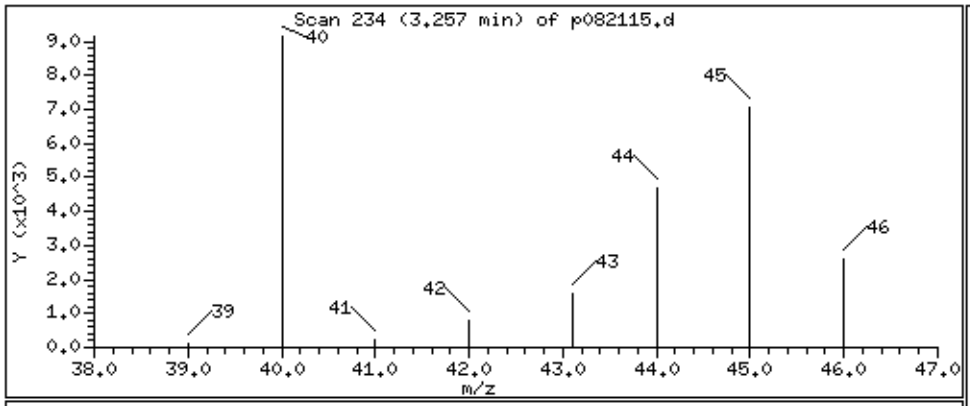
Operator: mb

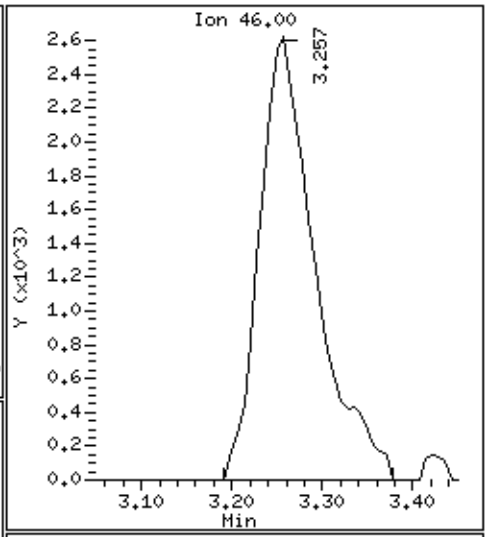
Column phase: RTX-624

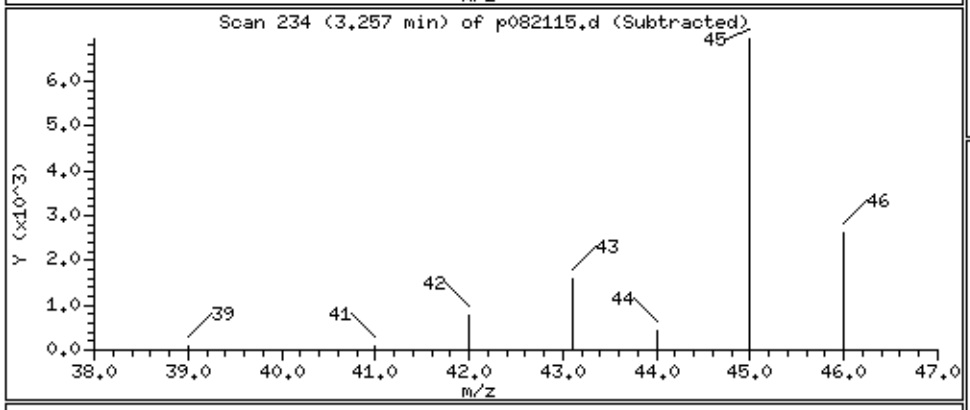
Column diameter: 0.25

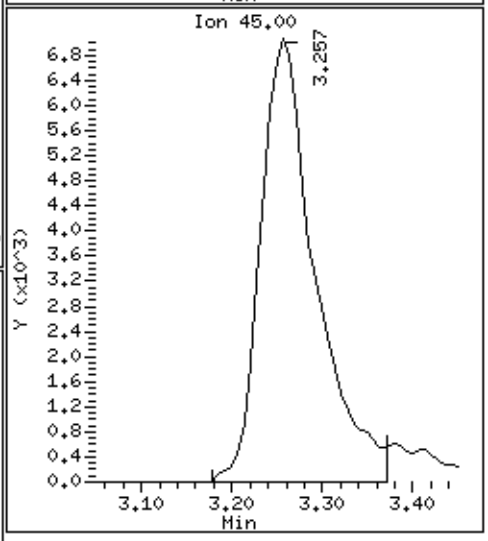
39 Ethanol

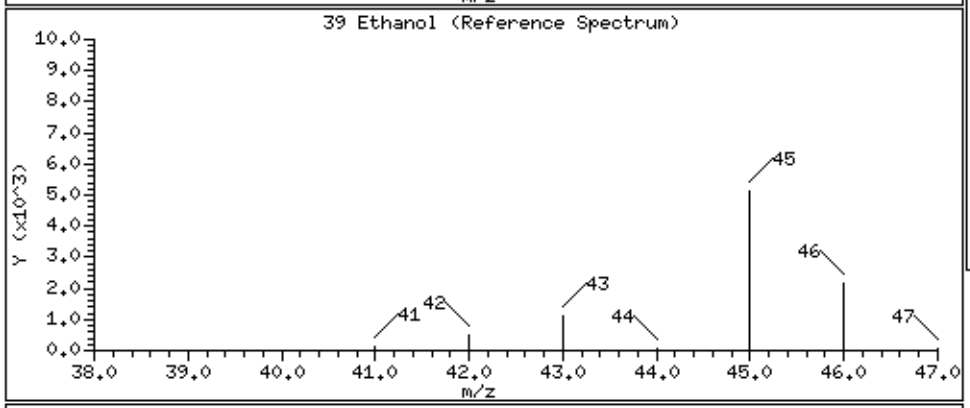
Concentration: 23.114 PPBV

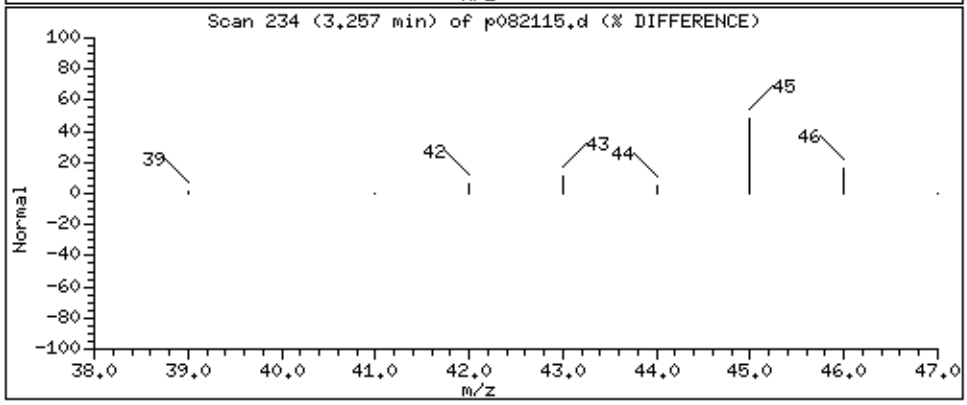












Data File: /chem/msdp.i/21AUG21.b/p082115.d

Date : 21-AUG-2021 18:44

Client ID:

Instrument: msdp.i

Sample Info: 200ml 00246

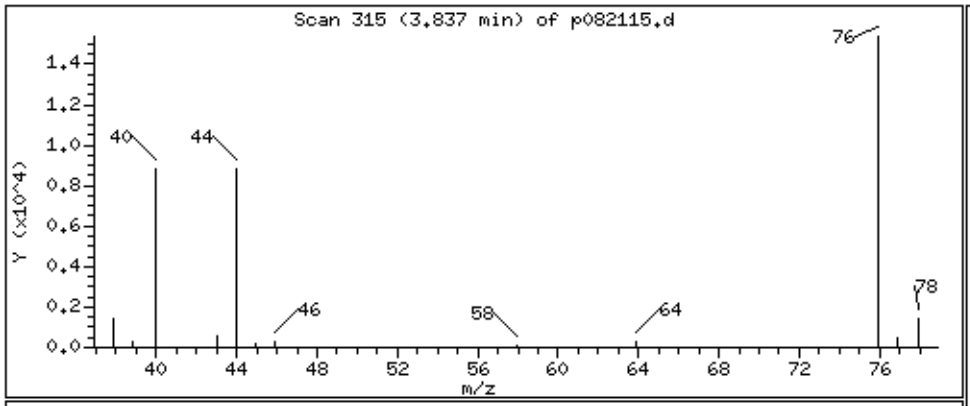
Operator: mb

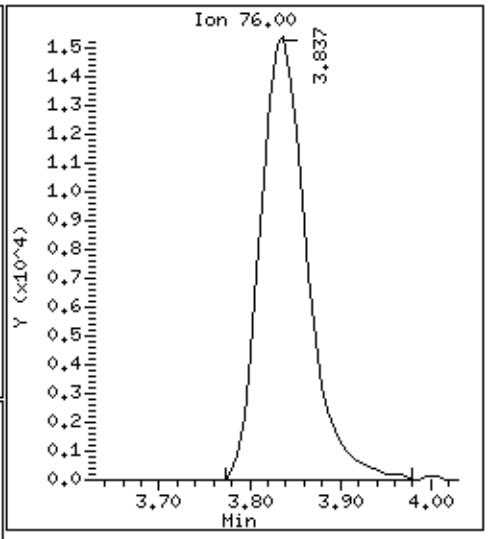
Column phase: RTX-624

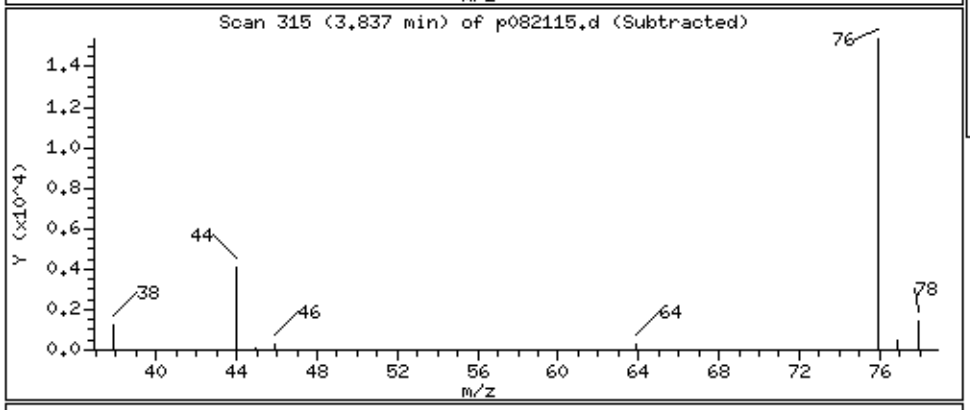
Column diameter: 0.25

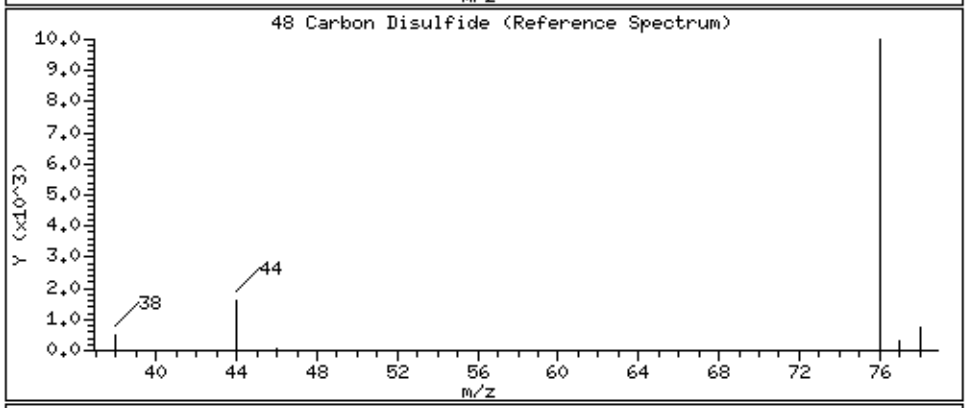
48 Carbon Disulfide

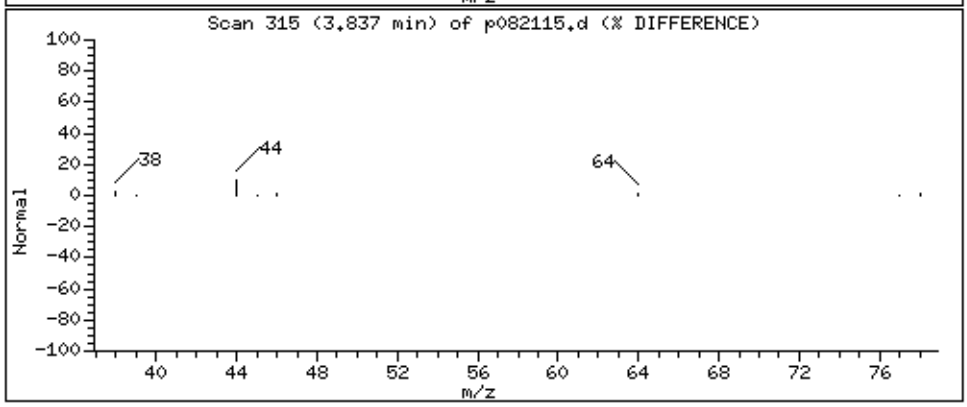
Concentration: 10.220 PPBV











Data File: /chem/msdp.i/21AUG21.b/p082115.d

Date : 21-AUG-2021 18:44

Client ID:

Instrument: msdp.i

Sample Info: 200ml 00246

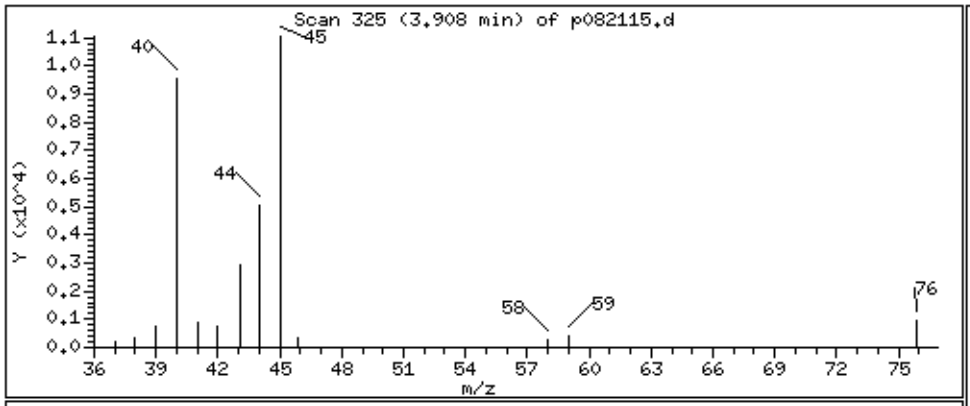
Operator: mb

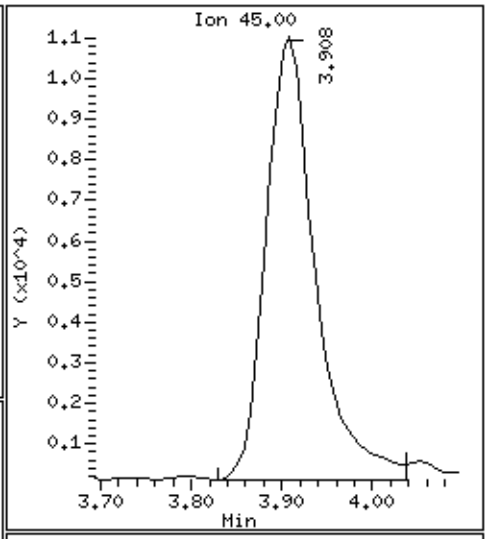
Column phase: RTX-624

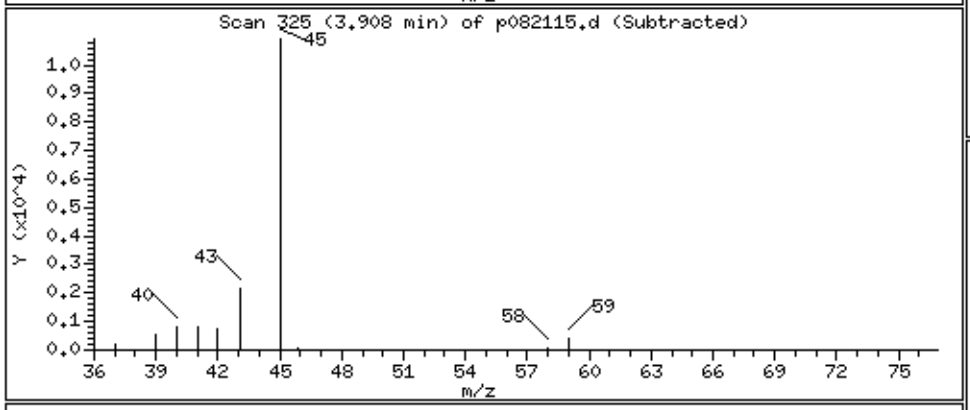
Column diameter: 0.25

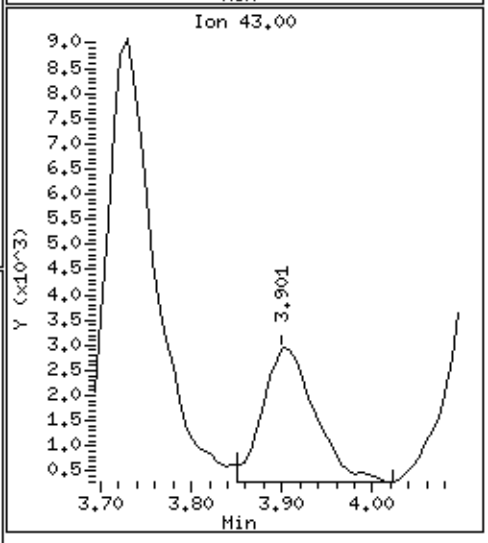
52 2-Propanol

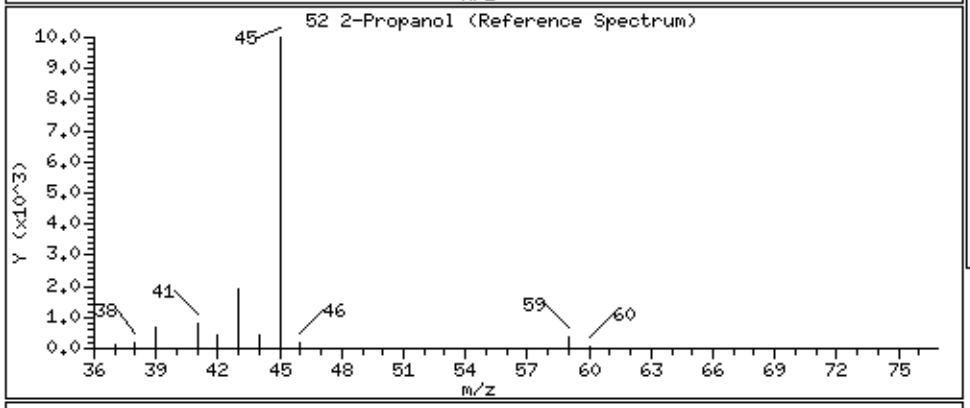
Concentration: 8.040 PPBV

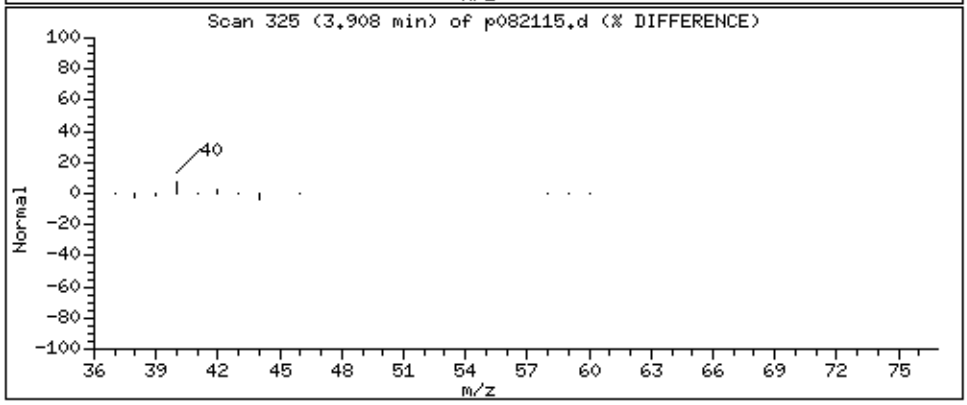












Data File: /chem/msdp.i/21AUG21.b/p082115.d

Date : 21-AUG-2021 18:44

Client ID:

Instrument: msdp.i

Sample Info: 200ml 00246

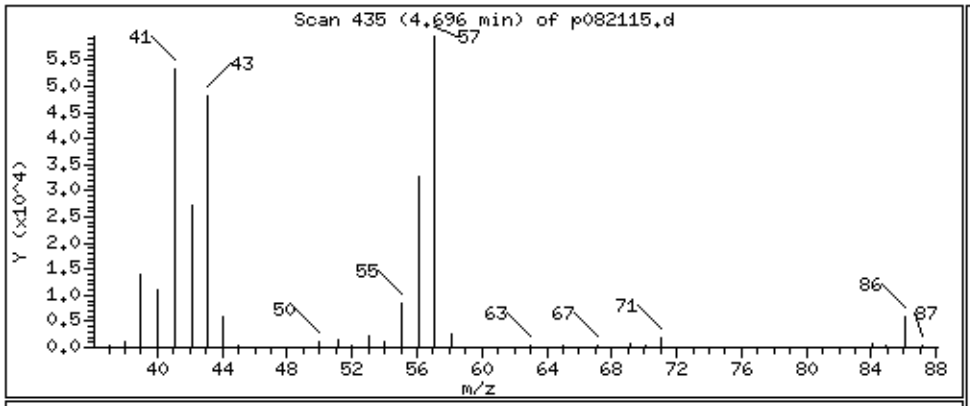
Operator: mb

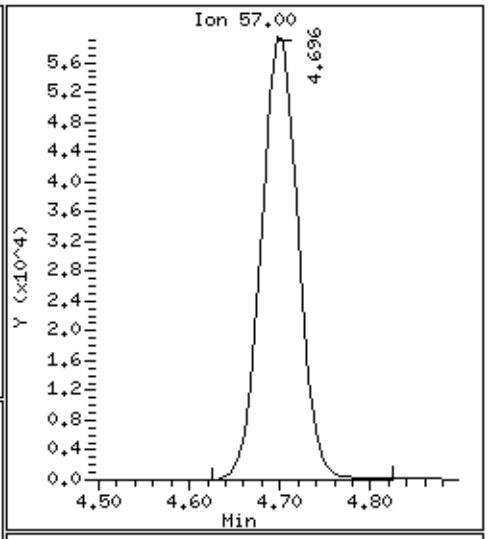
Column phase: RTX-624

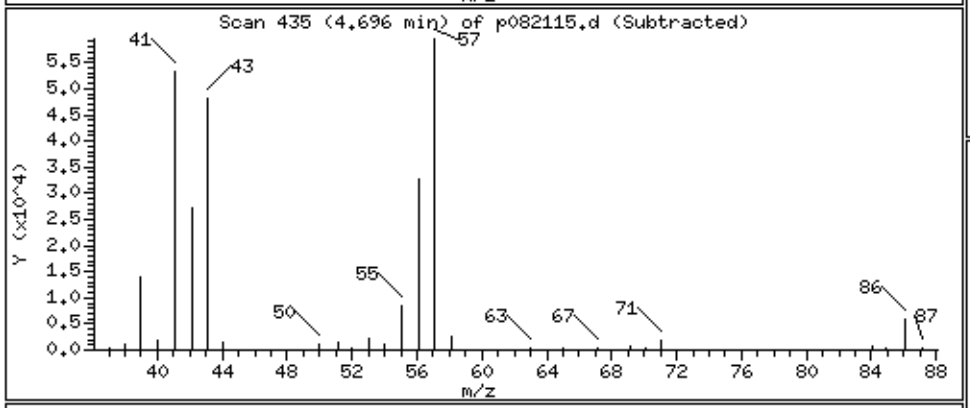
Column diameter: 0.25

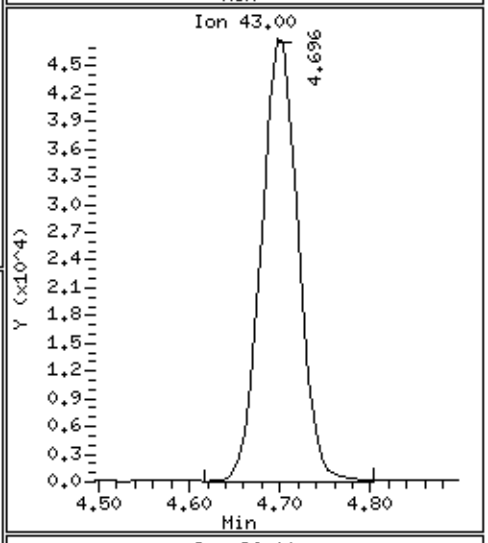
67 Hexane

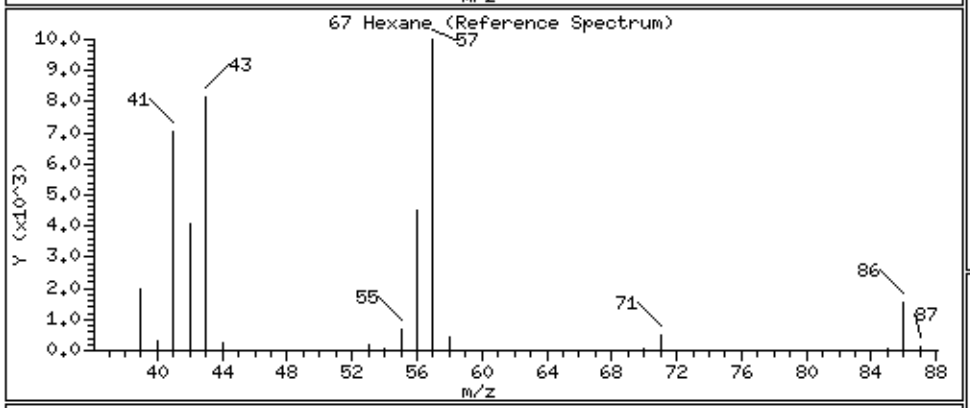
Concentration: 35.213 PPBV

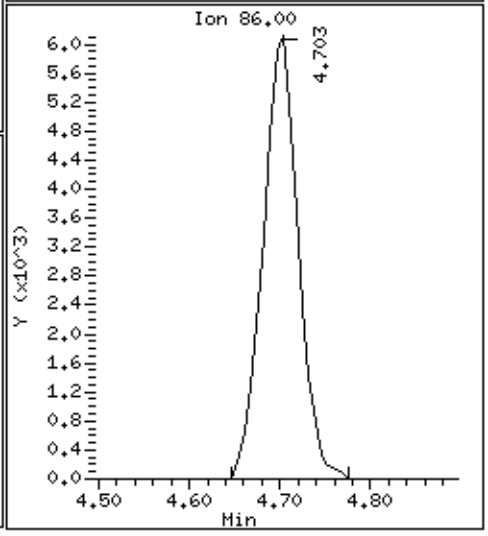


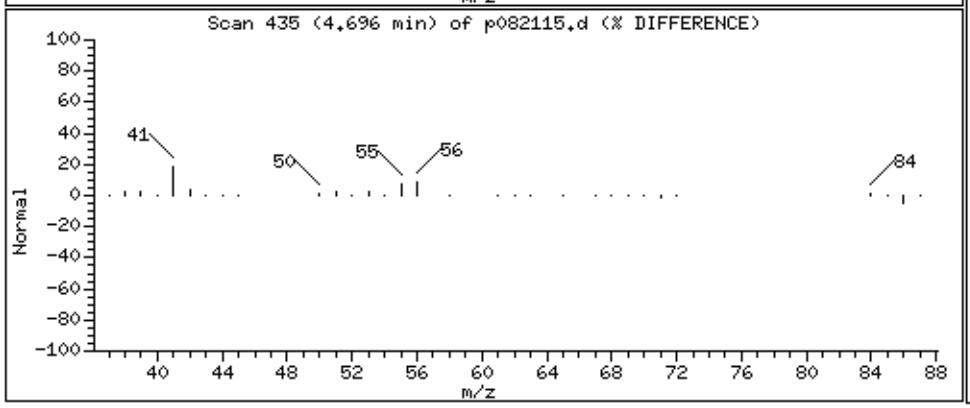












Data File: /chem/msdp.i/21AUG21.b/p082115.d

Date : 21-AUG-2021 18:44

Client ID:

Instrument: msdp.i

Sample Info: 200ml 00246

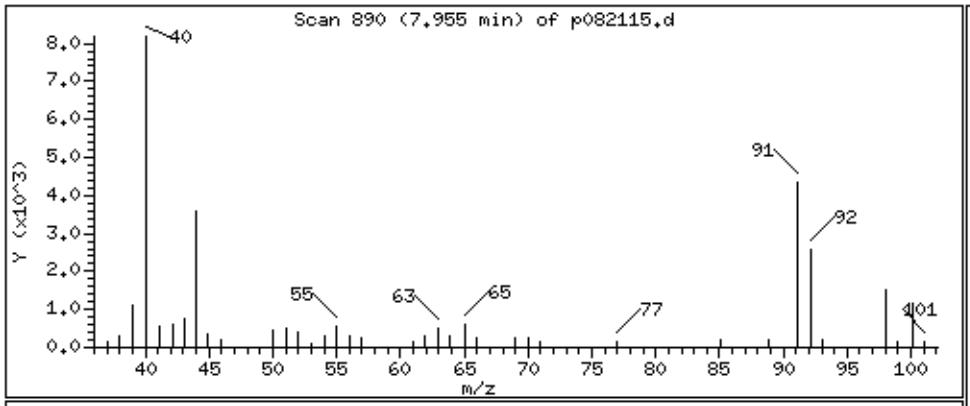
Operator: mb

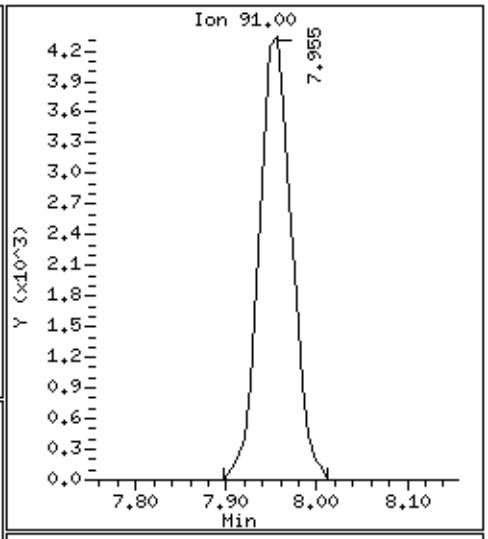
Column phase: RTX-624

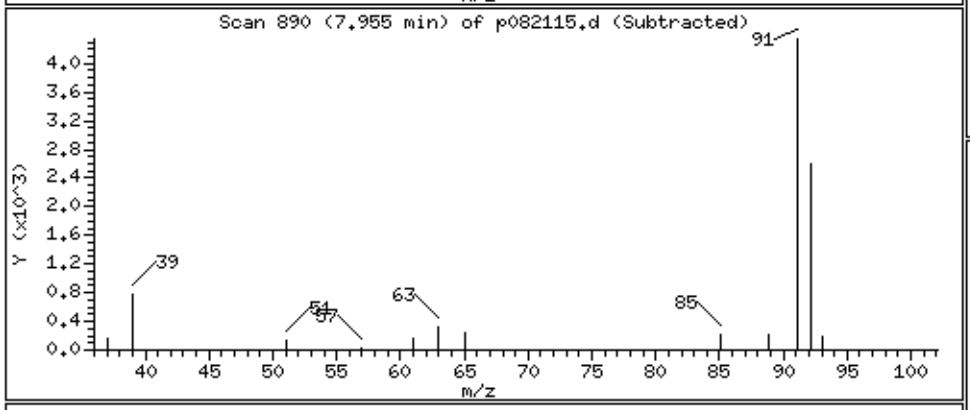
Column diameter: 0.25

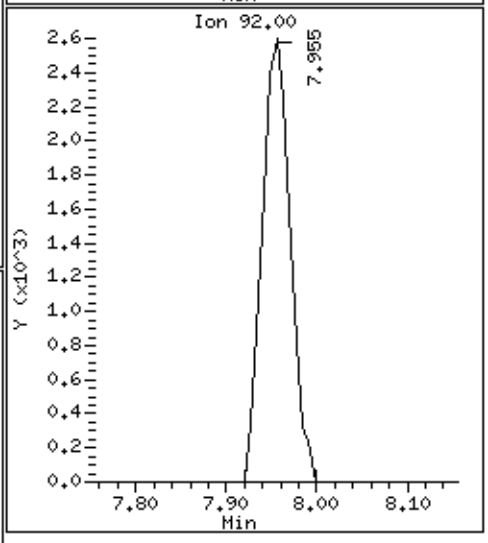
137 Toluene

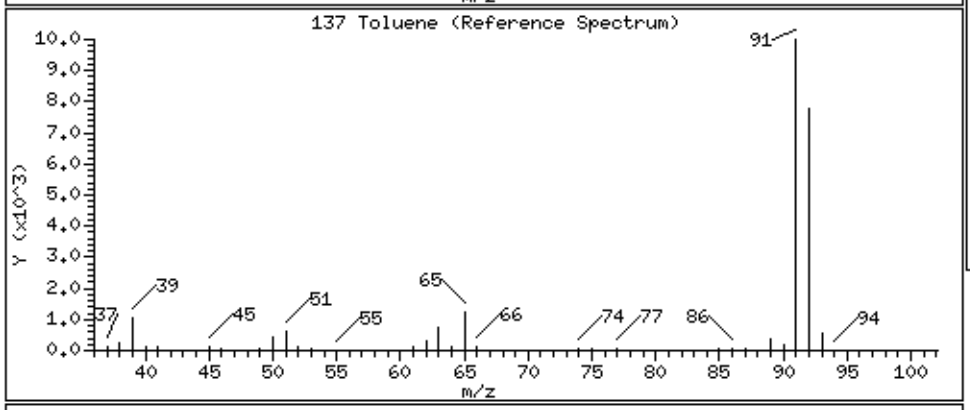
Concentration: 1.382 PPBV

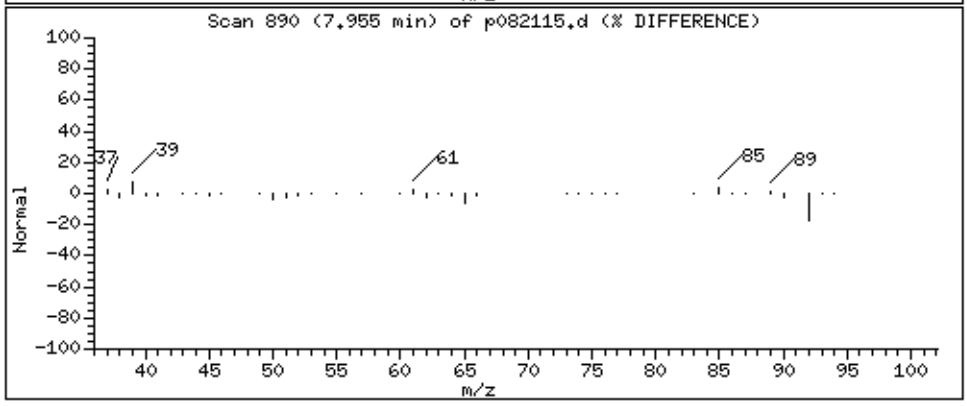












Data File: /chem/msdp.i/21AUG21.b/p082115.d

Date : 21-AUG-2021 18:44

Client ID:

Instrument: msdp.i

Sample Info: 200ml 00246

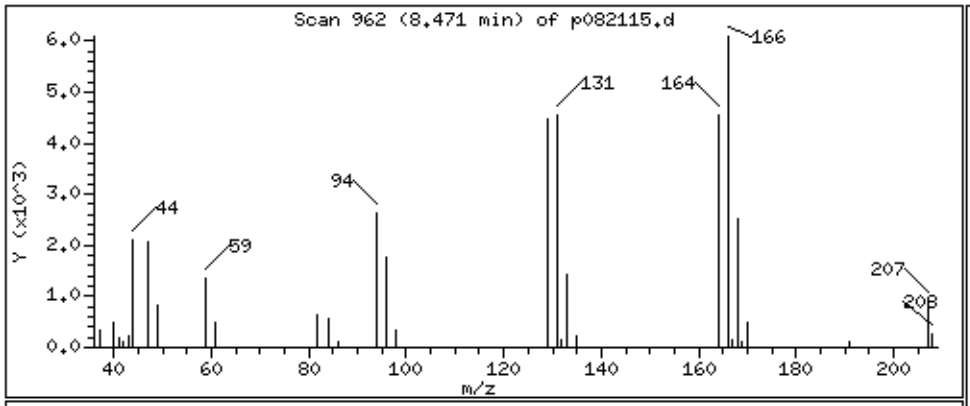
Operator: mb

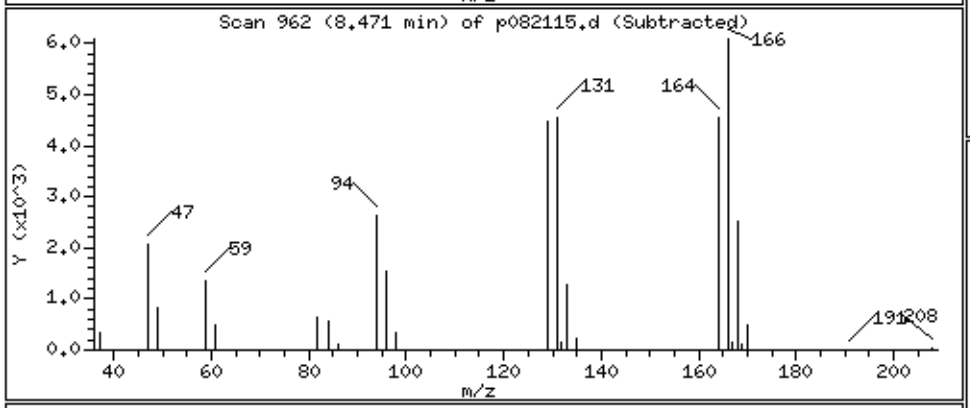
Column phase: RTX-624

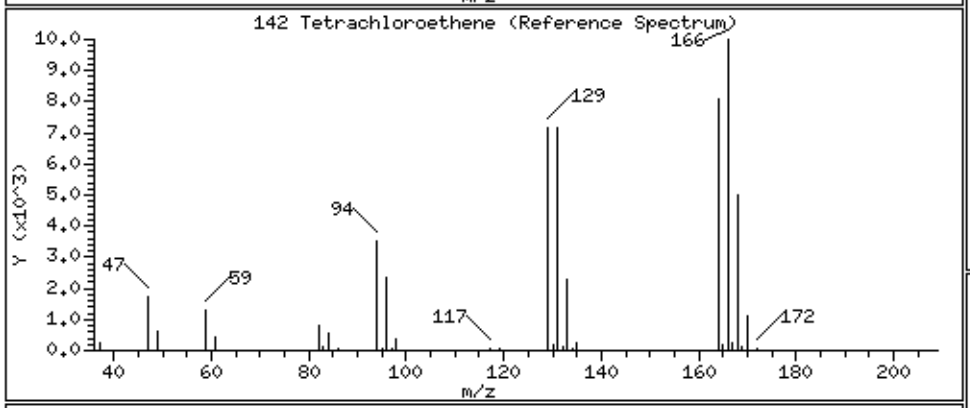
Column diameter: 0.25

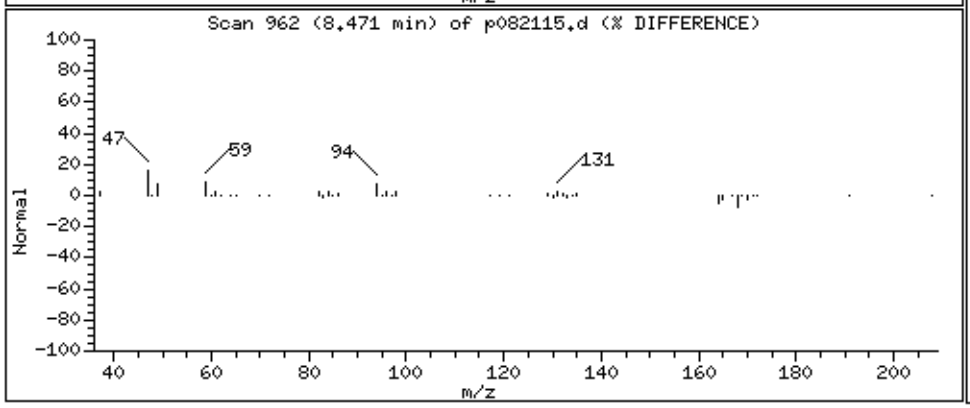
142 Tetrachloroethene

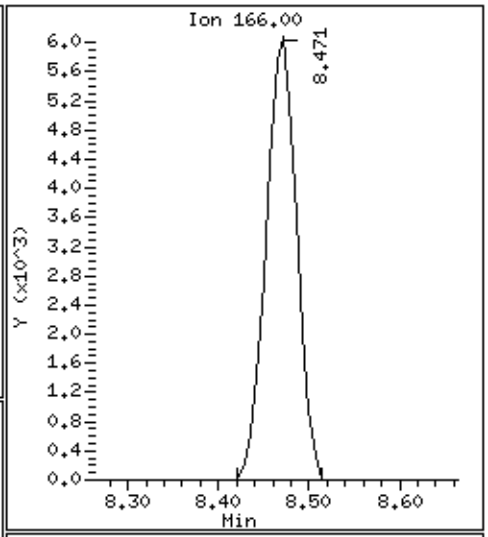
Concentration: 3.454 PPBV

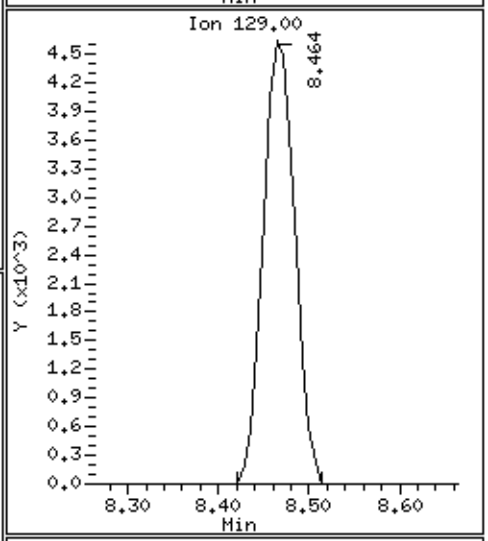


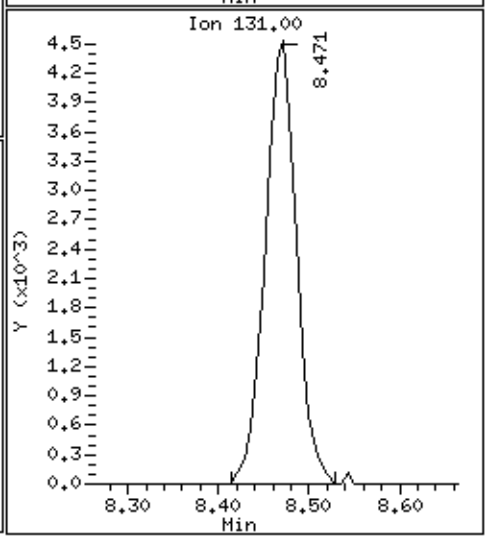












Data File: /chem/msdp.i/21AUG21.b/p082115.d

Date : 21-AUG-2021 18:44

Client ID:

Instrument: msdp.i

Sample Info: 200ml 00246

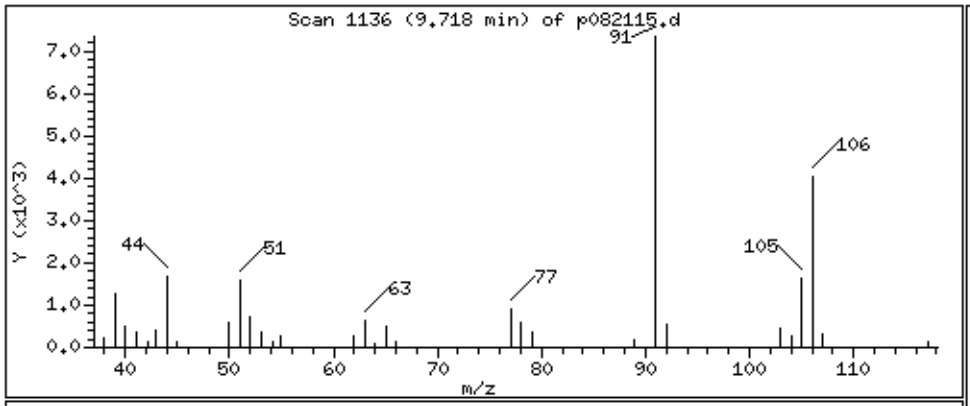
Operator: mb

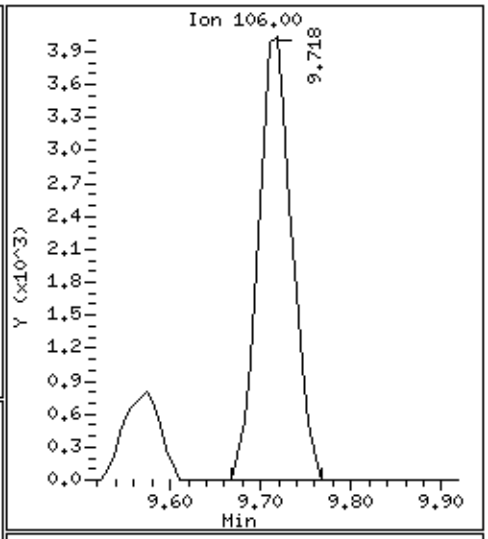
Column phase: RTX-624

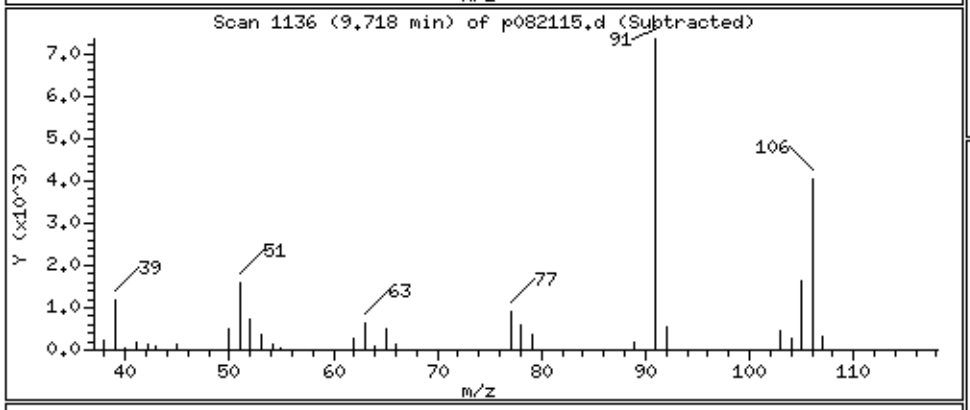
Column diameter: 0.25

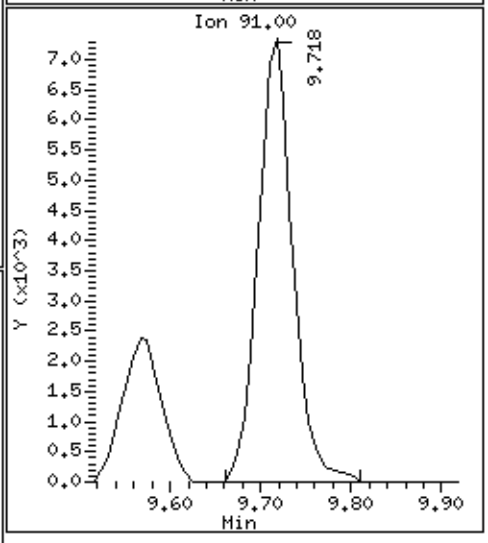
158 m,p-Xylene

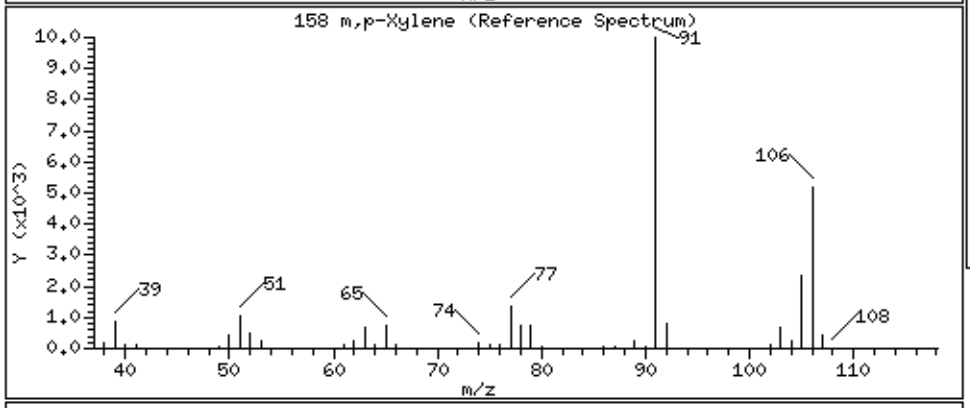
Concentration: 2.195 PPBV

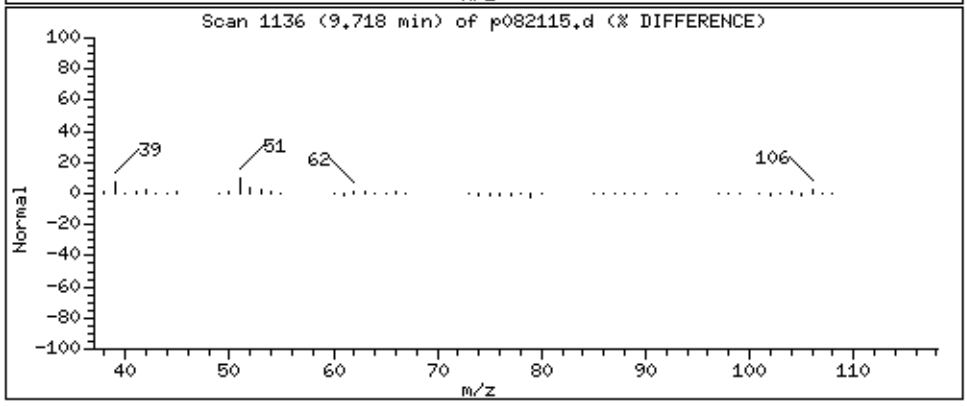












QC Results and Raw Data

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Client Sample ID: Lab Blank

Lab ID#: 2108390-27A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p082007**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/20/21 02:17 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1,2-Tetrachloroethane	2.0	Not Detected	14	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
1,1-Difluoroethane	2.0	Not Detected	5.4	Not Detected
1,2,3-Trichloropropane	2.0	Not Detected	12	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2-Dibromo-3-chloropropane	2.0	Not Detected	19	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	Not Detected	5.9	Not Detected
2-Hexanone	2.0	Not Detected	8.2	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Acetone	5.0	Not Detected	12	Not Detected
Acrolein	2.0	Not Detected	4.6	Not Detected
Acrylonitrile	2.0	Not Detected	4.3	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Carbon Disulfide	2.0	Not Detected	6.2	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Chloroethane	2.0	Not Detected	5.3	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
Chloromethane	5.0	Not Detected	10	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected

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Client Sample ID: Lab Blank

Lab ID#: 2108390-27A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p082007**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/20/21 02:17 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
Dibromomethane	2.0	Not Detected	14	Not Detected
Ethanol	5.0	Not Detected	9.4	Not Detected
Ethyl Acetate	2.0	Not Detected	7.2	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
Ethyl-tert-butyl ether	2.0	Not Detected	8.4	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Freon 134a	2.0	Not Detected	8.3	Not Detected
Heptane	0.50	Not Detected	2.0	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected
Hexachloroethane	2.0	Not Detected	19	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
Iodomethane	5.0	Not Detected	29	Not Detected
Isopropyl ether	2.0	Not Detected	8.4	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
Methyl tert-butyl ether	2.0	Not Detected	7.2	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
Naphthalene	1.0	Not Detected	5.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Propylbenzene	0.50	Not Detected	2.4	Not Detected
Propylene	2.0	Not Detected	3.4	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
tert-Amyl methyl ether	2.0	Not Detected	8.4	Not Detected
tert-Butyl alcohol	2.0	Not Detected	6.1	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
TPH ref. to Gasoline (MW=100)	50	Not Detected	200	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
Vinyl Acetate	2.0	Not Detected	7.0	Not Detected
Vinyl Bromide	2.0	Not Detected	8.7	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected

Container Type: NA - Not Applicable

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Client Sample ID: Lab Blank

Lab ID#: 2108390-27A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p082007**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/20/21 02:17 PM**	

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	110	70-130
4-Bromofluorobenzene	102	70-130

US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/20AUG21.b/p082007.d
Lab Smp Id: Lab Blank Client Smp ID: Lab Blank
Inj Date : 20-AUG-2021 14:17
Operator : mjb Inst ID: msdp.i
Smp Info : 200ml 35157
Misc Info : humid
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/20AUG21.b/p21q0519a.m
Meth Date : 20-Aug-2021 12:59 p5fl Quant Type: ISTD
Cal Date : 19-MAY-2021 19:45 Cal File: p051915.d
Als bottle: 11 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AEC25677.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 90 Bromochloromethane					CAS #: 74-97-5		
5.785	5.785 (1.000)	130	114524	25.0000		80.00- 120.00	100.00
5.785	5.785 (1.000)	128	90793			48.23- 108.23	79.28
5.785	5.778 (1.000)	49	255107			150.57- 210.57	222.75
* 108 1,4-Difluorobenzene					CAS #: 540-36-3		
6.666	6.659 (1.000)	114	416989	25.0000		80.00- 120.00	100.00
6.666	6.659 (1.000)	88	59945			0.00- 45.71	14.38
* 153 Chlorobenzene-d5					CAS #: 3114-55-4		
9.460	9.460 (1.000)	117	428531	25.0000		80.00- 120.00	100.00
9.460	9.460 (1.000)	82	216461			23.78- 83.78	50.51
$ 104 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
6.315	6.315 (1.092)	65	173250	27.4118	27.412	80.00- 120.00	100.00
6.315	6.315 (1.092)	67	83634			27.21- 87.21	48.27
$ 134 Toluene-d8					CAS #: 2037-26-5		
7.891	7.891 (1.184)	98	461522	25.4882	25.488	80.00- 120.00	100.00
7.891	7.891 (1.184)	70	48220			0.00- 40.44	10.45

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 134 Toluene-d8 (continued)							
7.891	7.891 (1.184)	100	296889			34.95- 94.95	64.33
$ 170 4-Bromofluorobenzene					CAS #: 460-00-4		
10.921	10.921 (1.154)	174	280167	25.4600	25.460	80.00- 120.00	100.00
10.921	10.914 (1.154)	95	320240			95.92- 155.92	114.30
10.921	10.921 (1.154)	176	267495			66.89- 126.89	95.48

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p082007.d
Lab Smp Id: Lab Blank
Analysis Type: VOA
Quant Type: ISTD
Operator: mjb
Method File: /chem/msdp.i/20AUG21.b/p21q0519a.m
Misc Info: humid

Calibration Date: 20-AUG-2021
Calibration Time: 11:13
Client Smp ID: Lab Blank
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	109375	65625	153125	114524	4.71
108 1,4-Difluorobenze	406799	244079	569519	416989	2.50
153 Chlorobenzene-d5	400841	240505	561177	428531	6.91

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.79	5.46	6.12	5.79	-0.00
108 1,4-Difluorobenze	6.66	6.33	6.99	6.67	0.11
153 Chlorobenzene-d5	9.46	9.13	9.79	9.46	-0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 20-Aug-2021 14:38

US32TAR1

RECOVERY REPORT

Client Name: Client SDG: 20AUG21
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: Lab Blank Client Smp ID: Lab Blank
Level: LOW Operator: mjb
Data Type: MS DATA SampleType: BLANK
SpikeList File: AT20_new.spk Quant Type: ISTD
Sublist File: AEC25677.sub
Method File: /chem/msdp.i/20AUG21.b/p21q0519a.m
Misc Info: humid

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 104 1,2-Dichloroethan	25.000	27.412	109.65	70-130
$ 134 Toluene-d8	25.000	25.488	101.95	70-130
$ 170 4-Bromofluorobenz	25.000	25.460	101.84	70-130

Data File: /chem/msdp.i/20AUG21.b/p082007.d

Date : 20-AUG-2021 14:17

Client ID: Lab Blank

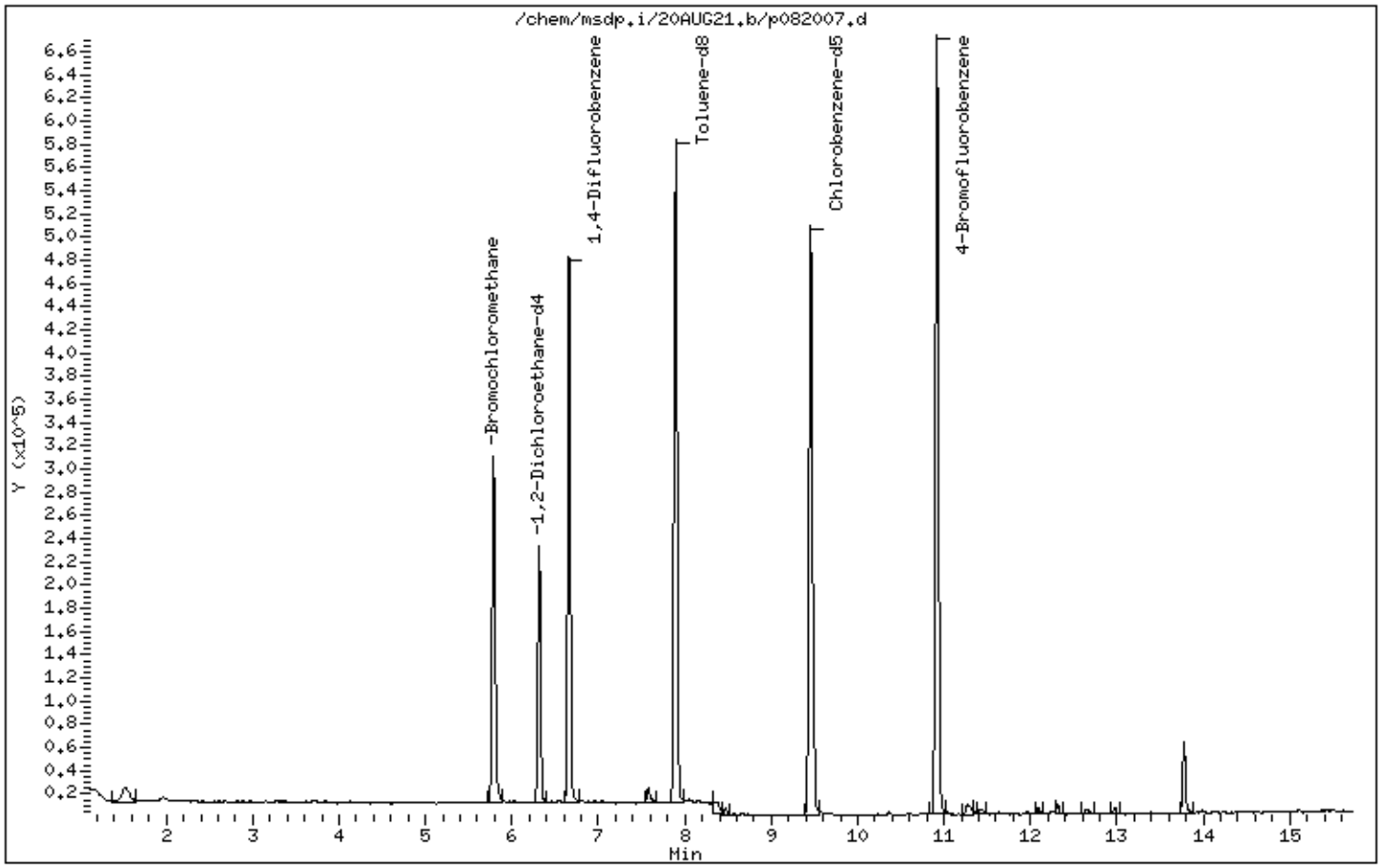
Instrument: msdp.i

Sample Info: 200ml 35157

Operator: mjb

Column phase: RTX-624

Column diameter: 0.25



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Client Sample ID: Lab Blank

Lab ID#: 2108390-27B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p082108**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/21/21 01:48 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1,2-Tetrachloroethane	2.0	Not Detected	14	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
1,1-Difluoroethane	2.0	Not Detected	5.4	Not Detected
1,2,3-Trichloropropane	2.0	Not Detected	12	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2-Dibromo-3-chloropropane	2.0	Not Detected	19	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	Not Detected	5.9	Not Detected
2-Hexanone	2.0	Not Detected	8.2	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Acetone	5.0	Not Detected	12	Not Detected
Acrolein	2.0	Not Detected	4.6	Not Detected
Acrylonitrile	2.0	Not Detected	4.3	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Carbon Disulfide	2.0	Not Detected	6.2	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Chloroethane	2.0	Not Detected	5.3	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
Chloromethane	5.0	Not Detected	10	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected

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Client Sample ID: Lab Blank

Lab ID#: 2108390-27B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p082108**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/21/21 01:48 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
Dibromomethane	2.0	Not Detected	14	Not Detected
Ethanol	5.0	Not Detected	9.4	Not Detected
Ethyl Acetate	2.0	Not Detected	7.2	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
Ethyl-tert-butyl ether	2.0	Not Detected	8.4	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Freon 134a	2.0	Not Detected	8.3	Not Detected
Heptane	0.50	Not Detected	2.0	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected
Hexachloroethane	2.0	Not Detected	19	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
Iodomethane	5.0	Not Detected	29	Not Detected
Isopropyl ether	2.0	Not Detected	8.4	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
Methyl tert-butyl ether	2.0	Not Detected	7.2	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
Naphthalene	1.0	Not Detected	5.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Propylbenzene	0.50	Not Detected	2.4	Not Detected
Propylene	2.0	Not Detected	3.4	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
tert-Amyl methyl ether	2.0	Not Detected	8.4	Not Detected
tert-Butyl alcohol	2.0	Not Detected	6.1	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
TPH ref. to Gasoline (MW=100)	50	Not Detected	200	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
Vinyl Acetate	2.0	Not Detected	7.0	Not Detected
Vinyl Bromide	2.0	Not Detected	8.7	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected

Container Type: NA - Not Applicable

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Client Sample ID: Lab Blank

Lab ID#: 2108390-27B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p082108**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/21/21 01:48 PM**	

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	109	70-130
4-Bromofluorobenzene	102	70-130

US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem1/msdp.i/21AUG21.b/p082108.d
Lab Smp Id: Lab Blank Client Smp ID: Lab Blank
Inj Date : 21-AUG-2021 13:48
Operator : mb Inst ID: msdp.i
Smp Info : 200ml 35157
Misc Info : humid
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/21AUG21.b/p21q0519a.m
Meth Date : 21-Aug-2021 13:27 x8uy Quant Type: ISTD
Cal Date : 19-MAY-2021 19:45 Cal File: p051915.d
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT20_new.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE		(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 90 Bromochloromethane						CAS #: 74-97-5		
5.785	5.785 (1.000)	130	111071	25.0000			80.00- 120.00	100.00
5.785	5.785 (1.000)	128	83454				48.23- 108.23	75.14
5.785	5.778 (1.000)	49	239399				150.57- 210.57	215.54
* 108 1,4-Difluorobenzene						CAS #: 540-36-3		
6.666	6.666 (1.000)	114	393522	25.0000			80.00- 120.00	100.00
6.659	6.659 (1.000)	88	57234				0.00- 45.71	14.54
* 153 Chlorobenzene-d5						CAS #: 3114-55-4		
9.460	9.460 (1.000)	117	398805	25.0000			80.00- 120.00	100.00
9.460	9.460 (1.000)	82	205510				23.78- 83.78	51.53
$ 104 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
6.315	6.315 (1.092)	65	166558	27.1723	27.172		80.00- 120.00	100.00
6.315	6.315 (1.092)	67	78197				27.21- 87.21	46.95
$ 134 Toluene-d8						CAS #: 2037-26-5		
7.891	7.891 (1.184)	98	431762	25.2666	25.266		80.00- 120.00	100.00
7.891	7.891 (1.184)	70	46703				0.00- 40.44	10.82

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 134 Toluene-d8 (continued)							
7.891	7.891 (1.184)	100	275971			34.95- 94.95	63.92
$ 170 4-Bromofluorobenzene					CAS #: 460-00-4		
10.921	10.921 (1.154)	174	261424	25.5275	25.528	80.00- 120.00	100.00
10.921	10.914 (1.154)	95	300612			95.92- 155.92	114.99
10.921	10.921 (1.154)	176	250670			66.89- 126.89	95.89

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p082108.d
Lab Smp Id: Lab Blank
Analysis Type: VOA
Quant Type: ISTD
Operator: mb
Method File: /chem/msdp.i/21AUG21.b/p21q0519a.m
Misc Info: humid

Calibration Date: 21-AUG-2021
Calibration Time: 09:37
Client Smp ID: Lab Blank
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	102894	61736	144052	111071	7.95
108 1,4-Difluorobenze	387356	232414	542298	393522	1.59
153 Chlorobenzene-d5	386134	231680	540588	398805	3.28

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.79	5.46	6.12	5.79	-0.00
108 1,4-Difluorobenze	6.67	6.34	7.00	6.67	-0.00
153 Chlorobenzene-d5	9.46	9.13	9.79	9.46	-0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 21-Aug-2021 14:22

US32TAR1

RECOVERY REPORT

Client Name: Client SDG: 21AUG21
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: Lab Blank Client Smp ID: Lab Blank
Level: LOW Operator: mb
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT20_new.spk Quant Type: ISTD
Sublist File: AT20_new.sub
Method File: /chem/msdp.i/21AUG21.b/p21q0519a.m
Misc Info: humid

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 104 1,2-Dichloroethan	25.000	27.172	108.69	70-130
$ 134 Toluene-d8	25.000	25.266	101.07	70-130
$ 170 4-Bromofluorobenz	25.000	25.528	102.11	70-130

Data File: /chem1/msdp.i/21AUG21.b/p082108.d

Date : 21-AUG-2021 13:48

Client ID: Lab Blank

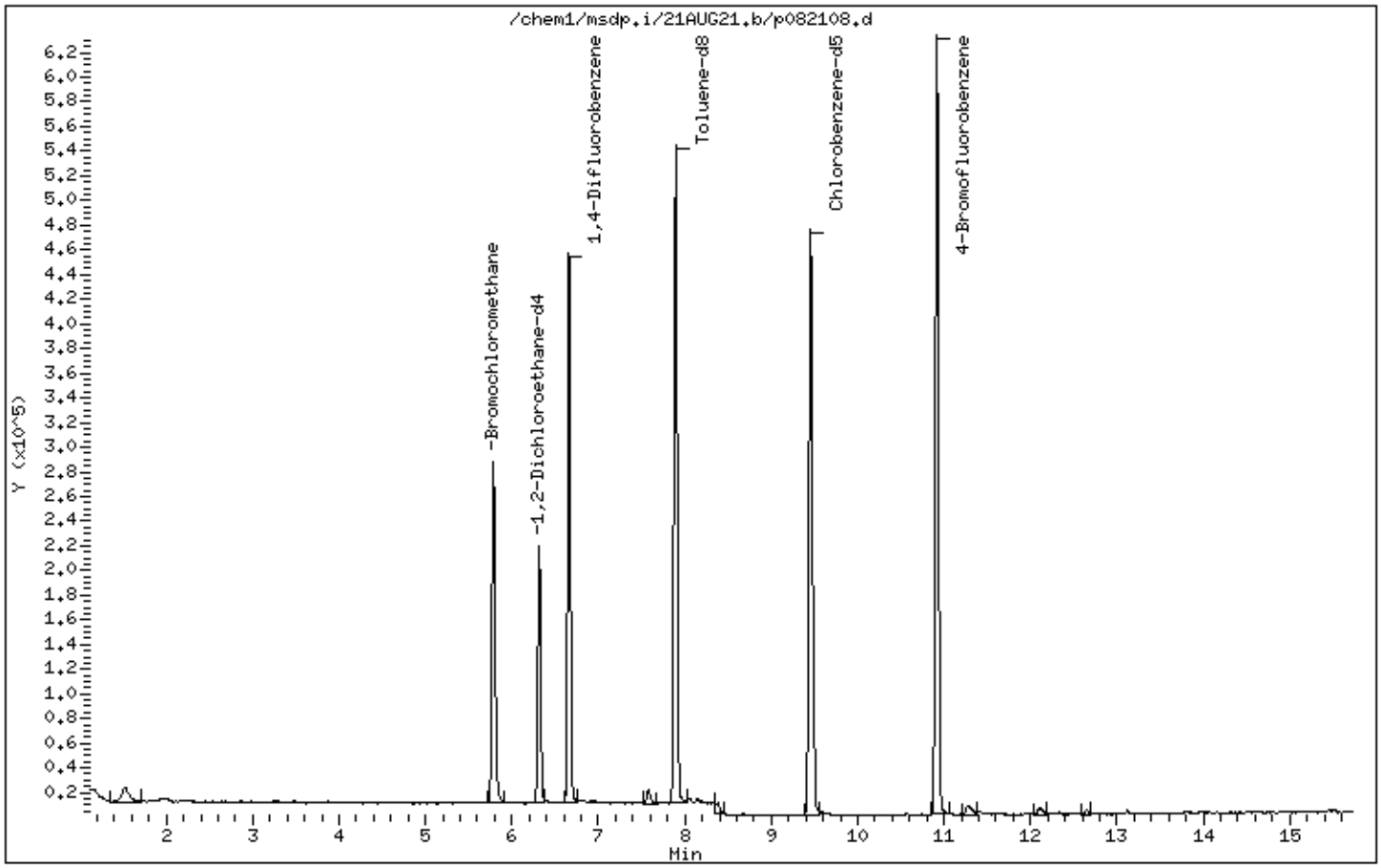
Instrument: msdp.i

Sample Info: 200ml 35157

Operator: mb

Column phase: RTX-624

Column diameter: 0.25



LEVEL-IV VALIDATABLE

MODIFIED EPA METHOD TO-15

SURROGATE RECOVERY FORM

Lab Name : Eurofins Air Toxics, LLC _____ SDG No. :2108390

	CLIENT SAMPLE NO.	SURROGATE % RECOVERY						
		1,2-Dichloroethane-d4	#	Toluene-d8	#	4-Bromofluorobenzene	#	TOTAL OUT
1	SG-VW35A-03	113		100		103		
2	SG-VW44A-03	110		100		104		
3	SG-VW17A-03	110		100		104		
4	SG-VW58A-02	111		100		103		
5	SG-VW58B-02	110		102		104		
6	SG-VW60B-02	109		101		106		
7	SG-VW60A-02	108		100		107		
8	SG-VW61A-02	106		100		104		
9	SG-VW63A-02	111		103		106		
10	SG-VW63B-02	109		100		106		
11	SG-VW63B-03	110		102		103		
12	SG-VW55A-03	114		101		104		
13	SG-VW20A-03	108		101		105		
14	SG-VW21A-04	110		102		104		
15	SG-VW24A-05	110		100		104		
16	SG-VW29A-03	110		101		103		
17	SG-VW64A-02	108		99		104		
18	SG-VW59A-02	109		101		102		
19	SG-VW59B-02	110		102		102		
20	SSV-FSS01-02	112		101		109		
21	SSV-FSS01-03	111		101		110		
22	SSV-FSS02-02	109		101		105		
23	SSV-GSS01-02	111		103		108		
24	SSV-GSS02-02	111		101		111		
25	SSV-HMBSS01-02	111		101		105		
26	SSV-JSS01-02	110		101		111		
27	Lab Blank	110		102		102		
28	Lab Blank	109		101		102		
29	CCV	109		100		112		
30	CCV	115		101		111		
31	LCS	111		97		111		
32	LCSD	108		101		110		
33	LCS	108		100		112		
34	LCSD	108		100		110		

Surrogate Recovery Limits

1,2-Dichloroethane-d4	70 - 130
Toluene-d8	70 - 130

4-Bromofluorobenzene	70 - 130

* Designates Values Outside of QC limits

LEVEL-IV VALIDATABLE

MODIFIED EPA METHOD TO-15

INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name : Eurofins Air Toxics, LLC File ID: p082002.d Date : 2021-08-20 11:13:00 SDG No. : 2108390

		Bromochloromethane	RT	1,4-Difluorobenzene	RT	Chlorobenzene-d5	RT
	24-HOUR CCV	109375	5.79	406799	6.66	400841	9.46
	UPPER LIMIT	153125	6.12	569518	6.99	561177	9.79
	LOWER LIMIT	65625	5.46	244079	6.33	240504	9.13
	CLIENT SAMPLE NO.						
1	SG-VW35A-03	111350	5.79	427337	6.67	424317	9.46
2	SG-VW44A-03	112788	5.79	412871	6.67	418553	9.46
3	SG-VW17A-03	109467	5.79	409276	6.67	409380	9.46
4	SG-VW58A-02	106991	5.79	379824	6.67	391102	9.46
5	SG-VW58B-02	107098	5.79	386891	6.67	405299	9.46
6	SG-VW60B-02	108335	5.79	385237	6.67	403350	9.46
7	SG-VW60A-02	108206	5.79	388212	6.67	397526	9.46
8	SG-VW61A-02	106226	5.79	378182	6.67	387252	9.46
9	SG-VW63A-02	105799	5.79	377980	6.67	388347	9.46
10	SG-VW63B-02	107394	5.79	384059	6.67	393947	9.46
11	SG-VW63B-03	106163	5.79	380167	6.66	392144	9.46
12	SG-VW55A-03	104070	5.79	381466	6.67	390633	9.46
13	SG-VW20A-03	108090	5.79	377300	6.67	386050	9.46
14	SG-VW21A-04	108221	5.79	394335	6.66	398950	9.46
15	SG-VW24A-05	104811	5.79	374966	6.67	389377	9.46
16	SG-VW29A-03	105089	5.79	372375	6.67	388321	9.46
17	SG-VW64A-02	106780	5.79	371484	6.66	386757	9.46
18	SG-VW59A-02	104790	5.79	369112	6.67	385745	9.46
19	SG-VW59B-02	104316	5.79	370394	6.67	382215	9.46
20	Lab Blank	114524	5.79	416989	6.67	428531	9.46
21	CCV	109375	5.79	406799	6.66	400841	9.46
22	LCS	115405	5.78	421276	6.66	408672	9.46
23	LCSD	121146	5.78	435127	6.67	424998	9.46

Area Upper Limit = +40% of intenral standard area

Area Lower Limit = -40% of intenral standard area

RT Upper Limit = +0.33 minutes of internal standard RT

RT Lower Limit = -0.33 minutes of internal standard RT

* Designates Values Outside of QC limits

LEVEL-IV VALIDATABLE

MODIFIED EPA METHOD TO-15

INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name : Eurofins Air Toxics, LLC File ID: p082102.d Date : 2021-08-21 09:37:00 SDG No. : 2108390

		Bromochloromethane	RT	1,4-Difluorobenzene	RT	Chlorobenzene-d5	RT
	24-HOUR CCV	102894	5.79	387356	6.67	386134	9.46
	UPPER LIMIT	144051	6.12	542298	7.00	540587	9.79
	LOWER LIMIT	61736	5.46	232413	6.34	231680	9.13
	CLIENT SAMPLE NO.						
1	SSV-FSS01-02	103399	5.79	374486	6.67	388908	9.46
2	SSV-FSS01-03	105400	5.79	383169	6.66	393136	9.46
3	SSV-FSS02-02	105025	5.79	376574	6.67	388106	9.46
4	SSV-GSS01-02	102800	5.79	369160	6.67	382227	9.46
5	SSV-GSS02-02	102715	5.79	369444	6.67	386768	9.46
6	SSV-HMBSS01-02	101967	5.79	365558	6.67	380886	9.46
7	SSV-JSS01-02	102837	5.79	363284	6.67	383177	9.46
8	Lab Blank	111071	5.79	393522	6.67	398805	9.46
9	CCV	102894	5.79	387356	6.67	386134	9.46
10	LCS	113059	5.78	401051	6.66	391175	9.46
11	LCSD	116975	5.78	422374	6.67	408689	9.46

Area Upper Limit = +40% of intenral standard area

Area Lower Limit = -40% of intenral standard area

RT Upper Limit = +0.33 minutes of internal standard RT

RT Lower Limit = -0.33 minutes of internal standard RT

* Designates Values Outside of QC limits

SAMPLE RESULTS/SAMPLE RESULTS DUPLICATE

Lab File ID: p082003.d & p082004.d

Lab Sample ID: 29A & 29AA

CAS Number	Compound	Original Amount	Duplicate Amount	RPD	Result Less Than 5X RL
71-55-6	1,1,1-Trichloroethane	104	100	3.9	
79-34-5	1,1,2,2-Tetrachloroethane	102	102	0	
79-00-5	1,1,2-Trichloroethane	103	102	0.98	
75-34-3	1,1-Dichloroethane	95	95	0	
75-35-4	1,1-Dichloroethene	86	87	1.2	
120-82-1	1,2,4-Trichlorobenzene	117	130	11	
95-63-6	1,2,4-Trimethylbenzene	106	106	0	
106-93-4	1,2-Dibromoethane (EDB)	107	106	0.94	
95-50-1	1,2-Dichlorobenzene	111	110	0.90	
107-06-2	1,2-Dichloroethane	121	118	2.5	
78-87-5	1,2-Dichloropropane	100	98	2.0	
108-67-8	1,3,5-Trimethylbenzene	105	106	0.95	
106-99-0	1,3-Butadiene	109	110	0.91	
541-73-1	1,3-Dichlorobenzene	112	111	0.90	
106-46-7	1,4-Dichlorobenzene	112	111	0.90	
123-91-1	1,4-Dioxane	92	94	2.2	
540-84-1	2,2,4-Trimethylpentane	100	98	2.0	
78-93-3	2-Butanone (Methyl Ethyl Ketone)	81	82	1.2	
591-78-6	2-Hexanone	108	108	0	
67-63-0	2-Propanol	111	108	2.7	
107-05-1	3-Chloropropene	82	83	1.2	
622-96-8	4-Ethyltoluene	105	105	0	
108-10-1	4-Methyl-2-pentanone	104	102	1.9	
67-64-1	Acetone	96	94	2.1	
100-44-7	alpha-Chlorotoluene	106	106	0	
71-43-2	Benzene	94	93	1.1	
75-27-4	Bromodichloromethane	110	109	0.91	
75-25-2	Bromoform	114	114	0	
74-83-9	Bromomethane	84	80	4.9	
75-15-0	Carbon Disulfide	84	82	2.4	
56-23-5	Carbon Tetrachloride	116	112	3.5	
108-90-7	Chlorobenzene	102	101	0.99	
75-00-3	Chloroethane	86	85	1.2	
67-66-3	Chloroform	101	100	1.00	
74-87-3	Chloromethane	123	119	3.3	
156-59-2	cis-1,2-Dichloroethene	94	90	4.3	

10061-01-5	cis-1,3-Dichloropropene	97	97	0
98-82-8	Cumene	99	99	0
110-82-7	Cyclohexane	86	86	0
124-48-1	Dibromochloromethane	113	112	0.89
64-17-5	Ethanol	90	86	4.5
100-41-4	Ethyl Benzene	100	100	0
75-69-4	Freon 11	109	106	2.8
76-13-1	Freon 113	99	95	4.1
76-14-2	Freon 114	102	100	2.0
75-71-8	Freon 12	106	104	1.9
142-82-5	Heptane	89	90	1.1
87-68-3	Hexachlorobutadiene	125	136	8.4
110-54-3	Hexane	96	94	2.1
108-38-3	m,p-Xylene	100	100	0
1634-04-4	Methyl tert-butyl ether	87	85	2.3
75-09-2	Methylene Chloride	116	112	3.5
91-20-3	Naphthalene	104	116	11
95-47-6	o-Xylene	99	99	0
103-65-1	Propylbenzene	104	104	0
115-07-1	Propylene	106	103	2.9
100-42-5	Styrene	95	97	2.1
127-18-4	Tetrachloroethene	107	107	0
109-99-9	Tetrahydrofuran	111	108	2.7
108-88-3	Toluene	95	96	1.0
156-60-5	trans-1,2-Dichloroethene	88	88	0
10061-02-6	trans-1,3-Dichloropropene	104	103	0.97
79-01-6	Trichloroethene	103	102	0.98
108-05-4	Vinyl Acetate	84	85	1.2
75-01-4	Vinyl Chloride	93	87	6.7

SAMPLE RESULTS/SAMPLE RESULTS DUPLICATE

Lab File ID: p082103.d & p082104.d

Lab Sample ID: 29B & 29BB

CAS Number	Compound	Original Amount	Duplicate Amount	RPD	Result Less Than 5X RL
71-55-6	1,1,1-Trichloroethane	102	102	0	
79-34-5	1,1,2,2-Tetrachloroethane	103	102	0.98	
79-00-5	1,1,2-Trichloroethane	105	104	0.96	
75-34-3	1,1-Dichloroethane	95	94	1.1	
75-35-4	1,1-Dichloroethene	88	88	0	
120-82-1	1,2,4-Trichlorobenzene	118	130	9.7	
95-63-6	1,2,4-Trimethylbenzene	108	107	0.93	
106-93-4	1,2-Dibromoethane (EDB)	108	106	1.9	
95-50-1	1,2-Dichlorobenzene	112	112	0	
107-06-2	1,2-Dichloroethane	122	118	3.3	
78-87-5	1,2-Dichloropropane	99	98	1.0	
108-67-8	1,3,5-Trimethylbenzene	107	106	0.94	
106-99-0	1,3-Butadiene	110	114	3.6	
541-73-1	1,3-Dichlorobenzene	113	113	0	
106-46-7	1,4-Dichlorobenzene	114	113	0.88	
123-91-1	1,4-Dioxane	92	93	1.1	
540-84-1	2,2,4-Trimethylpentane	98	99	1.0	
78-93-3	2-Butanone (Methyl Ethyl Ketone)	82	81	1.2	
591-78-6	2-Hexanone	110	109	0.91	
67-63-0	2-Propanol	110	109	0.91	
107-05-1	3-Chloropropene	80	82	2.5	
622-96-8	4-Ethyltoluene	108	106	1.9	
108-10-1	4-Methyl-2-pentanone	103	104	0.97	
67-64-1	Acetone	96	95	1.0	
100-44-7	alpha-Chlorotoluene	107	108	0.93	
71-43-2	Benzene	95	93	2.1	
75-27-4	Bromodichloromethane	110	110	0	
75-25-2	Bromoform	116	114	1.7	
74-83-9	Bromomethane	82	80	2.5	
75-15-0	Carbon Disulfide	82	82	0	
56-23-5	Carbon Tetrachloride	114	113	0.88	
108-90-7	Chlorobenzene	102	102	0	
75-00-3	Chloroethane	83	84	1.2	
67-66-3	Chloroform	97	98	1.0	
74-87-3	Chloromethane	121	118	2.5	
156-59-2	cis-1,2-Dichloroethene	91	91	0	

10061-01-5	cis-1,3-Dichloropropene	98	97	1.0
98-82-8	Cumene	100	99	1.0
110-82-7	Cyclohexane	84	85	1.2
124-48-1	Dibromochloromethane	115	113	1.8
64-17-5	Ethanol	91	87	4.5
100-41-4	Ethyl Benzene	101	100	1.00
75-69-4	Freon 11	107	108	0.93
76-13-1	Freon 113	95	95	0
76-14-2	Freon 114	99	100	1.0
75-71-8	Freon 12	106	105	0.95
142-82-5	Heptane	90	89	1.1
87-68-3	Hexachlorobutadiene	126	137	8.4
110-54-3	Hexane	95	94	1.1
108-38-3	m,p-Xylene	101	100	1.00
1634-04-4	Methyl tert-butyl ether	85	85	0
75-09-2	Methylene Chloride	115	113	1.8
91-20-3	Naphthalene	103	116	12
95-47-6	o-Xylene	99	98	1.0
103-65-1	Propylbenzene	106	105	0.95
115-07-1	Propylene	106	105	0.95
100-42-5	Styrene	98	97	1.0
127-18-4	Tetrachloroethene	110	107	2.8
109-99-9	Tetrahydrofuran	110	111	0.90
108-88-3	Toluene	96	96	0
156-60-5	trans-1,2-Dichloroethene	88	89	1.1
10061-02-6	trans-1,3-Dichloropropene	105	104	0.96
79-01-6	Trichloroethene	104	103	0.97
108-05-4	Vinyl Acetate	84	84	0
75-01-4	Vinyl Chloride	91	87	4.5

US32TAR1

INITIAL CALIBRATION DATA

Start Cal Date : 19-MAY-2021 14:02
End Cal Date : 20-MAY-2021 00:05
Quant Method : ISTD
Origin : Disabled
Target Version : 3.60
Integrator : HP RTE
Method file : /chem/msdp.i/19MAY21.b/p21q0519a.m
Cal Date : 20-May-2021 11:07 lk8g
Curve Type : Average

Calibration File Names:
Level 2: /chem/msdp.i/19MAY21.b/p051914.d
Level 3: /chem/msdp.i/19MAY21.b/p051915.d
Level 4: /chem/msdp.i/19MAY21.b/p051916.d
Level 5: /chem/msdp.i/19MAY21.b/p051917.d
Level 6: /chem/msdp.i/19MAY21.b/p051918.d
Level 7: /chem/msdp.i/19MAY21.b/p051919.d
Level 8: /chem/msdp.i/19MAY21.b/p051920.d
Level 9: /chem/msdp.i/19MAY21.b/p051921.d
Level 10: /chem/msdp.i/19MAY21.b/p051924.d

Compound	0.40000 Level 2	0.80000 Level 3	2.000 Level 4	5.000 Level 5	20.000 Level 6	50.000 Level 7	100.000 Level 8	200.000 Level 9	0.50000 Level 10	___ RRF	% RSD
1 Dimethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
2 1,1-Dichloro-1-Fluoroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
3 Freon 143a	+++++	0.64347	0.55833	0.28699	0.48663	0.54132	0.53859	0.32618	+++++		0.48307	26.850
4 Freon 134a	+++++	0.77011	0.84089	0.78129	0.71828	0.77669	0.83041	0.82114	+++++		0.79126	5.405
5 Propylene	+++++	+++++	1.30044	1.16437	0.97808	1.08818	1.14258	1.19048	+++++		1.14402	9.390

US32TAR1

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Method file : /chem/msdp.i/19MAY21.b/p21q0519a.m
Cal Date : 20-May-2021 11:07 lk8g
Curve Type : Average

Compound	0.40000 Level 2	0.80000 Level 3	2.000 Level 4	5.000 Level 5	20.000 Level 6	50.000 Level 7	___ RRF	% RSD
	100.000 Level 8	200.000 Level 9	0.50000 Level 10					
6 Propane	0.35885	0.70755	0.41224	0.45766	0.35651	0.39030		
	0.42780	0.42956	+++++				0.44256	25.464
7 1,1-Difluoroethane	+++++	+++++	0.71318	0.51293	0.51356	0.55570		
	0.58422	0.52044	+++++				0.56667	13.609
8 Freon 12	+++++	1.89452	2.25684	2.41287	1.98305	2.23908		
	2.37709	2.51953	2.25486				2.24223	9.426
9 Chlorodifluoromethane	+++++	0.19040	0.21703	0.22854	0.20953	0.22781		
	0.23846	0.23864	+++++				0.22149	7.823
10 Freon 114	+++++	2.19697	2.35022	2.42550	1.98865	2.15848		
	2.32315	2.38505	1.78003				2.20100	10.095
11 Freon 14	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
12 Isobutane	+++++	+++++	2.94068	2.70679	2.13532	2.31544		
	2.47976	2.61851	+++++				2.53275	11.334
13 Freon 142b	2.88379	2.72504	2.51717	2.51995	1.92155	2.20295		
	2.38394	2.38895	+++++				2.44292	12.194
14 Acetaldehyde	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++

US32TAR1

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Cal Date : 20-May-2021 11:07 lk8g
Curve Type : Average

Compound	0.40000 Level 2	0.80000 Level 3	2.000 Level 4	5.000 Level 5	20.000 Level 6	50.000 Level 7	___ RRF	% RSD
	100.000 Level 8	200.000 Level 9	0.50000 Level 10					
15 Chloromethane	+++++	+++++	1.62633	1.12803	1.35456	1.40983		
	1.30365	0.98253	+++++				1.30082	17.255
16 Hexafluoropropene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
17 Freon 13	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
18 Butane	+++++	+++++	0.36632	0.35071	0.20777	0.23711		
	0.29558	0.35050	+++++				0.30133	22.008
19 Vinyl Chloride	+++++	1.63750	1.79369	1.70399	1.29644	1.43002		
	1.50248	1.58819	1.56702				1.56492	10.007
20 1,3-Butadiene	+++++	1.15962	1.11125	1.12135	1.33604	1.33164		
	1.39178	1.46398	1.15352				1.25865	10.936
21 Vinyl Fluoride	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
22 Ethylene Oxide	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
23 Methanol	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++

US32TAR1

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Method file : /chem/msdp.i/19MAY21.b/p21q0519a.m
Cal Date : 20-May-2021 11:07 lk8g
Curve Type : Average

Compound	0.40000 Level 2	0.80000 Level 3	2.000 Level 4	5.000 Level 5	20.000 Level 6	50.000 Level 7	___ RRF	% RSD
	100.000 Level 8	200.000 Level 9	0.50000 Level 10					
24 Bromomethane	+++++	+++++	1.20010	1.20656	0.84526	0.89756		
	0.93585	0.95210	+++++				1.00624	15.607
25 Isobutylene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
26 2-Butene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
27 trans-2-butene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
28 1-Butene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
29 cis-2-Butene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
30 Chloroethane	+++++	+++++	0.55246	0.65854	0.47089	0.52675		
	0.57230	0.59544	+++++				0.56273	11.288
31 Isopentane	+++++	+++++	1.67935	1.76478	1.70699	1.64818		
	1.70298	1.77148	+++++				1.71230	2.809
32 Vinyl Bromide	+++++	0.89521	1.00012	0.99635	0.80298	0.86636		
	0.95282	0.99672	+++++				0.93008	8.292

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Integrator : HP RTE
Method file : /chem/msdp.i/19MAY21.b/p21q0519a.m
Cal Date : 20-May-2021 11:07 lk8g
Curve Type : Average

Compound	0.40000 Level 2	0.80000 Level 3	2.000 Level 4	5.000 Level 5	20.000 Level 6	50.000 Level 7	RRF	% RSD
	100.000 Level 8	200.000 Level 9	0.50000 Level 10					
33 Freon 11	+++++	2.37298	2.30540	2.51055	2.23314	2.30111		
	2.43347	2.54911	2.35618				2.38274	4.554
34 Dichlorofluoromethane	+++++	2.10328	2.06570	2.13311	1.73001	1.97932		
	2.12384	2.24043	+++++				2.05367	7.927
35 Pentane	+++++	2.89800	2.83104	2.84872	2.63186	2.68332		
	2.75389	2.83565	+++++				2.78321	3.479
36 1-Pentene	2.06121	1.59213	1.56421	1.63474	1.37543	1.48214		
	1.53709	1.54332	+++++				1.59878	12.659
37 3-Methyl-1-butene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
38 Ethyl Ether	+++++	0.41543	0.47730	0.50593	0.42858	0.46228		
	0.48772	0.50964	+++++				0.46955	7.767
39 Ethanol	+++++	+++++	0.27474	0.25602	0.21630	0.23850		
	0.24473	0.25725	+++++				0.24792	8.009
40 Freon 123a	1.67643	1.70260	1.56653	1.71267	1.35347	1.42708		
	1.48357	1.59067	+++++				1.56413	8.516
41 Freon 123	2.23549	2.28998	2.32261	2.22470	2.10291	2.12379		
	2.22936	2.25042	+++++				2.22241	3.385

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Integrator : HP RTE
Method file : /chem/msdp.i/19MAY21.b/p21q0519a.m
Cal Date : 20-May-2021 11:07 lk8g
Curve Type : Average

Compound	0.40000 Level 2	0.80000 Level 3	2.000 Level 4	5.000 Level 5	20.000 Level 6	50.000 Level 7	___ RRF	% RSD
	100.000 Level 8	200.000 Level 9	0.50000 Level 10					
42 Acrolein	+++++	+++++	0.43742	0.46343	0.37582	0.40776		
	0.43668	0.46010	+++++				0.43020	7.747
43 Freon 113	+++++	1.66116	1.75764	1.84846	1.81076	1.72301		
	1.78692	1.85367	1.72082				1.77031	3.803
44 1,1-Dichloroethene	+++++	1.13047	0.98158	1.08462	0.90481	0.98246		
	1.04403	1.08444	1.24812				1.05757	9.982
45 2-Chloropropane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
46 2,3-Dimethylbutane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
47 Acetone	+++++	+++++	0.71912	0.66713	0.55646	0.62462		
	0.66710	0.69799	+++++				0.65540	8.867
48 Carbon Disulfide	+++++	+++++	2.82595	2.99407	2.45111	2.66619		
	2.81912	2.96077	+++++				2.78620	7.233
49 Iodomethane	+++++	+++++	1.13057	1.12578	1.89275	2.20331		
	2.35282	2.40768	+++++				1.85215	31.782 <-
50 Isoprene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++

US32TAR1

INITIAL CALIBRATION DATA

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End Cal Date : 20-MAY-2021 00:05
Quant Method : ISTD
Origin : Disabled
Target Version : 3.60
Integrator : HP RTE
Method file : /chem/msdp.i/19MAY21.b/p21q0519a.m
Cal Date : 20-May-2021 11:07 lk8g
Curve Type : Average

Compound	0.40000 Level 2	0.80000 Level 3	2.000 Level 4	5.000 Level 5	20.000 Level 6	50.000 Level 7	100.000 Level 8	200.000 Level 9	0.50000 Level 10	___ RRF	% RSD
51 2-Methyl-2-butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
52 2-Propanol	+++++	+++++	2.69785	2.66069	2.37669	2.59218	2.71904	2.80241	+++++	2.64148	5.564
53 trans-2-Pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
54 3-Chloropropene	+++++	0.46426	0.51422	0.48997	0.39775	0.44877	0.47843	0.46484	+++++	0.46546	7.851
55 Cyclopentene	2.17715	2.47822	2.46632	2.56699	2.14041	2.34707	2.46346	2.49030	+++++	2.39124	6.514
56 Methyl Acetate	2.75833	2.64156	2.95164	2.98908	2.39164	2.73802	2.95740	2.94353	+++++	2.79640	7.421
57 Acetonitrile	+++++	+++++	1.17773	1.29138	1.02662	1.19401	1.30642	1.39067	+++++	1.23114	10.326
58 cis-2-Pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
59 Methylene Chloride	+++++	+++++	1.66058	1.84335	1.45839	1.64567	1.75730	1.84887	+++++	1.70236	8.667

US32TAR1

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Method file : /chem/msdp.i/19MAY21.b/p21q0519a.m
Cal Date : 20-May-2021 11:07 lk8g
Curve Type : Average

Compound	0.40000 Level 2	0.80000 Level 3	2.000 Level 4	5.000 Level 5	20.000 Level 6	50.000 Level 7	100.000 Level 8	200.000 Level 9	0.50000 Level 10	___ RRF	% RSD
60 Cyclopentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
61 1,2-Dichloro-1-fluoroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
62 tert-Butyl alcohol	+++++	+++++	3.20065	3.30496	2.90583	2.89744	3.04086	3.13252	+++++	3.08038	5.297
63 Methyl tert-butyl ether	+++++	3.20233	3.03539	3.11282	3.04059	2.95544	3.02504	3.11966	+++++	3.07018	2.627
64 trans-1,2-Dichloroethene	+++++	0.70368	0.71795	0.72086	0.61472	0.66913	0.70892	0.74337	0.77451	0.70664	6.798
65 2,2-Dimethylbutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
66 Acrylonitrile	+++++	1.08486	1.02749	1.03009	0.83743	0.92318	0.97672	1.03119	0.95852	0.98368	7.902
67 Hexane	+++++	2.36995	2.44383	2.55815	2.23183	2.38896	2.51048	2.60764	2.59146	2.46279	5.242
68 1-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++

US32TAR1

INITIAL CALIBRATION DATA

Start Cal Date : 19-MAY-2021 14:02
End Cal Date : 20-MAY-2021 00:05
Quant Method : ISTD
Origin : Disabled
Target Version : 3.60
Integrator : HP RTE
Method file : /chem/msdp.i/19MAY21.b/p21q0519a.m
Cal Date : 20-May-2021 11:07 lk8g
Curve Type : Average

Compound	0.40000 Level 2	0.80000 Level 3	2.000 Level 4	5.000 Level 5	20.000 Level 6	50.000 Level 7	___ RRF	% RSD
	100.000 Level 8	200.000 Level 9	0.50000 Level 10					
69 Bromoethane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
70 4-Methyl-1-pentene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
71 1,1-Dichloroethane	+++++	2.12050	2.15298	2.31268	1.88443	2.09213		
	2.23176	2.32442	1.81878				2.11721	8.735
72 Isopropyl ether	+++++	+++++	5.59896	5.72998	5.66571	5.66877		
	5.76012	5.94316	+++++				5.72778	2.086
73 Vinyl Acetate	+++++	+++++	0.27670	0.27644	0.22773	0.26524		
	0.28486	0.30161	+++++				0.27210	9.135
74 Chloroprene	2.14359	2.03061	2.29463	2.44863	1.90092	2.21243		
	2.40069	2.43763	+++++				2.23364	8.953
75 1-Propanol	0.34779	0.37288	0.37461	0.33474	0.25627	0.30465		
	0.32597	0.32511	+++++				0.33025	11.608
76 2-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
77 3-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++

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Curve Type : Average

Compound	0.40000 Level 2	0.80000 Level 3	2.000 Level 4	5.000 Level 5	20.000 Level 6	50.000 Level 7	___ RRF	% RSD
	100.000 Level 8	200.000 Level 9	0.50000 Level 10					
78 1-Chloropropane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
79 Ethyl-tert-butyl ether	+++++	+++++	4.83620	5.05574	4.88798	4.89187		
	4.97055	5.10638	+++++				4.95812	2.131
80 2-Methyl-1-pentene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
81 2,4-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
82 2,3-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
83 tert-Butyl chloride	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
84 2,2-Dichloropropane	+++++	1.77964	1.81997	1.87272	1.91022	1.85607		
	1.92796	1.99401	+++++				1.88008	3.793
85 cis-1,2-Dichloroethene	+++++	0.63006	0.72053	0.77116	0.61241	0.72577		
	0.77548	0.80235	0.82883				0.73332	10.638
86 2-Butanone	+++++	+++++	0.58624	0.61354	0.46455	0.53642		
	0.58432	0.60531	+++++				0.56506	9.921

US32TAR1

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Cal Date : 20-May-2021 11:07 lk8g
Curve Type : Average

Compound	0.40000 Level 2	0.80000 Level 3	2.000 Level 4	5.000 Level 5	20.000 Level 6	50.000 Level 7	___ RRF	% RSD
	100.000 Level 8	200.000 Level 9	0.50000 Level 10					
87 Ethyl Acetate	+++++	+++++	0.57084	0.59355	0.47870	0.54564		
	0.57818	0.60540	+++++				0.56205	8.124
88 Methyl Acrylate	3.17133	2.76269	2.95610	3.12287	2.41468	2.81782		
	3.08995	3.13777	+++++				2.93415	8.839
89 Tetrahydrofuran	+++++	1.93446	1.95308	2.03673	1.59091	1.83806		
	1.94537	2.03649	1.69916				1.87928	8.525
91 trans-2-Hexene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
92 Chloroform	+++++	2.04196	2.15806	2.35426	1.86695	2.17101		
	2.31664	2.42886	2.06383				2.17519	8.546
93 cis-2-Hexene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
94 Cyclohexane	+++++	1.43367	1.50722	1.58410	1.57245	1.53317		
	1.54570	1.61103	1.79345				1.57260	6.636
95 Methylcyclopentane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
96 1,1,1-Trichloroethane	+++++	2.46156	2.42553	2.48444	2.36393	2.36921		
	2.42958	2.51331	2.61099				2.45732	3.291

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Curve Type : Average

Compound	0.40000 Level 2	0.80000 Level 3	2.000 Level 4	5.000 Level 5	20.000 Level 6	50.000 Level 7	___ RRF	% RSD
	100.000 Level 8	200.000 Level 9	0.50000 Level 10					
97 Carbon Tetrachloride	+++++	2.25147	2.24440	2.22561	2.35635	2.31498		
	2.45306	2.54156	2.05010				2.30469	6.528
98 sec-Butyl chloride	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
99 1,1-Dichloropropene	+++++	0.17378	0.17794	0.17658	0.15112	0.16544		
	0.17360	0.17276	+++++				0.17017	5.462
100 2,3,4-Trimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
101 2,2,4-Trimethylpentane	+++++	8.25963	8.27890	8.75173	8.57253	8.58971		
	8.69563	8.91957	8.41247				8.56002	2.709
102 Benzene	+++++	0.78550	0.87685	0.84553	0.74484	0.82677		
	0.84553	0.84637	0.82851				0.82499	5.017
103 Isobutanol	0.54457	0.28827	0.32257	0.35375	0.28589	0.33052		
	0.36043	0.34600	+++++				0.35400	23.128
105 tert-Amyl methyl ether	+++++	+++++	0.24796	0.22661	0.23645	0.23382		
	0.22848	0.22244	+++++				0.23262	3.884
106 1,2-Dichloroethane	+++++	0.41345	0.44525	0.47019	0.38312	0.44057		
	0.45058	0.44750	0.38354				0.42928	7.531

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Compound	0.40000 Level 2	0.80000 Level 3	2.000 Level 4	5.000 Level 5	20.000 Level 6	50.000 Level 7	100.000 Level 8	200.000 Level 9	0.50000 Level 10	___ RRF	% RSD
107 Heptane	+++++	0.30034	0.32485	0.33244	0.32365	0.33156	0.32821	0.32372	0.34983	0.32683	4.186
109 Butanal	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
110 n-Butanol	+++++	+++++	0.28572	0.30596	0.28104	0.30551	0.31292	0.30849	+++++	0.29994	4.393
111 Trichloroethene	+++++	0.38664	0.41237	0.41315	0.35498	0.40036	0.41626	0.41270	0.40610	0.40032	5.166
112 Isobutyl chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
113 Ethyl acrylate	0.05846	0.06007	0.06293	0.05929	0.05058	0.05740	0.05605	0.05682	+++++	0.05770	6.225
114 1,2-Dichloropropane	+++++	0.43979	0.42737	0.42567	0.39065	0.41185	0.42060	0.42118	0.44647	0.42295	4.035
115 2-Pentanone	1.21904	1.27106	1.31222	1.33128	1.17591	1.27524	1.28236	1.28701	+++++	1.26926	3.934
116 Methyl Methacrylate	+++++	0.35343	0.34137	0.34552	0.32431	0.34108	0.34921	0.34961	+++++	0.34351	2.790

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	100.000 Level 8	200.000 Level 9	0.50000 Level 10					
117 1,4-Dioxane	+++++	0.22595	0.23899	0.23631	0.21158	0.22036		
	0.22028	0.21996	+++++				0.22478	4.349
118 Dibromomethane	+++++	0.34506	0.39714	0.39205	0.34241	0.37852		
	0.39319	0.38886	0.33065				0.37098	7.285
119 Methacrylonitrile	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
120 2-Chloropentane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
121 2-Butanol	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
122 Bromodichloromethane	+++++	0.58233	0.63649	0.64840	0.58270	0.62912		
	0.65408	0.65615	0.57631				0.62070	5.563
123 1-Bromopropane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
124 Chloroacetonitrile	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
125 n-Butylchloride	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++

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	100.000 Level 8	200.000 Level 9	0.50000 Level 10					
126 cis-1,3-Dichloropropene	+++++	0.50516	0.52561	0.54285	0.48751	0.51912		
	0.54679	0.54891	0.51913				0.52438	4.097
127 Methylcyclohexane	+++++	0.61465	0.55349	0.55932	0.59377	0.58677		
	0.57314	0.56161	0.59163				0.57930	3.623
128 Thiophene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
129 2-Methylhexane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
130 3-Methylhexane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
131 4-Methyl-2-pentanone	+++++	0.44567	0.41535	0.42739	0.42024	0.41445		
	0.41323	0.40846	0.49125				0.42950	6.406
132 Cyclohexene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
135 1-Methoxy-2-propanol	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
136 Octane	+++++	0.49928	0.45400	0.47320	0.49988	0.47864		
	0.47697	0.47146	0.52912				0.48532	4.775

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	100.000 Level 8	200.000 Level 9	0.50000 Level 10					
137 Toluene	+++++	1.17435	1.15077	1.15598	1.08690	1.13273		
	1.13471	1.13158	1.13864				1.13821	2.227
138 1-Heptene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
139 trans-1,3-Dichloropropene	+++++	0.47393	0.50610	0.49304	0.46856	0.50673		
	0.51882	0.51939	0.44922				0.49197	5.206
140 2,3-Dichloro-1-propene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
141 1,1,2-Trichloroethane	+++++	0.39429	0.40170	0.39839	0.38144	0.40439		
	0.41066	0.41457	0.44769				0.40664	4.784
142 Tetrachloroethene	+++++	0.60799	0.58444	0.57342	0.55590	0.57612		
	0.57841	0.58067	0.50122				0.56977	5.476
143 2-Hexanone	+++++	+++++	0.57709	0.59101	0.58032	0.57999		
	0.57982	0.57760	+++++				0.58097	0.877
144 1,3-Dichloropropane	+++++	0.50031	0.56980	0.56359	0.52057	0.55649		
	0.56248	0.55833	0.49258				0.54052	5.748
145 Butyl Acetate	0.62964	0.65442	0.64029	0.63612	0.60754	0.62559		
	0.62661	0.61750	+++++				0.62971	2.270

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146 Dibromochloromethane	+++++	0.78306	0.76265	0.73963	0.72881	0.77388	0.79214	0.79892	0.69915	0.75978	4.551
147 Bromodichloroethene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
148 1,2-Dibromoethane (EDB)	+++++	0.66728	0.66954	0.65728	0.60433	0.66080	0.67392	0.67207	0.61234	0.65220	4.249
149 2-Methylheptane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
150 3-Methylheptane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
151 1-Bromo-2-Chloroethane	+++++	+++++	0.78697	0.80160	0.70538	0.77001	0.79910	0.79313	+++++	0.77603	4.691
152 Diethyl Ketone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
154 Chlorobenzene	+++++	0.98039	1.00297	1.00615	0.95318	0.98786	1.00429	1.00931	0.99753	0.99271	1.887
155 Ethyl Benzene	+++++	0.54541	0.51726	0.50090	0.51483	0.52055	0.51499	0.51317	0.52561	0.51909	2.460

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	100.000 Level 8	200.000 Level 9	0.50000 Level 10					
156 Nonane	+++++	1.38941	1.32633	1.28604	1.42437	1.31837		
	1.30797	1.29642	+++++				1.33556	3.856
157 1,1,1,2-Tetrachloroethane	0.61281	0.53381	0.51050	0.53112	0.56741	0.57195		
	0.55638	0.56243	+++++				0.55580	5.622
158 m,p-Xylene	+++++	0.67481	0.63902	0.63767	0.64445	0.64388		
	0.63345	0.63344	0.69432				0.65013	3.424
159 2-Nitropropane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
160 bis(chloromethyl) Ether	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
161 1-Octene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
162 Epichlorohydrin	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
163 2-Chloroethyl Vinyl Ether	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
164 o-Xylene	+++++	0.62320	0.64348	0.61211	0.64029	0.61923		
	0.61359	0.61455	0.61674				0.62290	1.967

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	100.000 Level 8	200.000 Level 9	0.50000 Level 10					
165 Styrene	+++++	1.11525	1.07016	1.03759	1.05319	1.04745		
	1.04414	1.04408	1.11034				1.06528	2.899
166 2-Heptanone	3.67167	3.65906	3.63687	3.79847	3.47203	3.63504		
	3.74717	3.74578	+++++				3.67076	2.721
167 Bromoform	+++++	0.73776	0.73139	0.72964	0.73975	0.76576		
	0.77834	0.78519	0.72346				0.74891	3.192
168 Cumene	+++++	2.00688	1.92184	1.93874	2.01036	1.95640		
	1.93477	1.91851	1.96634				1.95673	1.829
169 Cyclohexanone	+++++	0.76224	0.72554	0.66914	0.71016	0.68589		
	0.67623	0.66926	+++++				0.69978	4.981
171 Vinyl Cyclohexene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
172 D-Limonene	0.41095	0.35482	0.36589	0.34451	0.78397	0.78575		
	0.74309	0.72747	+++++				0.56456	37.333 <-
173 Ethyl Methacrylate	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
174 1-Chloro-2-Bromopropane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++

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175 1,1,2,2-Tetrachloroethane	+++++	0.98352	0.94583	0.93628	0.96719	0.95406	0.94385	0.94078	0.96890	0.95505	1.733
176 1-Nitropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
177 Bromobenzene	+++++	0.57508	0.60639	0.58293	0.59010	0.60294	0.60418	0.60421	+++++	0.59512	2.090
178 Propylbenzene	+++++	0.60804	0.57139	0.56757	0.59410	0.57645	0.57084	0.56325	0.58989	0.58019	2.677
179 1,2,3-Trichloropropane	+++++	0.31533	0.32131	0.28626	0.30096	0.29557	0.29066	0.28564	0.33945	0.30440	6.324
180 Bromodichloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
181 trans-1,4-Dichloro-2-butene	+++++	0.19277	0.21017	0.19835	0.19195	0.20110	0.20192	0.20059	+++++	0.19955	3.082
182 Decane	+++++	1.79609	1.57143	1.44505	1.61070	1.49654	1.37373	1.36070	+++++	1.52203	10.036
183 4-Ethyltoluene	+++++	0.65033	0.64054	0.60196	0.63791	0.61418	0.60505	0.58832	0.70940	0.63096	6.073

US32TAR1

INITIAL CALIBRATION DATA

Start Cal Date : 19-MAY-2021 14:02
End Cal Date : 20-MAY-2021 00:05
Quant Method : ISTD
Origin : Disabled
Target Version : 3.60
Integrator : HP RTE
Method file : /chem/msdp.i/19MAY21.b/p21q0519a.m
Cal Date : 20-May-2021 11:07 lk8g
Curve Type : Average

Compound	0.40000 Level 2	0.80000 Level 3	2.000 Level 4	5.000 Level 5	20.000 Level 6	50.000 Level 7	___ RRF	% RSD
	100.000 Level 8	200.000 Level 9	0.50000 Level 10					
184 2-Chlorotoluene	+++++	0.49984	0.49658	0.48311	0.50814	0.48663		
	0.47710	0.47426	0.52646				0.49401	3.541
185 1,3,5-Trimethylbenzene	+++++	0.88840	0.83919	0.85191	0.89900	0.86876		
	0.85974	0.86328	0.87938				0.86871	2.254
186 4-Chlorotoluene	0.50588	0.49708	0.52780	0.52855	0.50077	0.52139		
	0.50962	0.50476	+++++				0.51198	2.399
187 Diisobutyl Ketone	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
188 alpha Methyl Styrene	+++++	0.86535	0.87923	0.83462	0.89343	0.87794		
	0.86963	0.86867	0.81509				0.86300	2.969
189 tert-Butylbenzene	+++++	1.62733	1.62633	1.57945	1.65095	1.62250		
	1.63890	1.62816	+++++				1.62480	1.368
190 1,2,4-Trimethylbenzene	+++++	1.70877	1.62174	1.59089	1.69054	1.63659		
	1.62056	1.60514	1.64323				1.63968	2.487
191 Pentachloroethane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
192 sec-Butylbenzene	+++++	0.49560	0.50610	0.49423	0.52391	0.50675		
	0.50351	0.50154	0.50833				0.50500	1.821

US32TAR1

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Integrator : HP RTE
Method file : /chem/msdp.i/19MAY21.b/p21q0519a.m
Cal Date : 20-May-2021 11:07 lk8g
Curve Type : Average

Compound	0.40000 Level 2	0.80000 Level 3	2.000 Level 4	5.000 Level 5	20.000 Level 6	50.000 Level 7	___ RRF	% RSD
	100.000 Level 8	200.000 Level 9	0.50000 Level 10					
193 bis(2-Chloroethyl) Ether	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
194 p-Cymene	+++++	2.30462	2.16921	2.12863	2.30933	2.22972		
	2.20755	2.18683	2.32036				2.23203	3.228
195 1,3-Dichlorobenzene	+++++	1.15658	1.15643	1.11720	1.11291	1.12849		
	1.10749	1.10683	1.09255				1.12231	2.086
196 1,4-Dichlorobenzene	+++++	1.16982	1.13485	1.12938	1.10992	1.14109		
	1.13566	1.13005	1.12236				1.13414	1.523
197 1,2,3-Trimethylbenzene	0.74930	0.74831	0.73294	0.73383	0.76340	0.76689		
	0.73531	0.73354	+++++				0.74544	1.857
198 1-Nonene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
199 alpha-Chlorotoluene	+++++	1.51181	1.54888	1.53627	1.57168	1.58619		
	1.58130	1.57052	1.55269				1.55742	1.609
200 1-Chlorohexane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
201 Undecane	+++++	1.88866	1.82307	1.77843	1.79835	1.77435		
	1.69116	1.55266	+++++				1.75810	6.155

US32TAR1

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Integrator : HP RTE
Method file : /chem/msdp.i/19MAY21.b/p21q0519a.m
Cal Date : 20-May-2021 11:07 lk8g
Curve Type : Average

Compound	0.40000 Level 2	0.80000 Level 3	2.000 Level 4	5.000 Level 5	20.000 Level 6	50.000 Level 7	___ RRF	% RSD
	100.000 Level 8	200.000 Level 9	0.50000 Level 10					
202 Butylbenzene	+++++	0.58573	0.58249	0.55423	0.58167	0.56357		
	0.53997	0.53683	0.59066				0.56690	3.760
203 Butyl Ether	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
204 1,2-Dichlorobenzene	+++++	1.10407	1.12539	1.09831	1.11450	1.09041		
	1.07307	1.07027	1.12778				1.10047	1.987
205 Hexachloroethane	0.25905	0.24933	0.20237	0.17807	0.37549	0.37170		
	0.35119	0.35730	+++++				0.29306	27.359
206 1,2-Dibromo-3-chloropropane	+++++	+++++	0.65994	0.64226	0.67551	0.68086		
	0.67149	0.66910	+++++				0.66653	2.068
207 Dodecane	+++++	1.08884	1.29307	1.39322	1.32012	1.47555		
	1.50880	1.50906	1.55944				1.39351	11.157
208 1,3,5-Trichlorobenzene	1.03535	1.05171	1.06253	1.06764	0.99487	1.06875		
	1.05551	1.04770	+++++				1.04801	2.304
209 1-Decene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
210 alpha-Pinene	0.88866	0.92999	0.95994	0.95225	1.08022	1.15606		
	1.13931	1.16647	+++++				1.03411	10.952

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Integrator : HP RTE
Method file : /chem/msdp.i/19MAY21.b/p21q0519a.m
Cal Date : 20-May-2021 11:07 lk8g
Curve Type : Average

Compound	0.40000 Level 2	0.80000 Level 3	2.000 Level 4	5.000 Level 5	20.000 Level 6	50.000 Level 7	___ RRF	% RSD	
	100.000 Level 8	200.000 Level 9	0.50000 Level 10						
211 1,4-Dichloro-2-Butene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	
212 3-Ethyltoluene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	
213 1,2,4-Trichlorobenzene	+++++	0.73365	0.82349	0.83826	0.78299	0.83257			
	0.83665	0.84391	+++++				0.81307	4.981	
214 beta-Pinene	0.45942	0.49034	0.48541	0.49081	0.86434	0.92317			
	0.87191	0.83101	+++++				0.67705	31.130	<-
215 Hexachlorobutadiene	+++++	0.49305	0.57072	0.57784	0.56417	0.59160			
	0.59973	0.60841	+++++				0.57222	6.696	
216 Naphthalene	+++++	2.17464	2.22406	2.02701	1.91757	2.04984			
	2.05935	2.09326	+++++				2.07796	4.828	
217 Limonene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	
218 Benzaldehyde	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	
219 Indan	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	

US32TAR1

INITIAL CALIBRATION DATA

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Integrator : HP RTE
Method file : /chem/msdp.i/19MAY21.b/p21q0519a.m
Cal Date : 20-May-2021 11:07 lk8g
Curve Type : Average

Compound	0.40000 Level 2	0.80000 Level 3	2.000 Level 4	5.000 Level 5	20.000 Level 6	50.000 Level 7	___ RRF	% RSD
	100.000 Level 8	200.000 Level 9	0.50000 Level 10					
220 Indene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
221 Isobutylbenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
222 1,2,3-Trichlorobenzene	+++++	0.63662	0.72700	0.71965	0.68156	0.74340		
	0.75801	0.76517	+++++				0.71877	6.351
223 2-Ethyltoluene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
224 1-Undecene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
225 4-Ethyl-1,2-dimethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
226 1,3-Diethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
227 1,4-Diethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
228 1,2,4,5-tetramethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++

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Method file : /chem/msdp.i/19MAY21.b/p21q0519a.m
Cal Date : 20-May-2021 11:07 lk8g
Curve Type : Average

Compound	0.40000 Level 2	0.80000 Level 3	2.000 Level 4	5.000 Level 5	20.000 Level 6	50.000 Level 7	___ RRF	% RSD
	100.000 Level 8	200.000 Level 9	0.50000 Level 10					
229 1-Dodecene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
230 Nitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
231 Tridecane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
232 2-Methylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
233 1,3,5-Triethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
M 234 1,2-Dichloroethene (Total)	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
M 235 Chlorobutane (Total)	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
M 236 Total Xylene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
M 237 3 and 4-Ethyltoluene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++

US32TAR1

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Quant Method : ISTD
Origin : Disabled
Target Version : 3.60
Integrator : HP RTE
Method file : /chem/msdp.i/19MAY21.b/p21q0519a.m
Cal Date : 20-May-2021 11:07 lk8g
Curve Type : Average

Compound	0.40000 Level 2	0.80000 Level 3	2.000 Level 4	5.000 Level 5	20.000 Level 6	50.000 Level 7	100.000 Level 8	200.000 Level 9	0.50000 Level 10	___ RRF	% RSD
238 Total Volatile Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
239 TPH reference to Hexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
240 TPH reference to Heptane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
241 TPH reference to Gasoline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
242 TPH reference MineralSpirits	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
243 TPH reference to Stoddard	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
244 TVOC reference to Hexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
245 TVOC reference to Heptane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
246 TVOC reference to Toluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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Target Version : 3.60
Integrator : HP RTE
Method file : /chem/msdp.i/19MAY21.b/p21q0519a.m
Cal Date : 20-May-2021 11:07 lk8g
Curve Type : Average

Compound	0.40000 Level 2	0.80000 Level 3	2.000 Level 4	5.000 Level 5	20.000 Level 6	50.000 Level 7	100.000 Level 8	200.000 Level 9	0.50000 Level 10	___ RRF	% RSD
247 TVOC reference to Toluene-d8	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
248 NMOC reference to Hexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
249 NMOC reference to Heptane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
250 NMOC reference to Toluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
251 C3 - C4 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
252 C4 - C5 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
253 C5 - C6 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
254 C6 - C7 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
255 C7 - C8 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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Cal Date : 20-May-2021 11:07 lk8g
Curve Type : Average

Compound	0.40000 Level 2	0.80000 Level 3	2.000 Level 4	5.000 Level 5	20.000 Level 6	50.000 Level 7	___ RRF	% RSD
	100.000 Level 8	200.000 Level 9	0.50000 Level 10					
256 C8 - C9 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
257 C9 - C10 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
258 C10+ Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
259 C5 - C6 Aliphatic ref C5 + C6	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
260 C6-C8 Aliphatic ref Heptane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
261 C8-C10 Aliphatic ref Decane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
262 C10-C12 Aliphatic ref Dodecan	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
263 C8-C10 Aromatic	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
264 C8-C10 Aromatic ref 1,2,3-TMB	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++

US32TAR1

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Cal Date : 20-May-2021 11:07 lk8g
Curve Type : Average

Compound	0.40000 Level 2	0.80000 Level 3	2.000 Level 4	5.000 Level 5	20.000 Level 6	50.000 Level 7	___ RRF	% RSD
	100.000 Level 8	200.000 Level 9	0.50000 Level 10					
265 C10-C12 Aromatic	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
266 C10-C12 Aromatic 1,2,4,5-TMB	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
267 C10-C12 Aromatic Naphthalene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
$ 104 1,2-Dichloroethane-d4	+++++	1.29421	1.33794	1.42747	1.32413	1.34572		
	1.44423	1.55619	1.30758				1.37968	6.488
$ 133 Benzene-d6	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
$ 134 Toluene-d8	+++++	1.07349	1.09274	1.09966	1.07597	1.08471		
	1.09026	1.08938	1.07858				1.08560	0.834
$ 170 4-Bromofluorobenzene	+++++	0.64219	0.64090	0.63876	0.63357	0.63698		
	0.64598	0.65756	0.63983				0.64197	1.133

US32TAR1

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Integrator : HP RTE
Method file : /chem/msdp.i/19MAY21.b/p21q0519a.m
Cal Date : 20-May-2021 11:07 lk8g
Curve Type : Average

Average %RSD Results.
Calculated Average %RSD = 7.06874
Maximun Average %RSD = 30.00000
* Passed Average %RSD Test.

Report Date: 20-May-2021 11:06

Calibration History

Method : /chem/msdp.i/19MAY21.b/p21q0519a.m
Start Cal Date: 19-MAY-2021 14:02
End Cal Date : 20-MAY-2021 00:05

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 2 , Cal Amount: 0.40000		
19-MAY-2021 19:17	AT20spICAL	/chem/msdp.i/19MAY21.b/p051914.d
Cal Level: 3 , Cal Amount: 0.80000		
19-MAY-2021 19:45	AT20spICAL	/chem/msdp.i/19MAY21.b/p051915.d
19-MAY-2021 14:02	AT20_Level3	/chem/msdp.i/19MAY21.b/p051904.d
Cal Level: 4 , Cal Amount: 2.00000		
19-MAY-2021 20:13	AT20spICAL	/chem/msdp.i/19MAY21.b/p051916.d
19-MAY-2021 14:30	AT20ICAL	/chem/msdp.i/19MAY21.b/p051905.d
Cal Level: 5 , Cal Amount: 5.00000		
19-MAY-2021 20:43	AT20spICAL	/chem/msdp.i/19MAY21.b/p051917.d
19-MAY-2021 15:00	AT20ICAL	/chem/msdp.i/19MAY21.b/p051906.d
Cal Level: 6 , Cal Amount: 20.00000		
19-MAY-2021 21:10	AT20spICAL	/chem/msdp.i/19MAY21.b/p051918.d
19-MAY-2021 15:27	AT20ICAL	/chem/msdp.i/19MAY21.b/p051907.d
Cal Level: 7 , Cal Amount: 50.00000		
19-MAY-2021 21:38	AT20spICAL	/chem/msdp.i/19MAY21.b/p051919.d
19-MAY-2021 15:55	AT20ICAL	/chem/msdp.i/19MAY21.b/p051908.d
Cal Level: 8 , Cal Amount: 100.00000		
19-MAY-2021 22:07	AT20spICAL	/chem/msdp.i/19MAY21.b/p051920.d
19-MAY-2021 16:24	AT20ICAL	/chem/msdp.i/19MAY21.b/p051909.d

Cal Level: 9 , Cal Amount: 200.00000		
19-MAY-2021 22:39	AT20spICAL	/chem/msdp.i/19MAY21.b/p051921.d
19-MAY-2021 16:53	AT20ICAL	/chem/msdp.i/19MAY21.b/p051910.d

Cal Level: 10, Cal Amount: 0.50000		
20-MAY-2021 00:05	AT20_Level2	/chem/msdp.i/19MAY21.b/p051924.d

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 7

Ccal Level: 7 , Ccal Amount: 50.000		
19-MAY-2021 15:55	AT20ICAL	/chem/msdp.i/19MAY21.b/p051908.d
Ccal Level: 7 , Ccal Amount: 50.000		
19-MAY-2021 21:38	AT20spICAL	/chem/msdp.i/19MAY21.b/p051919.d

Initial Calibration Narrative (Extended)
P21Q0519a.m

A multi-point TO-15 initial calibration was analyzed on MSD-P on 05/19/21 and 05/20/21.

ICAL: 3 out. Iodomethane @ 32%, D-Limonene @ 37%, and beta-Pinene @ 31%
Naph RSD @ 4.8%

ICV: 3 out; Trans-1, 4-dichloro-2-butene @ 146%, Dodecane @ 153%, and 1,2,3-Trichlorobenzene @ 133%
File: P051925. Naph recovery: 117%
DODQSM: 3 out; Trans-1, 4-dichloro-2-butene @ 146%, Dodecane @ 153%, and 1,2,3-Trichlorobenzene @ 133% File: P051925a
DOD4.2: 0 (zero) out; File: P051925c
RCP: 0 (zero) RCP compounds out. 5 **Non-RCP** compounds outside 80-120%. File P051925d
DODsp: (PID 23339): 2 out; Trans-1, 4-dichloro-2-butene @ 146%, Dodecane @ 153% and 1,2,3-Trichlorobenzene @ 133 File: P051925e

The concentrations for Ethanol, Acrolein, 1,2,4-Trichlorobenzene, Naphthalene, 1,2,3-Trichlorobenzene, and Hexachlorobutadiene were adjusted in the ICV due to the certified concentration exceeding more than 15% of the nominal concentration.

An 8-point ICAL for AT20 supplemental compounds was analyzed on MSDP on 05/19/21-05/20/21.

An ICV was analyzed for the following AT20 supplemental compounds: 1,1,1,2-Tetrachloroethane.
ICV: 0 out; File: P051925
RCP Compounds: 0 RCP compounds out. File P051925d

ICAL Levels 1 and 2 were not included due to poor peak quality.

*****Bottom of the curve is 0.5ppbv; no TA RLs.*****

The RL for Isobutane was raised from 0.8ppbv to 2.0ppbv.

The concentrations for Dodecane, 1,2,4-TCB, Hexachlorobutadiene, 1,2,3-TCB, and Naphthalene were adjusted in the calibration due to the certified concentration exceeding more than 15% of the nominal concentration.
-Dodecane was curved at 0.618ppbv→ 247ppbv.
-1,2,4-TCB was curved at 1.01ppbv→252ppbv
-Hexachlorobutadiene was curved at 1.03ppbv→257ppbv
-1,2,3-TCB was curved at 1.06ppbv→266ppbv
-Naphthalene was curved at 0.10ppbv →25.4ppbv

BFB tune file:
1. P051901

The TO-15MDL study expires on 10/29/21.
Select specials MDL study expires 10/29/21.

Initial Calibration Narrative (TO-15)
P21Q0519a.m

A multi-point TO-15 initial calibration was analyzed on MSD-P on 05/19/21 and 05/20/21.

ICAL: 0 out
Naph RSD @ 4.8%

ICV: 0 (zero) out. File: P051925
Naph recovery: 117%.
DODQSM: 0 (zero) out. File: P051925a
DOD4.2: 0 (zero) out; P051925c
RCP: 0 (zero) RCP compounds out. 2 **Non-RCP** compounds outside 80-120%. File P051925d
DODsp: (PID 23339): 2 out; Trans-1, 4-dichloro-2-butene @ 146%, Dodecane @ 153% and 1,2,3-Trichlorobenzene @ 133 File: P051925e

The concentrations for Ethanol, 1,2,4-Trichlorobenzene, Naphthalene and Hexachlorobutadiene were adjusted in the ICV due to the certified concentration exceeding more than 15% of the nominal concentration.

ICAL Levels 1 and 2 were not included due to poor peak quality.

*****Bottom of the curve is 0.5ppbv; no TA RLs.*****

The RL for Isobutane was raised from 0.8ppbv to 2.0ppbv.

The concentrations for 1,2,4-TCB, Hexachlorobutadiene and Naphthalene were adjusted in the calibration due to the certified concentration exceeding more than 15% of the nominal concentration.

-1,2,4-TCB was curved at 1.01ppbv→252ppbv
-Hexachlorobutadiene was curved at 1.03ppbv→257ppbv
-Naphthalene was curved at 0.10ppbv →25.4ppbv

BFB tune file:

1. P051901

The TO-15MDL study expires on 10/29/21.

US32TAR1

INITIAL CALIBRATION DATA

Start Cal Date : 19-MAY-2021 14:02
End Cal Date : 20-MAY-2021 00:05
Quant Method : ISTD
Origin : Disabled
Target Version : 3.60
Integrator : HP RTE
Method file : /chem/msdp.i/19MAY21.b/p21q0519a.m
Cal Date : 20-May-2021 11:07 lk8g
Curve Type : Average

Please see Calibration History page(s) for all the calibration files.

UD 5/20/21

GH 5/20/21

Calibration File Names:
Level 2: /chem/msdp.i/19MAY21.b/p051914.d
Level 3: /chem/msdp.i/19MAY21.b/p051915.d
Level 4: /chem/msdp.i/19MAY21.b/p051916.d
Level 5: /chem/msdp.i/19MAY21.b/p051917.d
Level 6: /chem/msdp.i/19MAY21.b/p051918.d
Level 7: /chem/msdp.i/19MAY21.b/p051919.d
Level 8: /chem/msdp.i/19MAY21.b/p051920.d
Level 9: /chem/msdp.i/19MAY21.b/p051921.d
Level 10: /chem/msdp.i/19MAY21.b/p051924.d

Compound	0.40000 Level 2	0.80000 Level 3	2.000 Level 4	5.000 Level 5	20.000 Level 6	50.000 Level 7	___ RRF	% RSD
	100.000 Level 8	200.000 Level 9	0.50000 Level 10					
1 Dimethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
2 1,1-Dichloro-1-Fluoroethane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
3 Freon 143a	+++++	0.64347	0.55833	0.28699	0.48663	0.54132		
	0.53859	0.32618	+++++				0.48307	26.850
4 Freon 134a	+++++	0.77011	0.84089	0.78129	0.71828	0.77669		
	0.83041	0.82114	+++++				0.79126	5.405
5 Propylene	+++++	+++++	1.30044	1.16437	0.97808	1.08818		
	1.14258	1.19048	+++++				1.14402	9.390

MSDP

									Method TO-15/TO-14					
	BFB Verification of 176/174 ratio: (142592/146432)*100=97.37%								SOP# 6					
		3234-10	Exp. Date:		8/17/21				Vacuum:	NA				
	BCM	158,810							Please check all standards					
	1,4-DFB	597,103						Surr.# 3234-10	Exp. Date:	8/17/21	Surrogate# NA	Exp. Date:	NA	
	CB-d5	587,747						CCV #3018-2034	Exp. Date:	8/17/21	LCS: #3018-2016	Exp. Date:	8/5/21	
								CCV sp1# 3018-2045	Exp. Date:	8/17/21	LCS sp1 #	Exp. Date:		
								CCV sp2# 3018-1928	Exp. Date:	6/1/21	LCS sp2 #	Exp. Date:		
	Verified CCV vs ICAL mid-point(-40%): LD							CCV sp3# 3018-2013	Exp. Date:	8/4/21	LCS sp3 #	Exp. Date:		
	Method: p21q0519a.m													

	File #	Enter/Scan Sample ID#	Constant#	Cart Pos.	Pressure	mL	DF	Verify Lead	Loaded Init	Date Analyzed	Time	Review Init	Comments
√	P051901	BFB Tune Check	3234-10	4	36ng	200mL	1.00	LD	LD	5/19/2021	1139	LD	Exp. 8/17/21
X	P051902	ICAL Level 1	3018-2045	1	0.3ppbv (5.0ppbv)	12mL	1.00	LD	LD	5/19/2021	1224	LD	Exp. 8/17/21. Poor peak quality.
X	P051903	ICAL Level 2	3018-2045	1	0.4ppbv (5.0ppbv)	16mL	1.00	LD	LD	5/19/2021	1252	LD	Poor peak quality.
√	P051904	ICAL Level 3	3018-2045	1	0.8ppbv (5.0ppbv)	32mL	1.00	gh	LD	5/19/2021	1402	LD	
√	P051905	ICAL Level 4	3018-2045	1	2.0ppbv (5.0ppbv)	80mL	1.00	gh	LD	5/19/2021	1430	LD	
√	P051906	ICAL Level 5	3018-2045	1	5.0ppbv (5.0ppbv)	200mL	1.00	gh	LD	5/19/2021	1500	LD	
√	P051907	ICAL Level 6	3018-2034	13	20ppbv (200ppbv)	20mL	1.00	gh	LD	5/19/2021	1527	LD	Exp. 8/17/21.
√	P051908	ICAL Level 7	3018-2034	13	50ppbv (200ppbv)	50mL	1.00	gh	LD	5/19/2021	1555	LD	
√	P051909	ICAL Level 8	3018-2034	13	100ppbv (200ppbv)	100mL	1.00	gh	LD	5/19/2021	1624	LD	
√	P051910	ICAL Level 9	3018-2034	13	200ppbv (200ppbv)	200mL	1.00	gh	LD	5/19/2021	1653	LD	
√	P051911	System Blank	35157	4	Humid	200mL	1.00	gh	LD	5/19/2021	1723	LD	
√	P051912	System Blank	35157	4	Humid	200mL	1.00	gh	gh	5/19/2021	1809	LD	
X	P051913	ICAL Level 2	3018-2045	1	0.4ppbv (5.0ppbv)	16mL	1.00	gh	gh	5/19/2021	1849	LD	Exp. 8/17/21. Poor peak quality.
√	P051914	ICAL Level 2	3018-1928	2	0.4ppbv (5.0ppbv)	16mL	1.00	gh	gh	5/19/2021	1917	LD	Exp. 6/1/21.
√	P051915	ICAL Level 3	3018-1928	2	0.8ppbv (5.0ppbv)	32mL	1.00	gh	gh	5/19/2021	1945	LD	
√	P051916	ICAL Level 4	3018-1928	2	2.0ppbv (5.0ppbv)	80mL	1.00	gh	gh	5/19/2021	2013	LD	
√	P051917	ICAL Level 5	3018-1928	2	5.0ppbv (5.0ppbv)	200mL	1.00	gh	gh	5/19/2021	2043	LD	
√	P051918	ICAL Level 6	3018-2013	3	20ppbv (200ppbv)	20mL	1.00	gh	gh	5/19/2021	2110	LD	Exp. 8/4/21.
√	P051919	ICAL Level 7	3018-2013	3	50ppbv (200ppbv)	50mL	1.00	gh	gh	5/19/2021	2138	LD	
√	P051920	ICAL Level 8	3018-2013	3	100ppbv (200ppbv)	100mL	1.00	gh	gh	5/19/2021	2207	LD	
√	P051921	ICAL Level 9	3018-2013	3	200ppbv (200ppbv)	200mL	1.00	LD	gh	5/19/2021	2239	LD	
√	P051922	System Blank	35157	4	Humid	200mL	1.00	LD	gh	5/19/2021	2308	LD	
√	P051923	System Blank	35157	4	Humid	200mL	1.00	LD	gh	5/19/2021	2338	LD	
√	P051924	ICAL Level 10	3018-2045	1	0.5ppbv (5.0ppbv)	20mL	1.00	LD	gh	5/20/2021	0005	LD	Exp. 8/17/21.
√	P051925	ICV	3018-2016	14	50ppbv (200ppbv)	50mL	1.00	LD	gh	5/20/2021	0033	LD	Exp. 8/5/21.

MB 5/20/21

IS and Associated Target Compounds and Surr.
Instruction #: I1.20

Modified EPA Methods TO-14A/TO-15
Internal Standard and Associated Target Compounds and Surrogates

Bromochloromethane*
Target Compounds:
Freon 12
Freon 114
Chloromethane
Vinyl Chloride
1,3-Butadiene
Bromomethane
Chloroethane
Freon 11
Ethanol
Freon 113
1,1-Dichloroethene
Acetone
2-Propanol
Carbon Disulfide
3-Chloropropene
Methylene Chloride
Methyl tert-butyl ether
trans-1,2-Dichloroethene
Hexane
1,1-Dichloroethane
2-Butanone (Methyl Ethyl Ketone)
cis-1,2-Dichloroethene
Tetrahydrofuran
Chloroform
1,1,1-Trichloroethane
Cyclohexane
Carbon Tetrachloride
2,2,4-Trimethylpentane
Surrogates:
1,2-Dichloroethane-d4

1,4-Difluorobenzene
Target Compounds:
Benzene
1,2-Dichloroethane
Heptane
Trichloroethene
1,2-Dichloropropane
1,4-Dioxane
Bromodichloromethane
cis-1,3-Dichloropropene
4-Methyl-2-pentanone
Toluene
Surrogates:
Toluene-d8

Chlorobenzene-d5
Target Compounds:
trans-1,3-Dichloropropene
1,1,2-Trichloroethane
Tetrachloroethene
2-Hexanone
Dibromochloromethane
1,2-Dibromoethane (EDB)
Chlorobenzene
Ethyl Benzene
m,p-Xylene
o-Xylene
Styrene
Bromoform
Cumene
1,1,2,2-Tetrachloroethane
Propylbenzene
4-Ethyltoluene
1,3,5-Trimethylbenzene
1,2,4-Trimethylbenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
alpha-Chlorotoluene
1,2-Dichlorobenzene
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Surrogates:
Bromofluorobenzene

*Note: If Bromochloromethane (BCM) is required as a target compound, the internal standard mix is blended without BCM. Compounds and surrogates assigned to BCM are re-assigned to 1,4-Difluorobenzene for calibration and subsequent quantitation.

US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/19MAY21.b/p051914.d
Lab Smp Id: ICAL Level 2
Inj Date : 19-MAY-2021 19:17
Operator : gh Inst ID: msdp.i
Smp Info : 16mL 3018-1928
Misc Info : 0.4ppbv (5.0ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/19MAY21.b/p21q0519a.m
Meth Date : 20-May-2021 09:50 lk8g Quant Type: ISTD
Cal Date : 19-MAY-2021 19:17 Cal File: p051914.d
Als bottle: 2 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT20spICAL.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 90 Bromochloromethane					CAS #: 74-97-5		
5.778	5.778 (1.000)	130	163890	25.0000		80.00- 120.00	100.00
5.778	5.778 (1.000)	128	127715			48.23- 108.23	77.93
5.771	5.778 (1.000)	49	296851			150.57- 210.57	181.13
* 108 1,4-Difluorobenzene					CAS #: 540-36-3		
6.659	6.659 (1.000)	114	600935	25.0000		80.00- 120.00	100.00
6.659	6.659 (1.000)	88	93335			0.00- 45.71	15.53
* 153 Chlorobenzene-d5					CAS #: 3114-55-4		
9.460	9.460 (1.000)	117	587965	25.0000		80.00- 120.00	100.00
9.453	9.460 (1.000)	82	324501			23.78- 83.78	55.19
6 Propane					CAS #: 74-98-6		
1.675	1.674 (0.290)	43	941	0.40000	0.3085	80.00- 120.00	100.00(a)
1.675	1.674 (0.290)	39	1309			34.98- 94.98	139.11
1.689	1.674 (0.292)	41	861			25.22- 85.22	91.50
13 Freon 142b					CAS #: 75-68-3		
1.884	1.884 (0.326)	65	7562	0.40000	0.4489	80.00- 120.00	100.00(a)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
13 Freon 142b (continued)							
1.898	1.884 (0.329)	45	2247			0.00- 59.77	29.71
36 1-Pentene					CAS #: 109-67-1		
2.891	2.906 (0.500)	55	5405	0.40000	0.4946	80.00- 120.00	100.00(a)
2.899	2.906 (0.502)	42	6051			105.17- 165.17	111.95
40 Freon 123a					CAS #: 354-23-4		
3.378	3.385 (0.585)	117	4396	0.40000	0.4147	80.00- 120.00	100.00(a)
3.378	3.378 (0.585)	67	4936			104.69- 164.69	112.28
41 Freon 123					CAS #: 306-83-2		
3.464	3.479 (0.600)	83	5862	0.40000	0.3993	80.00- 120.00	100.00(a)
3.486	3.479 (0.603)	133	1216			0.00- 50.87	20.74
3.472	3.479 (0.601)	85	3801			36.08- 96.08	64.84
55 Cyclopentene					CAS #: 142-29-0		
4.073	4.073 (0.705)	67	5709	0.40000	0.3618	80.00- 120.00	100.00(a)
4.066	4.073 (0.704)	68	2522			6.76- 66.76	44.18
4.066	4.073 (0.704)	53	1675			0.00- 57.54	29.34
56 Methyl Acetate					CAS #: 79-20-9		
4.080	4.073 (0.706)	43	7233	0.40000	0.3918	80.00- 120.00	100.00(a)
4.080	4.073 (0.706)	74	768			0.00- 44.13	10.62
74 Chloroprene					CAS #: 126-99-8		
5.019	5.019 (0.869)	53	5621	0.40000	0.3852	80.00- 120.00	100.00(a)
5.019	5.019 (0.869)	88	2057			9.21- 69.21	36.59
5.012	5.019 (0.867)	50	1789			0.00- 54.25	31.83
75 1-Propanol					CAS #: 71-23-8		
5.098	5.083 (0.882)	59	912	0.40000	0.4010	80.00- 120.00	100.00(a)
5.098	5.083 (0.882)	42	931			63.23- 123.23	102.08
5.105	5.083 (0.883)	41	494			24.74- 84.74	54.17
88 Methyl Acrylate					CAS #: 96-33-3		
5.628	5.620 (0.974)	55	8316	0.40000	0.4277	80.00- 120.00	100.00(a)
5.621	5.620 (0.973)	85	1426			0.00- 41.28	17.15
5.628	5.620 (0.974)	58	1499			0.00- 38.22	18.03
103 Isobutanol					CAS #: 78-83-1		
6.244	6.244 (1.081)	39	1428	0.40000	0.5920	80.00- 120.00	100.00(a)
6.244	6.244 (1.081)	43	3902			448.18- 508.18	273.25
6.244	6.244 (1.081)	41	2603			299.99- 359.99	182.28
113 Ethyl acrylate					CAS #: 140-88-5		
6.939	6.938 (0.733)	99	550	0.40000	0.3922	80.00- 120.00	100.00(a)

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
113 Ethyl acrylate (continued)							
6.939	6.938 (0.733)	45	1161			149.95- 209.95	211.09
6.939	6.938 (0.733)	55	9624			1849.07-1909.07	1749.82
115 2-Pentanone					CAS #: 107-87-9		
7.032	7.031 (0.743)	43	11468	0.40000	0.3804	80.00- 120.00	100.00(a)
7.039	7.031 (0.744)	58	1303			0.00- 37.44	11.36
7.032	7.031 (0.743)	86	1613			0.00- 42.78	14.07
145 Butyl Acetate					CAS #: 123-86-4		
8.665	8.665 (1.301)	56	6054	0.40000	0.3952	80.00- 120.00	100.00(a)
8.665	8.665 (1.301)	73	2892			0.00- 59.10	47.77
8.665	8.657 (1.301)	43	14727			215.30- 275.30	243.26
157 1,1,1,2-Tetrachloroethane					CAS #: 630-20-6		
9.596	9.596 (1.014)	131	5765	0.40000	0.4440	80.00- 120.00	100.00(a)
9.460	9.460 (1.000)	117	587965			57.42- 117.42	10198.87
9.596	9.596 (1.014)	95	2522			5.70- 65.70	43.75
166 2-Heptanone					CAS #: 110-43-0		
10.362	10.362 (1.793)	58	9628	0.40000	0.3991	80.00- 120.00	100.00(a)
10.362	10.362 (1.793)	43	17002			136.03- 196.03	176.59
172 D-Limonene					CAS #: 5989-27-5		
12.089	12.089 (1.278)	68	3866	0.40000	0.3634	80.00- 120.00	100.00(a)
12.089	12.089 (1.278)	93	2278			39.41- 99.41	58.92
186 4-Chlorotoluene					CAS #: 106-43-4		
11.444	11.444 (1.210)	126	4759	0.40000	0.3920	80.00- 120.00	100.00(a)
11.444	11.444 (1.210)	91	14696			295.02- 355.02	308.80
11.437	11.444 (1.209)	63	2158			11.82- 71.82	45.35
197 1,2,3-Trimethylbenzene					CAS #: 526-73-8		
12.318	12.318 (1.302)	120	7049	0.40000	0.4016	80.00- 120.00	100.00(a)
12.318	12.318 (1.302)	105	15461			192.40- 252.40	219.34
12.318	12.318 (1.302)	77	2242			0.00- 54.69	31.81
205 Hexachloroethane					CAS #: 67-72-1		
12.963	12.970 (1.370)	201	2437	0.40000	0.4110	80.00- 120.00	100.00(a)
12.963	12.970 (1.370)	117	3360			102.99- 162.99	137.87
208 1,3,5-Trichlorobenzene					CAS #: 108-70-3		
13.758	13.758 (1.454)	180	9740	0.40000	0.3917	80.00- 120.00	100.00(a)
13.758	13.758 (1.454)	182	8432			65.24- 125.24	86.57
210 alpha-Pinene					CAS #: 80-56-8		
10.599	10.599 (1.120)	93	8360	0.40000	0.3637	80.00- 120.00	100.00(a)

				AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
RT	EXP RT (REL RT)	MASS	RESPONSE				
210 alpha-Pinene (continued)							
10.599	10.599 (1.120)	77	2517			0.00- 58.21	30.11
214 beta-Pinene					CAS #: 127-91-3		
11.415	11.422 (1.207)	93	4322	0.40000	0.3225	80.00- 120.00	100.00(a)
11.444	11.444 (1.210)	91	14696			153.57- 213.57	340.03

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p051914.d
Lab Smp Id: ICAL Level 2
Analysis Type: VOA
Quant Type: ISTD
Operator: gh
Method File: /chem/msdp.i/19MAY21.b/p21q0519a.m
Misc Info: 0.4ppbv (5.0ppbv)

Calibration Date: 19-MAY-2021
Calibration Time: 15:55
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	158810	95286	222334	163890	3.20
108 1,4-Difluorobenze	597103	358262	835944	600935	0.64
153 Chlorobenzene-d5	587747	352648	822846	587965	0.04

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.78	5.45	6.11	5.78	-0.00
108 1,4-Difluorobenze	6.66	6.33	6.99	6.66	-0.00
153 Chlorobenzene-d5	9.46	9.13	9.79	9.46	-0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msdp.i/19MAY21.b/p051914.d

Date : 19-MAY-2021 19:17

Client ID:

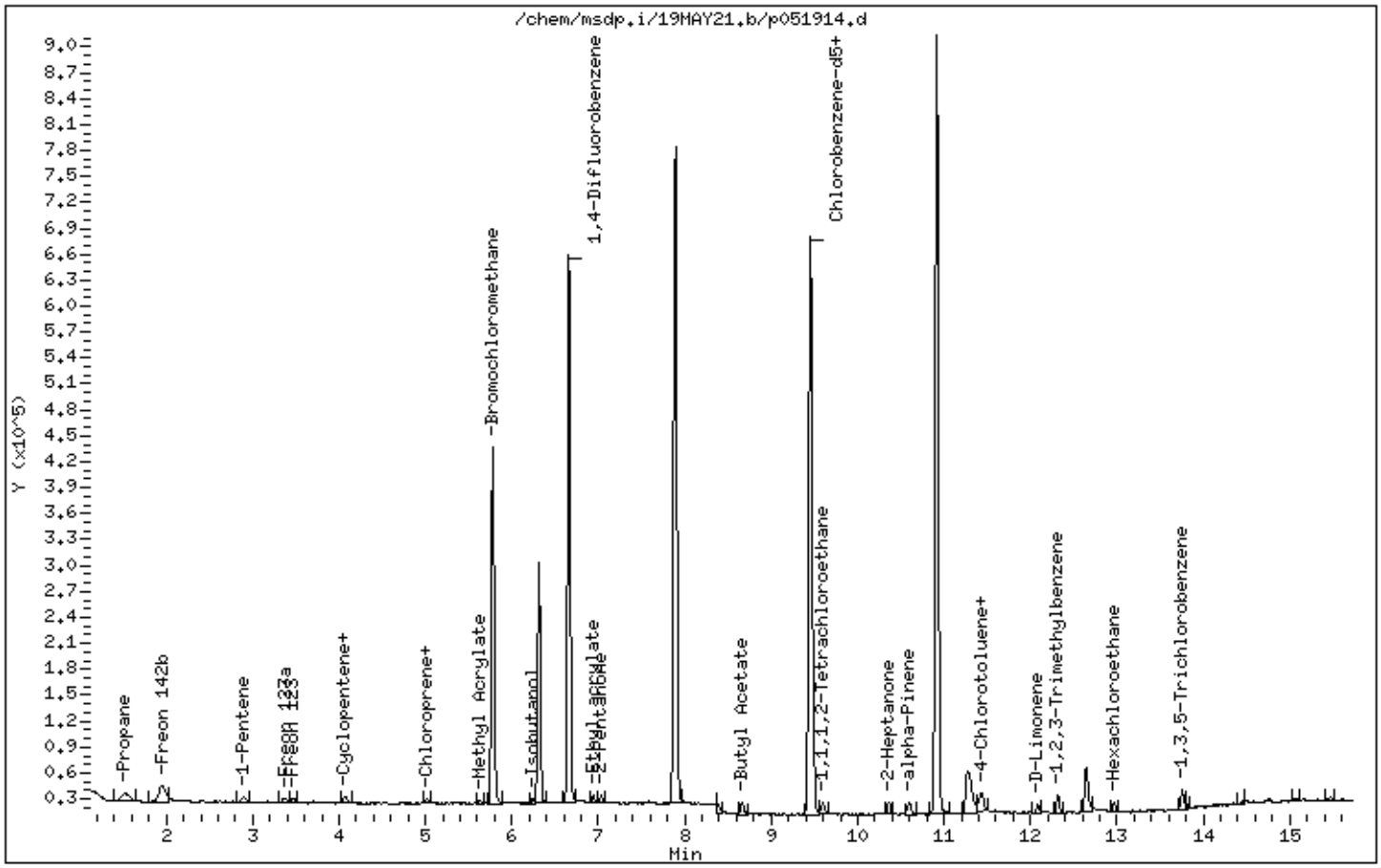
Instrument: msdp.i

Sample Info: 16mL 3018-1928

Operator: gh

Column phase: RTX-624

Column diameter: 0.25



US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/19MAY21.b/p051904.d
Lab Smp Id: ICAL Level 3
Inj Date : 19-MAY-2021 14:02
Operator : LD Inst ID: msdp.i
Smp Info : 32mL 3018-2045
Misc Info : 0.8ppbv (5.0ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/19MAY21.b/p21q0519a.m
Meth Date : 20-May-2021 11:07 lk8g Quant Type: ISTD
Cal Date : 19-MAY-2021 19:45 Cal File: p051915.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT20_Level3.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
4 Freon 134a					CAS #: 811-97-2		
1.633	1.633 (0.283)	83	4069	0.80000	0.7786	80.00- 120.00	100.00(a)
1.633	1.633 (0.283)	69	3525			59.44- 119.44	86.63
1.744	1.745 (0.302)	51	16724			419.06- 479.06	411.01
8 Freon 12					CAS #: 75-71-8		
1.717	1.717 (0.297)	85	10010	0.80000	0.6759	80.00- 120.00	100.00
1.717	1.717 (0.297)	87	3731			2.37- 62.37	37.27
9 Chlorodifluoromethane					CAS #: 75-45-6		
1.744	1.745 (0.302)	67	1006	0.80000	0.6877	80.00- 120.00	100.00
1.744	1.745 (0.302)	51	16724			1501.01-1561.01	1662.43
10 Freon 114					CAS #: 76-14-2		
1.842	1.856 (0.319)	135	11608	0.80000	0.7985	80.00- 120.00	100.00
1.842	1.856 (0.319)	137	3024			2.30- 62.30	26.05
19 Vinyl Chloride					CAS #: 75-01-4		
2.068	2.068 (0.358)	62	8652	0.80000	0.8371	80.00- 120.00	100.00
2.060	2.068 (0.357)	64	2015			0.00- 59.69	23.29

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
20 1,3-Butadiene						CAS #: 106-99-0	
2.089	2.089 (0.362)	54	6127	0.80000	0.7370	80.00- 120.00	100.00
2.082	2.089 (0.360)	39	6271			52.37- 112.37	102.35
32 Vinyl Bromide						CAS #: 593-60-2	
2.834	2.841 (0.490)	106	4730	0.80000	0.7700	80.00- 120.00	100.00
2.834	2.841 (0.490)	108	4577			69.27- 129.27	96.77
33 Freon 11						CAS #: 75-69-4	
2.884	2.884 (0.499)	101	12538	0.80000	0.7967	80.00- 120.00	100.00
2.884	2.884 (0.499)	103	8055			34.72- 94.72	64.24
34 Dichlorofluoromethane						CAS #: 75-43-4	
2.891	2.899 (0.500)	67	11113	0.80000	0.8193	80.00- 120.00	100.00(a)
2.891	2.899 (0.500)	69	4116			0.84- 60.84	37.04
35 Pentane						CAS #: 109-66-0	
2.963	2.970 (0.513)	43	15312	0.80000	0.8330	80.00- 120.00	100.00
2.970	2.970 (0.514)	57	3948			0.00- 44.98	25.78
2.970	2.970 (0.514)	72	1224			0.00- 37.39	7.99
38 Ethyl Ether						CAS #: 60-29-7	
3.300	3.285 (0.571)	74	2195	0.80000	0.7078	80.00- 120.00	100.00
3.285	3.285 (0.569)	59	5814			163.46- 223.46	264.87
3.278	3.285 (0.567)	45	7546			250.40- 310.40	343.78
43 Freon 113						CAS #: 76-13-1	
3.550	3.550 (0.614)	151	8777	0.80000	0.7507	80.00- 120.00	100.00
3.550	3.550 (0.614)	153	5991			33.56- 93.56	68.26
3.550	3.550 (0.614)	101	10762			89.21- 149.21	122.62
44 1,1-Dichloroethene						CAS #: 75-35-4	
3.572	3.579 (0.618)	96	5973	0.80000	0.8551	80.00- 120.00	100.00
3.572	3.579 (0.618)	98	4228			34.02- 94.02	70.79
3.572	3.579 (0.618)	61	10403			168.77- 228.77	174.17
54 3-Chloropropene						CAS #: 107-05-1	
4.037	4.052 (0.699)	76	2453	0.80000	0.7979	80.00- 120.00	100.00
4.045	4.052 (0.700)	41	9150			396.19- 456.19	373.01
63 Methyl tert-butyl ether						CAS #: 1634-04-4	
4.446	4.446 (0.769)	73	16920	0.80000	0.8344	80.00- 120.00	100.00
4.453	4.446 (0.771)	57	5536			3.10- 63.10	32.72
4.446	4.446 (0.769)	41	6146			1.28- 61.28	36.32
64 trans-1,2-Dichloroethene						CAS #: 156-60-5	
4.474	4.482 (0.774)	98	3718	0.80000	0.7966	80.00- 120.00	100.00

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
64 trans-1,2-Dichloroethene (continued)							
4.474	4.482 (0.774)	61	9389			255.84- 315.84	252.53
4.474	4.482 (0.774)	96	5939			127.59- 187.59	159.74
66 Acrylonitrile					CAS #: 107-13-1		
4.553	4.560 (0.788)	52	5732	0.80000	0.8823	80.00- 120.00	100.00
4.553	4.560 (0.788)	53	5440			88.05- 148.05	94.91
67 Hexane					CAS #: 110-54-3		
4.696	4.697 (0.813)	57	12522	0.80000	0.7698	80.00- 120.00	100.00
4.696	4.697 (0.813)	43	8321			37.52- 97.52	66.45
4.696	4.697 (0.813)	86	1347			0.00- 41.48	10.76
71 1,1-Dichloroethane					CAS #: 75-34-3		
4.962	4.962 (0.859)	63	11204	0.80000	0.8012	80.00- 120.00	100.00
4.962	4.962 (0.859)	65	3451			0.00- 59.70	30.80
84 2,2-Dichloropropane					CAS #: 594-20-7		
5.506	5.506 (0.953)	77	9403	0.80000	0.7573	80.00- 120.00	100.00(a)
5.506	5.506 (0.953)	79	3306			2.28- 62.28	35.16
5.506	5.506 (0.953)	97	2804			0.00- 53.93	29.82
85 cis-1,2-Dichloroethene					CAS #: 156-59-2		
5.542	5.549 (0.959)	98	3329	0.80000	0.6873	80.00- 120.00	100.00
5.542	5.549 (0.959)	96	6335			125.75- 185.75	190.30
5.542	5.549 (0.959)	61	13408			332.40- 392.40	402.76
89 Tetrahydrofuran					CAS #: 109-99-9		
5.778	5.771 (1.000)	42	10221	0.80000	0.8235	80.00- 120.00	100.00
5.778	5.771 (1.000)	71	1918			0.00- 55.82	18.77
5.778	5.771 (1.000)	72	2670			0.00- 57.59	26.12
* 90 Bromochloromethane					CAS #: 74-97-5		
5.778	5.778 (1.000)	130	165114	25.0000		80.00- 120.00	100.00
5.778	5.778 (1.000)	128	125643			48.23- 108.23	76.09
5.771	5.778 (1.000)	49	294417			150.57- 210.57	178.31
92 Chloroform					CAS #: 67-66-3		
5.835	5.835 (1.010)	83	10789	0.80000	0.7510	80.00- 120.00	100.00
5.835	5.835 (1.010)	85	7171			34.70- 94.70	66.47
94 Cyclohexane					CAS #: 110-82-7		
5.957	5.957 (1.031)	84	7575	0.80000	0.7293	80.00- 120.00	100.00
5.957	5.957 (1.031)	56	14971			142.57- 202.57	197.64
5.957	5.957 (1.031)	41	7502			62.09- 122.09	99.04

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
96 1,1,1-Trichloroethane					CAS #: 71-55-6		
5.964	5.972 (1.032)	97	13006	0.80000	0.8014	80.00- 120.00	100.00
5.971	5.972 (1.033)	99	7613			34.02- 94.02	58.53
97 Carbon Tetrachloride					CAS #: 56-23-5		
6.086	6.086 (1.053)	119	11896	0.80000	0.7815	80.00- 120.00	100.00
6.086	6.086 (1.053)	117	10211			70.64- 130.64	85.84
99 1,1-Dichloropropene					CAS #: 563-58-6		
6.115	6.115 (0.918)	110	3371	0.80000	0.8170	80.00- 120.00	100.00(a)
6.115	6.115 (0.918)	75	7643			226.85- 286.85	226.73
101 2,2,4-Trimethylpentane					CAS #: 540-84-1		
6.280	6.280 (1.087)	57	43641	0.80000	0.7719	80.00- 120.00	100.00
6.280	6.280 (1.087)	56	13299			2.24- 62.24	30.47
6.280	6.280 (1.087)	41	11333			0.00- 54.39	25.97
102 Benzene					CAS #: 71-43-2		
6.294	6.301 (0.945)	78	15237	0.80000	0.7617	80.00- 120.00	100.00
6.301	6.301 (0.946)	77	4544			0.00- 52.90	29.82
$ 104 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
6.308	6.308 (1.092)	65	213692	25.0000	23.451	80.00- 120.00	100.00
6.308	6.308 (1.092)	67	105735			27.21- 87.21	49.48
106 1,2-Dichloroethane					CAS #: 107-06-2		
6.380	6.380 (0.958)	62	8020	0.80000	0.7705	80.00- 120.00	100.00
6.380	6.380 (0.958)	64	2408			0.79- 60.79	30.02
107 Heptane					CAS #: 142-82-5		
6.444	6.444 (0.968)	71	5826	0.80000	0.7352	80.00- 120.00	100.00
6.444	6.444 (0.968)	43	17276			226.53- 286.53	296.53
6.444	6.444 (0.968)	57	8717			100.85- 160.85	149.62
* 108 1,4-Difluorobenzene					CAS #: 540-36-3		
6.659	6.659 (1.000)	114	606184	25.0000		80.00- 120.00	100.00
6.659	6.659 (1.000)	88	94479			0.00- 45.71	15.59
111 Trichloroethene					CAS #: 79-01-6		
6.867	6.867 (1.031)	95	7500	0.80000	0.7727	80.00- 120.00	100.00
6.867	6.867 (1.031)	130	8249			76.29- 136.29	109.99
6.867	6.867 (1.031)	97	5319			33.63- 93.63	70.92
114 1,2-Dichloropropane					CAS #: 78-87-5		
7.089	7.089 (1.065)	63	8531	0.80000	0.8318	80.00- 120.00	100.00
7.089	7.089 (1.065)	62	5060			41.07- 101.07	59.31

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
114 1,2-Dichloropropane (continued)							
7.089	7.089 (1.065)	41	4367			22.53- 82.53	51.19
116 Methyl Methacrylate					CAS #: 80-62-6		
7.132	7.132 (0.754)	69	6670	0.80000	0.8231	80.00- 120.00	100.00
7.132	7.132 (0.754)	41	13396			179.84- 239.84	200.84
7.139	7.139 (0.755)	100	2488			9.59- 69.59	37.30
117 1,4-Dioxane					CAS #: 123-91-1		
7.182	7.175 (1.079)	88	4383	0.80000	0.8042	80.00- 120.00	100.00
7.175	7.175 (1.077)	58	4085			68.28- 128.28	93.20
7.182	7.175 (1.079)	57	1304			2.68- 62.68	29.75
118 Dibromomethane					CAS #: 74-95-3		
7.204	7.204 (0.761)	174	6512	0.80000	0.7441	80.00- 120.00	100.00
7.204	7.204 (0.761)	93	7271			60.09- 120.09	111.66
7.204	7.204 (0.761)	95	5822			48.38- 108.38	89.40
122 Bromodichloromethane					CAS #: 75-27-4		
7.318	7.318 (1.099)	83	11296	0.80000	0.7506	80.00- 120.00	100.00
7.318	7.318 (1.099)	85	7568			35.24- 95.24	67.00
126 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.691	7.691 (1.155)	75	9799	0.80000	0.7707	80.00- 120.00	100.00
7.691	7.691 (1.155)	77	3081			2.42- 62.42	31.44
7.691	7.691 (1.155)	39	6857			37.16- 97.16	69.98
127 Methylcyclohexane					CAS #: 108-87-2		
6.974	6.974 (1.047)	83	11923	0.80000	0.8488	80.00- 120.00	100.00(a)
6.974	6.974 (1.047)	98	4960			15.78- 75.78	41.60
6.974	6.974 (1.047)	55	14478			84.64- 144.64	121.43
131 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.798	7.791 (1.171)	58	8645	0.80000	0.8301	80.00- 120.00	100.00
7.791	7.791 (1.170)	43	23117			242.35- 302.35	267.40
7.798	7.791 (1.171)	85	3561			3.24- 63.24	41.19
$ 134 Toluene-d8					CAS #: 2037-26-5		
7.891	7.891 (1.185)	98	650730	25.0000	24.721	80.00- 120.00	100.00
7.891	7.891 (1.185)	70	72936			0.00- 40.44	11.21
7.891	7.891 (1.185)	100	428196			34.95- 94.95	65.80
137 Toluene					CAS #: 108-88-3		
7.949	7.949 (1.194)	91	22780	0.80000	0.8254	80.00- 120.00	100.00
7.949	7.949 (1.194)	92	12614			28.38- 88.38	55.37

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
136 Octane					CAS #: 111-65-9		
7.941	7.949 (1.193)	57	9685	0.80000	0.8230	80.00- 120.00	100.00
7.941	7.949 (1.193)	85	8103			56.00- 116.00	83.67
7.941	7.949 (1.193)	43	24475			228.66- 288.66	252.71
139 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
8.214	8.214 (0.868)	75	8944	0.80000	0.7706	80.00- 120.00	100.00
8.214	8.214 (0.868)	77	3413			1.24- 61.24	38.16
8.214	8.214 (0.868)	39	5828			34.11- 94.11	65.16
141 1,1,2-Trichloroethane					CAS #: 79-00-5		
8.400	8.400 (0.888)	97	7441	0.80000	0.7757	80.00- 120.00	100.00
8.400	8.400 (0.888)	99	4988			31.96- 91.96	67.03
8.400	8.400 (0.888)	83	6109			52.93- 112.93	82.10
142 Tetrachloroethene					CAS #: 127-18-4		
8.464	8.464 (0.895)	166	11474	0.80000	0.8537	80.00- 120.00	100.00
8.464	8.464 (0.895)	129	9050			47.84- 107.84	78.87
8.464	8.464 (0.895)	131	8617			45.29- 105.29	75.10
144 1,3-Dichloropropane					CAS #: 142-28-9		
8.579	8.579 (1.288)	76	9705	0.80000	0.7405	80.00- 120.00	100.00(a)
8.579	8.579 (1.288)	41	15102			94.99- 154.99	155.61
8.579	8.579 (1.288)	78	4420			2.05- 62.05	45.54
146 Dibromochloromethane					CAS #: 124-48-1		
8.801	8.801 (0.930)	129	14778	0.80000	0.8245	80.00- 120.00	100.00
8.794	8.801 (0.930)	127	11344			47.45- 107.45	76.76
148 1,2-Dibromoethane (EDB)					CAS #: 106-93-4		
8.951	8.951 (0.946)	107	12593	0.80000	0.8185	80.00- 120.00	100.00
8.951	8.951 (0.946)	109	11731			64.21- 124.21	93.15
* 153 Chlorobenzene-d5					CAS #: 3114-55-4		
9.460	9.460 (1.000)	117	589752	25.0000		80.00- 120.00	100.00
9.460	9.460 (1.000)	82	320479			23.78- 83.78	54.34
154 Chlorobenzene					CAS #: 108-90-7		
9.496	9.496 (1.004)	112	18502	0.80000	0.7901	80.00- 120.00	100.00
9.496	9.496 (1.004)	114	5822			1.74- 61.74	31.47
9.496	9.496 (1.004)	77	16247			25.04- 85.04	87.81
155 Ethyl Benzene					CAS #: 100-41-4		
9.567	9.567 (1.011)	106	10293	0.80000	0.8406	80.00- 120.00	100.00
9.567	9.567 (1.011)	91	30246			273.74- 333.74	293.85

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
156 Nonane					CAS #: 111-84-2		
9.596	9.596 (1.014)	43	26221	0.80000	0.8322	80.00- 120.00	100.00
9.596	9.603 (1.014)	57	21624			54.16- 114.16	82.47
9.603	9.603 (1.015)	85	6333			0.00- 53.90	24.15
158 m,p-Xylene					CAS #: 108-38-3		
9.718	9.718 (1.027)	106	12735	0.80000	0.8304	80.00- 120.00	100.00
9.718	9.718 (1.027)	91	24959			163.73- 223.73	195.99
164 o-Xylene					CAS #: 95-47-6		
10.226	10.226 (1.081)	106	11761	0.80000	0.8004	80.00- 120.00	100.00
10.226	10.226 (1.081)	91	25094			177.45- 237.45	213.37
165 Styrene					CAS #: 100-42-5		
10.255	10.255 (1.084)	104	21047	0.80000	0.8375	80.00- 120.00	100.00
10.255	10.255 (1.084)	78	10991			17.88- 77.88	52.22
167 Bromoform					CAS #: 75-25-2		
10.542	10.542 (1.114)	173	13923	0.80000	0.7881	80.00- 120.00	100.00
10.542	10.542 (1.114)	171	7225			21.25- 81.25	51.89
168 Cumene					CAS #: 98-82-8		
10.649	10.649 (1.126)	105	37874	0.80000	0.8205	80.00- 120.00	100.00
10.649	10.649 (1.126)	120	10437			0.00- 58.52	27.56
10.649	10.649 (1.126)	51	4962			0.00- 43.00	13.10
169 Cyclohexanone					CAS #: 108-94-1		
10.871	10.871 (1.149)	55	14385	0.80000	0.8714	80.00- 120.00	100.00(a)
10.878	10.871 (1.150)	98	5447			1.94- 61.94	37.87
10.871	10.871 (1.149)	42	10807			37.89- 97.89	75.13
$ 170 4-Bromofluorobenzene					CAS #: 460-00-4		
10.921	10.921 (1.154)	174	378732	25.0000	25.008	80.00- 120.00	100.00
10.914	10.921 (1.154)	95	481990			95.92- 155.92	127.26
10.921	10.921 (1.154)	176	365332			66.89- 126.89	96.46
175 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
11.107	11.100 (1.174)	83	18561	0.80000	0.8238	80.00- 120.00	100.00
11.100	11.100 (1.173)	85	11307			35.20- 95.20	60.92
177 Bromobenzene					CAS #: 108-86-1		
11.107	11.107 (1.174)	156	10853	0.80000	0.7731	80.00- 120.00	100.00(a)
11.107	11.107 (1.174)	158	10789			67.21- 127.21	99.41
11.179	11.179 (1.182)	77	6933			29.02- 89.02	63.88
178 Propylbenzene					CAS #: 103-65-1		
11.150	11.150 (1.179)	120	11475	0.80000	0.8384	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
178 Propylbenzene (continued)							
11.150	11.150 (1.179)	91	43112			366.49- 426.49	375.70
11.143	11.150 (1.178)	105	2100			0.00- 44.85	18.30
179 1,2,3-Trichloropropane					CAS #: 96-18-4		
11.179	11.179 (1.182)	110	5951	0.80000	0.8287	80.00- 120.00	100.00
11.179	11.179 (1.182)	75	18371			280.55- 340.55	308.70
11.100	11.100 (1.173)	61	3117			15.49- 75.49	52.38
181 trans-1,4-Dichloro-2-butene					CAS #: 110-57-6		
11.179	11.179 (1.182)	53	3638	0.80000	0.7728	80.00- 120.00	100.00(a)
11.179	11.179 (1.182)	89	2918			49.11- 109.11	80.21
11.179	11.179 (1.182)	75	18371			426.44- 486.44	504.98
182 Decane					CAS #: 124-18-5		
11.251	11.251 (1.189)	57	33896	0.80000	0.9440	80.00- 120.00	100.00
11.258	11.251 (1.190)	71	9535			0.00- 57.66	28.13
11.258	11.258 (1.190)	142	1347			0.00- 34.09	3.97
183 4-Ethyltoluene					CAS #: 622-96-8		
11.286	11.287 (1.193)	120	12273	0.80000	0.8246	80.00- 120.00	100.00
11.286	11.287 (1.193)	105	37727			284.55- 344.55	307.40
184 2-Chlorotoluene					CAS #: 95-49-8		
11.308	11.308 (1.195)	126	9433	0.80000	0.8094	80.00- 120.00	100.00
11.308	11.308 (1.195)	91	32992			315.17- 375.17	349.75
11.308	11.301 (1.195)	65	4962			21.55- 81.55	52.60
185 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
11.365	11.365 (1.201)	120	16766	0.80000	0.8181	80.00- 120.00	100.00
11.365	11.365 (1.201)	105	32345			164.93- 224.93	192.92
188 alpha Methyl Styrene					CAS #: 98-83-9		
11.645	11.645 (1.231)	118	16331	0.80000	0.8022	80.00- 120.00	100.00
11.645	11.645 (1.231)	103	9432			25.30- 85.30	57.76
189 tert-Butylbenzene					CAS #: 98-06-6		
11.738	11.738 (1.241)	119	30711	0.80000	0.8012	80.00- 120.00	100.00
11.738	11.738 (1.241)	134	7000			0.00- 54.25	22.79
11.738	11.738 (1.241)	91	18642			31.27- 91.27	60.70
190 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
11.817	11.817 (1.249)	105	32248	0.80000	0.8337	80.00- 120.00	100.00
11.817	11.817 (1.249)	120	16498			19.05- 79.05	51.16
192 sec-Butylbenzene					CAS #: 135-98-8		
11.996	11.996 (1.268)	134	9353	0.80000	0.7851	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
192 sec-Butylbenzene (continued)							
11.996	11.996 (1.268)	105	44701			437.55- 497.55	477.93
11.996	11.996 (1.268)	91	7110			40.76- 100.76	76.02
194 p-Cymene					CAS #: 99-87-6		
12.160	12.160 (1.285)	119	43493	0.80000	0.8260	80.00- 120.00	100.00
12.160	12.160 (1.285)	134	10779			0.00- 55.54	24.78
12.153	12.153 (1.285)	91	9590			0.00- 51.48	22.05
195 1,3-Dichlorobenzene					CAS #: 541-73-1		
12.196	12.196 (1.289)	146	21827	0.80000	0.8244	80.00- 120.00	100.00
12.203	12.196 (1.290)	148	13524			33.21- 93.21	61.96
12.196	12.196 (1.289)	111	9335			11.31- 71.31	42.77
196 1,4-Dichlorobenzene					CAS #: 106-46-7		
12.311	12.311 (1.301)	146	22077	0.80000	0.8252	80.00- 120.00	100.00
12.311	12.311 (1.301)	148	13735			33.90- 93.90	62.21
12.311	12.311 (1.301)	111	9361			9.45- 69.45	42.40
199 alpha-Chlorotoluene					CAS #: 100-44-7		
12.461	12.461 (1.317)	91	28531	0.80000	0.7766	80.00- 120.00	100.00
12.461	12.461 (1.317)	126	7255			0.00- 53.26	25.43
201 Undecane					CAS #: 1120-21-4		
12.640	12.640 (1.336)	57	35643	0.80000	0.8594	80.00- 120.00	100.00
12.640	12.640 (1.336)	43	32820			58.12- 118.12	92.08
202 Butylbenzene					CAS #: 104-51-8		
12.626	12.626 (1.335)	134	11054	0.80000	0.8266	80.00- 120.00	100.00
12.626	12.626 (1.335)	91	36768			314.79- 374.79	332.62
12.626	12.626 (1.335)	92	18539			154.29- 214.29	167.71
204 1,2-Dichlorobenzene					CAS #: 95-50-1		
12.733	12.741 (1.346)	146	20836	0.80000	0.8026	80.00- 120.00	100.00
12.733	12.741 (1.346)	148	14179			33.84- 93.84	68.05
12.733	12.741 (1.346)	111	9568			12.73- 72.73	45.92
207 Dodecane					CAS #: 112-40-3		
13.801	13.801 (1.459)	57	25429	0.99000	0.7736	80.00- 120.00	100.00
13.801	13.801 (1.459)	43	20311			52.87- 112.87	79.87
213 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
14.467	14.467 (1.529)	180	17480	1.01000	0.9113	80.00- 120.00	100.00
14.467	14.467 (1.529)	182	17289			65.33- 125.33	98.91
215 Hexachlorobutadiene					CAS #: 87-68-3		
14.581	14.582 (1.541)	225	11980	1.03000	0.8875	80.00- 120.00	100.00

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
215 Hexachlorobutadiene (continued)							
14.581	14.582 (1.541)	223	7605			33.17- 93.17	63.48
216 Naphthalene					CAS #: 91-20-3		
14.761	14.768 (1.560)	128	5130	0.10000	0.1046	80.00- 120.00	100.00(a)
14.761	14.768 (1.560)	127	1046			0.00- 42.88	20.39
222 1,2,3-Trichlorobenzene					CAS #: 87-61-6		
15.069	15.069 (1.593)	180	15919	1.06000	0.9388	80.00- 120.00	100.00
15.069	15.069 (1.593)	182	15376			65.75- 125.75	96.59
15.069	15.069 (1.593)	145	5239			5.23- 65.23	32.91

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p051904.d
Lab Smp Id: ICAL Level 3
Analysis Type: VOA
Quant Type: ISTD
Operator: LD
Method File: /chem/msdp.i/19MAY21.b/p21q0519a.m
Misc Info: 0.8ppbv (5.0ppbv)

Calibration Date: 19-MAY-2021
Calibration Time: 15:55
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	158810	95286	222334	165114	3.97
108 1,4-Difluorobenze	597103	358262	835944	606184	1.52
153 Chlorobenzene-d5	587747	352648	822846	589752	0.34

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.78	5.45	6.11	5.78	-0.00
108 1,4-Difluorobenze	6.66	6.33	6.99	6.66	-0.00
153 Chlorobenzene-d5	9.46	9.13	9.79	9.46	-0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msdp.i/19MAY21.b/p051904.d

Date : 19-MAY-2021 14:02

Client ID:

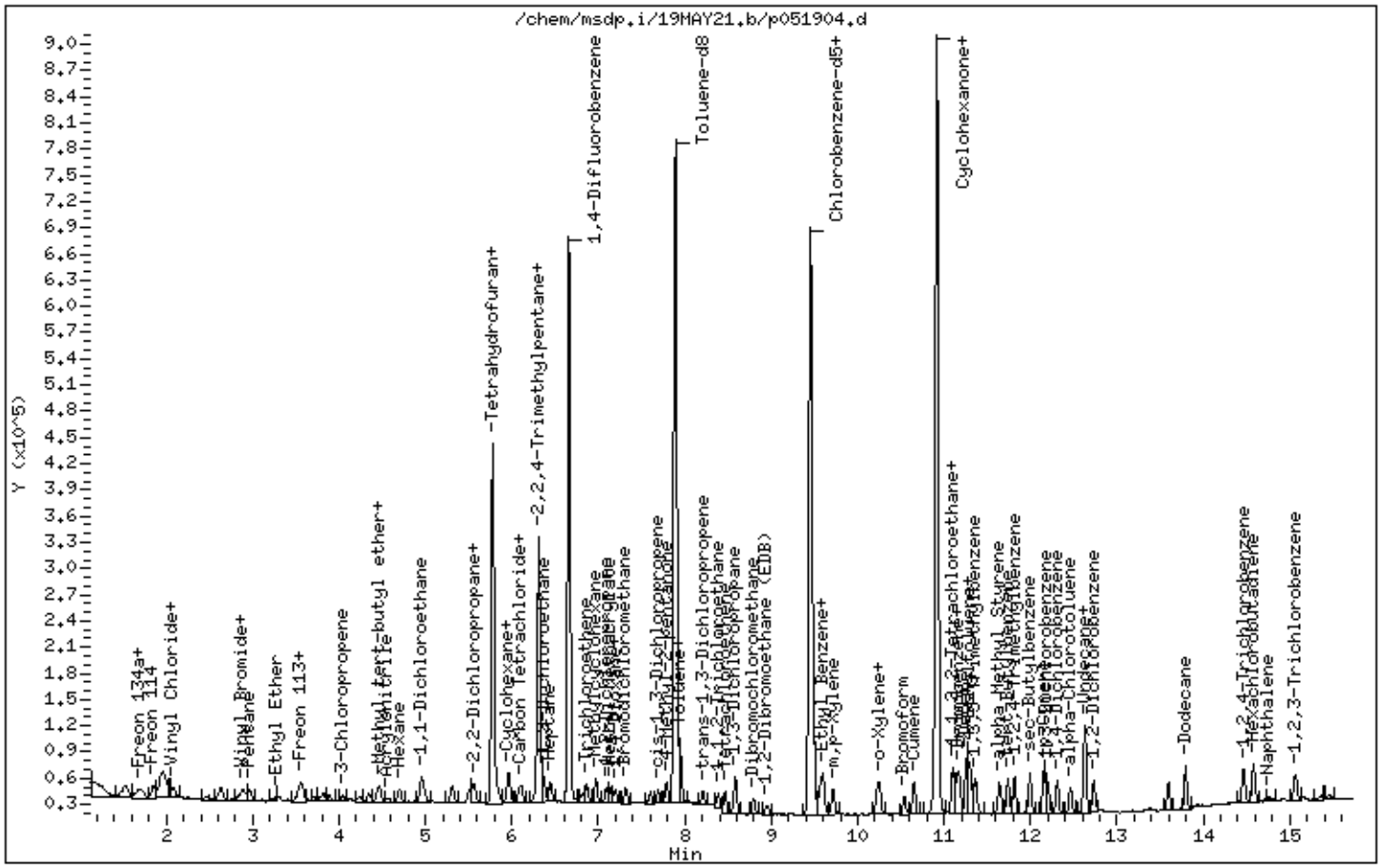
Instrument: msdp.i

Sample Info: 32mL 3018-2045

Operator: LD

Column phase: RTX-624

Column diameter: 0.25



US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/19MAY21.b/p051915.d
Lab Smp Id: ICAL Level 3
Inj Date : 19-MAY-2021 19:45
Operator : gh Inst ID: msdp.i
Smp Info : 32mL 3018-1928
Misc Info : 0.8ppbv (5.0ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/19MAY21.b/p21q0519a.m
Meth Date : 20-May-2021 09:50 lk8g Quant Type: ISTD
Cal Date : 19-MAY-2021 19:45 Cal File: p051915.d
Als bottle: 2 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT20spICAL.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 90 Bromochloromethane					CAS #: 74-97-5		
5.778	5.778 (1.000)	130	164344	25.0000		80.00- 120.00	100.00
5.778	5.778 (1.000)	128	125886			48.23- 108.23	76.60
5.778	5.778 (1.000)	49	290825			150.57- 210.57	176.96
* 108 1,4-Difluorobenzene					CAS #: 540-36-3		
6.659	6.659 (1.000)	114	606504	25.0000		80.00- 120.00	100.00
6.659	6.659 (1.000)	88	95686			0.00- 45.71	15.78
* 153 Chlorobenzene-d5					CAS #: 3114-55-4		
9.460	9.460 (1.000)	117	593084	25.0000		80.00- 120.00	100.00
9.453	9.460 (1.000)	82	324813			23.78- 83.78	54.77
3 Freon 143a					CAS #: 420-46-2		
1.591	1.590 (0.275)	65	3384	0.80000	1.014	80.00- 120.00	100.00(a)
1.591	1.590 (0.275)	69	8253			243.50- 303.50	243.88
1.591	1.590 (0.275)	64	1419			0.00- 54.06	41.93
6 Propane					CAS #: 74-98-6		
1.674	1.674 (0.290)	43	3721	0.80000	1.216	80.00- 120.00	100.00(a)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
	6 Propane (continued)						
1.674	1.674 (0.290)	39	2558			34.98- 94.98	68.74
1.688	1.674 (0.292)	41	1187			25.22- 85.22	31.90
	13 Freon 142b				CAS #: 75-68-3		
1.884	1.884 (0.326)	65	14331	0.80000	0.8483	80.00- 120.00	100.00(a)
1.884	1.884 (0.326)	45	4817			0.00- 59.77	33.61
	36 1-Pentene				CAS #: 109-67-1		
2.898	2.906 (0.502)	55	8373	0.80000	0.7641	80.00- 120.00	100.00(a)
2.898	2.906 (0.502)	42	10665			105.17- 165.17	127.37
	40 Freon 123a				CAS #: 354-23-4		
3.378	3.385 (0.585)	117	8954	0.80000	0.8423	80.00- 120.00	100.00(a)
3.378	3.378 (0.585)	67	10000			104.69- 164.69	111.68
	41 Freon 123				CAS #: 306-83-2		
3.479	3.479 (0.602)	83	12043	0.80000	0.8181	80.00- 120.00	100.00(a)
3.486	3.479 (0.603)	133	2878			0.00- 50.87	23.90
3.472	3.479 (0.601)	85	7657			36.08- 96.08	63.58
	55 Cyclopentene				CAS #: 142-29-0		
4.066	4.073 (0.704)	67	13033	0.80000	0.8236	80.00- 120.00	100.00(a)
4.073	4.073 (0.705)	68	5570			6.76- 66.76	42.74
4.073	4.073 (0.705)	53	4098			0.00- 57.54	31.44
	56 Methyl Acetate				CAS #: 79-20-9		
4.080	4.073 (0.706)	43	13892	0.80000	0.7505	80.00- 120.00	100.00(a)
4.073	4.073 (0.705)	74	2356			0.00- 44.13	16.96
	74 Chloroprene				CAS #: 126-99-8		
5.019	5.019 (0.869)	53	10679	0.80000	0.7298	80.00- 120.00	100.00(a)
5.019	5.019 (0.869)	88	4129			9.21- 69.21	38.66
5.019	5.019 (0.869)	50	3511			0.00- 54.25	32.88
	75 1-Propanol				CAS #: 71-23-8		
5.090	5.083 (0.881)	59	1961	0.80000	0.8598	80.00- 120.00	100.00(a)
5.090	5.083 (0.881)	42	1356			63.23- 123.23	69.15
5.090	5.083 (0.881)	41	964			24.74- 84.74	49.16
	88 Methyl Acrylate				CAS #: 96-33-3		
5.628	5.620 (0.974)	55	14529	0.80000	0.7451	80.00- 120.00	100.00(a)
5.620	5.620 (0.973)	85	2658			0.00- 41.28	18.29
5.620	5.620 (0.973)	58	1084			0.00- 38.22	7.46
	103 Isobutanol				CAS #: 78-83-1		
6.244	6.244 (1.081)	39	1516	0.80000	0.6268	80.00- 120.00	100.00(a)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
103 Isobutanol (continued)							
6.244	6.244 (1.081)	43	6586			448.18- 508.18	434.43
6.244	6.244 (1.081)	41	6296			299.99- 359.99	415.30
113 Ethyl acrylate					CAS #: 140-88-5		
6.938	6.938 (0.733)	99	1140	0.80000	0.8059	80.00- 120.00	100.00(a)
6.938	6.938 (0.733)	45	2310			149.95- 209.95	202.63
6.938	6.938 (0.733)	55	19701			1849.07-1909.07	1728.16
115 2-Pentanone					CAS #: 107-87-9		
7.032	7.031 (0.743)	43	24123	0.80000	0.7933	80.00- 120.00	100.00(a)
7.032	7.031 (0.743)	58	1837			0.00- 37.44	7.62
7.032	7.031 (0.743)	86	3321			0.00- 42.78	13.77
145 Butyl Acetate					CAS #: 123-86-4		
8.665	8.665 (1.301)	56	12701	0.80000	0.8216	80.00- 120.00	100.00(a)
8.665	8.665 (1.301)	73	3929			0.00- 59.10	30.93
8.665	8.657 (1.301)	43	29172			215.30- 275.30	229.68
157 1,1,1,2-Tetrachloroethane					CAS #: 630-20-6		
9.596	9.596 (1.014)	131	10131	0.80000	0.7736	80.00- 120.00	100.00(a)
9.460	9.460 (1.000)	117	593084			57.42- 117.42	5854.15
9.596	9.596 (1.014)	95	4021			5.70- 65.70	39.69
166 2-Heptanone					CAS #: 110-43-0		
10.362	10.362 (1.793)	58	19243	0.80000	0.7954	80.00- 120.00	100.00(a)
10.362	10.362 (1.793)	43	30387			136.03- 196.03	157.91
172 D-Limonene					CAS #: 5989-27-5		
12.089	12.089 (1.278)	68	6734	0.80000	0.6275	80.00- 120.00	100.00(a)
12.089	12.089 (1.278)	93	4720			39.41- 99.41	70.09
186 4-Chlorotoluene					CAS #: 106-43-4		
11.444	11.444 (1.210)	126	9434	0.80000	0.7705	80.00- 120.00	100.00(a)
11.444	11.444 (1.210)	91	29750			295.02- 355.02	315.35
11.437	11.444 (1.209)	63	4126			11.82- 71.82	43.74
197 1,2,3-Trimethylbenzene					CAS #: 526-73-8		
12.318	12.318 (1.302)	120	14202	0.80000	0.8022	80.00- 120.00	100.00(a)
12.318	12.318 (1.302)	105	30046			192.40- 252.40	211.56
12.318	12.318 (1.302)	77	4952			0.00- 54.69	34.87
205 Hexachloroethane					CAS #: 67-72-1		
12.970	12.970 (1.371)	201	4732	0.80000	0.7912	80.00- 120.00	100.00(a)
12.963	12.970 (1.370)	117	7064			102.99- 162.99	149.28

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
208 1,3,5-Trichlorobenzene					CAS #: 108-70-3		
13.758	13.758 (1.454)	180	19960	0.80000	0.7958	80.00- 120.00	100.00(a)
13.758	13.758 (1.454)	182	18425			65.24- 125.24	92.31
210 alpha-Pinene					CAS #: 80-56-8		
10.599	10.599 (1.120)	93	17650	0.80000	0.7612	80.00- 120.00	100.00(a)
10.599	10.599 (1.120)	77	6081			0.00- 58.21	34.45
214 beta-Pinene					CAS #: 127-91-3		
11.423	11.422 (1.207)	93	9306	0.80000	0.6884	80.00- 120.00	100.00(a)
11.444	11.444 (1.210)	91	29750			153.57- 213.57	319.69

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p051915.d
Lab Smp Id: ICAL Level 3
Analysis Type: VOA
Quant Type: ISTD
Operator: gh
Method File: /chem/msdp.i/19MAY21.b/p21q0519a.m
Misc Info: 0.8ppbv (5.0ppbv)

Calibration Date: 19-MAY-2021
Calibration Time: 15:55
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	158810	95286	222334	164344	3.48
108 1,4-Difluorobenze	597103	358262	835944	606504	1.57
153 Chlorobenzene-d5	587747	352648	822846	593084	0.91

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.78	5.45	6.11	5.78	-0.00
108 1,4-Difluorobenze	6.66	6.33	6.99	6.66	-0.00
153 Chlorobenzene-d5	9.46	9.13	9.79	9.46	-0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msdp.i/19MAY21.b/p051915.d

Date : 19-MAY-2021 19:45

Client ID:

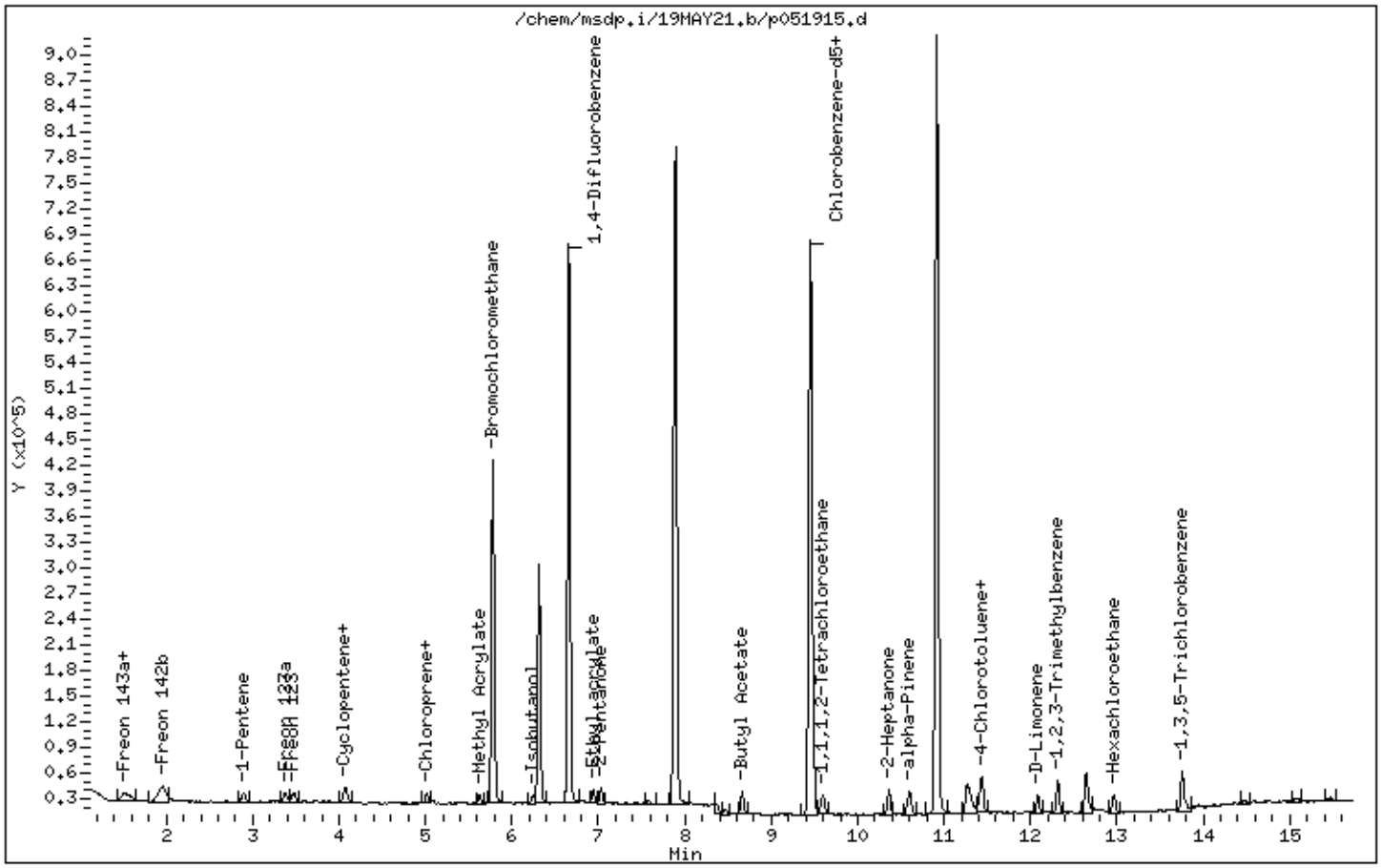
Instrument: msdp.i

Sample Info: 32mL 3018-1928

Operator: gh

Column phase: RTX-624

Column diameter: 0.25



US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/19MAY21.b/p051905.d
Lab Smp Id: ICAL Level 4
Inj Date : 19-MAY-2021 14:30
Operator : LD Inst ID: msdp.i
Smp Info : 80mL 3018-2045
Misc Info : 2.0ppbv (5.0ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/19MAY21.b/p21q0519a.m
Meth Date : 20-May-2021 09:50 lk8g Quant Type: ISTD
Cal Date : 19-MAY-2021 20:13 Cal File: p051916.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT20ICAL.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
4 Freon 134a					CAS #: 811-97-2		
1.646	1.633 (0.285)	83	10752	2.00000	2.113	80.00- 120.00	100.00
1.646	1.633 (0.285)	69	9430			59.44- 119.44	87.70
1.744	1.745 (0.302)	51	44872			419.06- 479.06	417.34
5 Propylene					CAS #: 115-07-1		
1.674	1.675 (0.290)	41	16628	2.00000	2.178	80.00- 120.00	100.00
1.674	1.675 (0.290)	42	9737			35.28- 95.28	58.56
1.674	1.675 (0.290)	39	9475			38.35- 98.35	56.98
7 1,1-Difluoroethane					CAS #: 75-37-6		
1.702	1.703 (0.295)	65	9119	2.00000	2.248	80.00- 120.00	100.00
1.744	1.745 (0.302)	51	44872			597.63- 657.63	492.07
1.702	1.703 (0.295)	47	4376			33.72- 93.72	47.99
8 Freon 12					CAS #: 75-71-8		
1.716	1.717 (0.297)	85	28857	2.00000	2.119	80.00- 120.00	100.00
1.716	1.717 (0.297)	87	9809			2.37- 62.37	33.99
9 Chlorodifluoromethane					CAS #: 75-45-6		
1.744	1.745 (0.302)	67	2775	2.00000	2.050	80.00- 120.00	100.00

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
9 Chlorodifluoromethane (continued)							
1.744	1.745 (0.302)	51	44872			1501.01-1561.01	1617.01
10 Freon 114					CAS #: 76-14-2		
1.856	1.856 (0.321)	135	30051	2.00000	2.103	80.00- 120.00	100.00
1.856	1.856 (0.321)	137	10561			2.30- 62.30	35.14
12 Isobutane					CAS #: 75-28-5		
1.870	1.870 (0.324)	43	37601	2.00000	2.238	80.00- 120.00	100.00
1.870	1.870 (0.324)	42	10224			2.44- 62.44	27.19
1.870	1.856 (0.324)	58	1126			0.00- 33.36	2.99
15 Chloromethane					CAS #: 74-87-3		
1.940	1.940 (0.336)	50	20795	2.00000	2.143	80.00- 120.00	100.00
1.940	1.940 (0.336)	52	6777			0.00- 56.26	32.59
18 Butane					CAS #: 106-97-8		
2.025	2.025 (0.350)	58	4684	2.00000	2.428	80.00- 120.00	100.00
2.025	2.025 (0.350)	43	30160			823.29- 883.29	643.89
19 Vinyl Chloride					CAS #: 75-01-4		
2.068	2.068 (0.358)	62	22935	2.00000	2.214	80.00- 120.00	100.00
2.075	2.068 (0.359)	64	4016			0.00- 59.69	17.51
20 1,3-Butadiene					CAS #: 106-99-0		
2.089	2.089 (0.362)	54	14209	2.00000	1.851	80.00- 120.00	100.00
2.089	2.089 (0.362)	39	14860			52.37- 112.37	104.58
24 Bromomethane					CAS #: 74-83-9		
2.483	2.483 (0.430)	94	15345	2.00000	2.288	80.00- 120.00	100.00
2.476	2.483 (0.428)	96	14452			64.07- 124.07	94.18
30 Chloroethane					CAS #: 75-00-3		
2.612	2.612 (0.452)	64	7064	2.00000	2.048	80.00- 120.00	100.00
2.619	2.612 (0.453)	66	2424			0.04- 60.04	34.31
2.619	2.612 (0.453)	49	2630			4.54- 64.54	37.23
31 Isopentane					CAS #: 78-78-4		
2.633	2.634 (0.456)	43	21473	2.00000	2.019	80.00- 120.00	100.00
2.633	2.634 (0.456)	57	14410			34.12- 94.12	67.11
32 Vinyl Bromide					CAS #: 593-60-2		
2.848	2.841 (0.493)	106	12788	2.00000	2.173	80.00- 120.00	100.00
2.841	2.841 (0.492)	108	11825			69.27- 129.27	92.47
33 Freon 11					CAS #: 75-69-4		
2.884	2.884 (0.499)	101	29478	2.00000	1.982	80.00- 120.00	100.00

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
33 Freon 11 (continued)							
2.884	2.884 (0.499)	103	21023			34.72- 94.72	71.32
34 Dichlorofluoromethane					CAS #: 75-43-4		
2.898	2.899 (0.502)	67	26413	2.00000	2.016	80.00- 120.00	100.00
2.891	2.899 (0.500)	69	8532			0.84- 60.84	32.30
35 Pentane					CAS #: 109-66-0		
2.970	2.970 (0.514)	43	36199	2.00000	2.019	80.00- 120.00	100.00
2.970	2.970 (0.514)	57	5481			0.00- 44.98	15.14
2.970	2.970 (0.514)	72	2569			0.00- 37.39	7.10
38 Ethyl Ether					CAS #: 60-29-7		
3.292	3.285 (0.570)	74	6103	2.00000	2.113	80.00- 120.00	100.00
3.285	3.285 (0.569)	59	11984			163.46- 223.46	196.36
3.285	3.285 (0.569)	45	17007			250.40- 310.40	278.67
39 Ethanol					CAS #: 64-17-5		
3.249	3.242 (0.562)	46	3513	2.00000	2.141	80.00- 120.00	100.00
3.285	3.242 (0.569)	45	17032			511.19- 571.19	484.83
42 Acrolein					CAS #: 107-02-8		
3.536	3.529 (0.612)	55	5593	2.00000	2.070	80.00- 120.00	100.00
3.529	3.529 (0.611)	56	9027			111.10- 171.10	161.40
43 Freon 113					CAS #: 76-13-1		
3.550	3.550 (0.614)	151	22474	2.00000	2.051	80.00- 120.00	100.00
3.550	3.550 (0.614)	153	14485			33.56- 93.56	64.45
3.550	3.550 (0.614)	101	27010			89.21- 149.21	120.18
44 1,1-Dichloroethene					CAS #: 75-35-4		
3.579	3.579 (0.619)	96	12551	2.00000	1.903	80.00- 120.00	100.00
3.579	3.579 (0.619)	98	8404			34.02- 94.02	66.96
3.579	3.579 (0.619)	61	26438			168.77- 228.77	210.64
47 Acetone					CAS #: 67-64-1		
3.715	3.708 (0.643)	58	9195	2.00000	2.141	80.00- 120.00	100.00
3.715	3.708 (0.643)	43	30176			302.95- 362.95	328.18
48 Carbon Disulfide					CAS #: 75-15-0		
3.822	3.823 (0.662)	76	36134	2.00000	2.058	80.00- 120.00	100.00
49 Iodomethane					CAS #: 74-88-4		
3.794	3.794 (0.657)	142	14456	2.00000	1.356	80.00- 120.00	100.00(a)
3.794	3.794 (0.657)	127	6010			12.22- 72.22	41.57

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
52 2-Propanol					CAS #: 67-63-0		
3.894	3.887 (0.674)	45	34496	2.00000	2.040	80.00- 120.00	100.00
3.894	3.887 (0.674)	43	6922			0.00- 47.19	20.07
54 3-Chloropropene					CAS #: 107-05-1		
4.045	4.052 (0.700)	76	6575	2.00000	2.162	80.00- 120.00	100.00
4.045	4.052 (0.700)	41	25612			396.19- 456.19	389.54
57 Acetonitrile					CAS #: 75-05-8		
4.131	4.123 (0.715)	41	15059	2.00000	1.986	80.00- 120.00	100.00
4.131	4.123 (0.715)	40	9224			20.95- 80.95	61.25
4.131	4.123 (0.715)	38	2726			0.00- 41.17	18.10
59 Methylene Chloride					CAS #: 75-09-2		
4.231	4.238 (0.732)	49	21233	2.00000	2.009	80.00- 120.00	100.00
4.238	4.238 (0.733)	84	11130			22.03- 82.03	52.42
4.238	4.238 (0.733)	51	6579			0.18- 60.18	30.98
62 tert-Butyl alcohol					CAS #: 75-65-0		
4.345	4.338 (0.752)	59	40925	2.00000	2.099	80.00- 120.00	100.00
4.345	4.338 (0.752)	41	8206			0.00- 51.11	20.05
4.338	4.338 (0.751)	57	4155			0.00- 40.49	10.15
63 Methyl tert-butyl ether					CAS #: 1634-04-4		
4.453	4.446 (0.771)	73	38812	2.00000	1.981	80.00- 120.00	100.00
4.453	4.446 (0.771)	57	12311			3.10- 63.10	31.72
4.453	4.446 (0.771)	41	12889			1.28- 61.28	33.21
64 trans-1,2-Dichloroethene					CAS #: 156-60-5		
4.474	4.482 (0.774)	98	9180	2.00000	2.060	80.00- 120.00	100.00
4.474	4.482 (0.774)	61	24720			255.84- 315.84	269.28
4.474	4.482 (0.774)	96	14713			127.59- 187.59	160.27
66 Acrylonitrile					CAS #: 107-13-1		
4.560	4.560 (0.789)	52	13138	2.00000	2.031	80.00- 120.00	100.00
4.560	4.560 (0.789)	53	14824			88.05- 148.05	112.83
67 Hexane					CAS #: 110-54-3		
4.696	4.697 (0.813)	57	31248	2.00000	2.036	80.00- 120.00	100.00
4.696	4.697 (0.813)	43	21924			37.52- 97.52	70.16
4.696	4.697 (0.813)	86	3562			0.00- 41.48	11.40
71 1,1-Dichloroethane					CAS #: 75-34-3		
4.961	4.962 (0.859)	63	27529	2.00000	2.029	80.00- 120.00	100.00
4.961	4.962 (0.859)	65	8205			0.00- 59.70	29.80

					AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
RT	EXP RT (REL RT)	MASS	RESPONSE					
72 Isopropyl ether						CAS #: 108-20-3		
4.954	4.954 (0.857)	45	71591	2.00000		1.988	80.00- 120.00	100.00(a)
4.954	4.954 (0.857)	87	13182				0.00- 48.18	18.41
4.954	4.954 (0.857)	59	8012				0.00- 40.15	11.19
73 Vinyl Acetate						CAS #: 108-05-4		
4.997	4.997 (0.865)	86	3538	2.00000		2.042	80.00- 120.00	100.00
4.997	4.997 (0.865)	43	83098				2432.48-2492.48	2348.73
79 Ethyl-tert-butyl ether						CAS #: 637-92-3		
5.312	5.305 (0.919)	59	61838	2.00000		1.988	80.00- 120.00	100.00(a)
5.312	5.305 (0.919)	87	18730				1.00- 61.00	30.29
5.312	5.305 (0.919)	41	11608				0.00- 48.73	18.77
84 2,2-Dichloropropane						CAS #: 594-20-7		
5.506	5.506 (0.953)	77	23271	2.00000		2.002	80.00- 120.00	100.00
5.506	5.506 (0.953)	79	7682				2.28- 62.28	33.01
5.506	5.506 (0.953)	97	5978				0.00- 53.93	25.69
85 cis-1,2-Dichloroethene						CAS #: 156-59-2		
5.549	5.549 (0.960)	98	9213	2.00000		2.082	80.00- 120.00	100.00
5.542	5.549 (0.959)	96	15160				125.75- 185.75	164.55
5.542	5.549 (0.959)	61	33574				332.40- 392.40	364.42
86 2-Butanone						CAS #: 78-93-3		
5.556	5.556 (0.962)	72	7496	2.00000		2.089	80.00- 120.00	100.00
5.570	5.556 (0.964)	43	90870				1214.50-1274.50	1212.25
5.556	5.556 (0.962)	57	3054				14.68- 74.68	40.74
87 Ethyl Acetate						CAS #: 141-78-6		
5.577	5.570 (0.965)	45	7299	2.00000		2.045	80.00- 120.00	100.00
5.542	5.549 (0.959)	61	33574				452.04- 512.04	459.98
5.570	5.570 (0.964)	70	4007				22.77- 82.77	54.90
89 Tetrahydrofuran						CAS #: 109-99-9		
5.778	5.771 (1.000)	42	24973	2.00000		2.047	80.00- 120.00	100.00
5.778	5.771 (1.000)	71	6164				0.00- 55.82	24.68
5.778	5.771 (1.000)	72	6913				0.00- 57.59	27.68
* 90 Bromochloromethane						CAS #: 74-97-5		
5.778	5.778 (1.000)	130	159831	25.0000			80.00- 120.00	100.00
5.778	5.778 (1.000)	128	126227				48.23- 108.23	78.98
5.778	5.778 (1.000)	49	292527				150.57- 210.57	183.02
92 Chloroform						CAS #: 67-66-3		
5.835	5.835 (1.010)	83	27594	2.00000		2.032	80.00- 120.00	100.00

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
92 Chloroform (continued)							
5.835	5.835 (1.010)	85	18631			34.70- 94.70	67.52
94 Cyclohexane					CAS #: 110-82-7		
5.957	5.957 (1.031)	84	19272	2.00000	2.021	80.00- 120.00	100.00
5.957	5.957 (1.031)	56	34982			142.57- 202.57	181.52
5.957	5.957 (1.031)	41	20285			62.09- 122.09	105.26
96 1,1,1-Trichloroethane					CAS #: 71-55-6		
5.964	5.972 (1.032)	97	31014	2.00000	2.006	80.00- 120.00	100.00
5.971	5.972 (1.033)	99	19587			34.02- 94.02	63.16
97 Carbon Tetrachloride					CAS #: 56-23-5		
6.086	6.086 (1.053)	119	28698	2.00000	1.977	80.00- 120.00	100.00
6.086	6.086 (1.053)	117	27861			70.64- 130.64	97.08
99 1,1-Dichloropropene					CAS #: 563-58-6		
6.115	6.115 (0.918)	110	8669	2.00000	2.064	80.00- 120.00	100.00
6.115	6.115 (0.918)	75	21304			226.85- 286.85	245.75
101 2,2,4-Trimethylpentane					CAS #: 540-84-1		
6.287	6.280 (1.088)	57	105858	2.00000	1.977	80.00- 120.00	100.00
6.279	6.280 (1.087)	56	34121			2.24- 62.24	32.23
6.287	6.280 (1.088)	41	25646			0.00- 54.39	24.23
102 Benzene					CAS #: 71-43-2		
6.301	6.301 (0.946)	78	42719	2.00000	2.114	80.00- 120.00	100.00
6.301	6.301 (0.946)	77	9426			0.00- 52.90	22.07
$ 104 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
6.308	6.308 (1.092)	65	213845	25.0000	25.226	80.00- 120.00	100.00
6.308	6.308 (1.092)	67	109056			27.21- 87.21	51.00
105 tert-Amyl methyl ether					CAS #: 994-05-8		
6.358	6.358 (0.955)	87	12080	2.00000	2.059	80.00- 120.00	100.00
6.358	6.358 (0.955)	73	45185			372.79- 432.79	374.05
6.358	6.358 (0.955)	55	15451			112.09- 172.09	127.91
106 1,2-Dichloroethane					CAS #: 107-06-2		
6.380	6.380 (0.958)	62	21692	2.00000	2.056	80.00- 120.00	100.00
6.380	6.380 (0.958)	64	7191			0.79- 60.79	33.15
107 Heptane					CAS #: 142-82-5		
6.444	6.444 (0.968)	71	15826	2.00000	2.037	80.00- 120.00	100.00
6.444	6.444 (0.968)	43	42456			226.53- 286.53	268.27
6.444	6.444 (0.968)	57	22790			100.85- 160.85	144.00

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 108 1,4-Difluorobenzene						CAS #: 540-36-3	
6.659	6.659 (1.000)	114	608981	25.0000		80.00- 120.00	100.00
6.659	6.659 (1.000)	88	97098			0.00- 45.71	15.94
110 n-Butanol						CAS #: 71-36-3	
6.817	6.810 (1.024)	56	13920	2.00000	1.933	80.00- 120.00	100.00
6.817	6.810 (1.024)	41	11206			40.99- 100.99	80.50
6.817	6.810 (1.024)	43	8308			27.38- 87.38	59.68
111 Trichloroethene						CAS #: 79-01-6	
6.867	6.867 (1.031)	95	20090	2.00000	2.063	80.00- 120.00	100.00
6.867	6.867 (1.031)	130	21639			76.29- 136.29	107.71
6.867	6.867 (1.031)	97	12122			33.63- 93.63	60.34
114 1,2-Dichloropropane						CAS #: 78-87-5	
7.096	7.089 (1.066)	63	20821	2.00000	2.005	80.00- 120.00	100.00
7.089	7.089 (1.065)	62	14576			41.07- 101.07	70.01
7.096	7.089 (1.066)	41	10584			22.53- 82.53	50.83
116 Methyl Methacrylate						CAS #: 80-62-6	
7.139	7.132 (0.755)	69	16454	2.00000	1.977	80.00- 120.00	100.00
7.132	7.132 (0.754)	41	33345			179.84- 239.84	202.66
7.139	7.139 (0.755)	100	6482			9.59- 69.59	39.39
117 1,4-Dioxane						CAS #: 123-91-1	
7.182	7.175 (1.079)	88	11643	2.00000	2.092	80.00- 120.00	100.00
7.175	7.175 (1.077)	58	11397			68.28- 128.28	97.89
7.175	7.175 (1.077)	57	4191			2.68- 62.68	36.00
118 Dibromomethane						CAS #: 74-95-3	
7.203	7.204 (0.761)	174	19142	2.00000	2.126	80.00- 120.00	100.00
7.203	7.204 (0.761)	93	16978			60.09- 120.09	88.70
7.203	7.204 (0.761)	95	14808			48.38- 108.38	77.36
122 Bromodichloromethane						CAS #: 75-27-4	
7.318	7.318 (1.099)	83	31009	2.00000	2.066	80.00- 120.00	100.00
7.318	7.318 (1.099)	85	19794			35.24- 95.24	63.83
126 cis-1,3-Dichloropropene						CAS #: 10061-01-5	
7.691	7.691 (1.155)	75	25607	2.00000	2.035	80.00- 120.00	100.00
7.691	7.691 (1.155)	77	8122			2.42- 62.42	31.72
7.691	7.691 (1.155)	39	17386			37.16- 97.16	67.90
127 Methylcyclohexane						CAS #: 108-87-2	
6.974	6.974 (1.047)	83	26965	2.00000	1.892	80.00- 120.00	100.00(a)
6.974	6.974 (1.047)	98	13600			15.78- 75.78	50.44

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
127 Methylcyclohexane (continued)							
6.974	6.974 (1.047)	55	34696			84.64- 144.64	128.67
131 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.798	7.791 (1.171)	58	20235	2.00000	1.954	80.00- 120.00	100.00
7.791	7.791 (1.170)	43	55273			242.35- 302.35	273.16
7.798	7.791 (1.171)	85	7479			3.24- 63.24	36.96
$ 134 Toluene-d8					CAS #: 2037-26-5		
7.891	7.891 (1.185)	98	665455	25.0000	25.210	80.00- 120.00	100.00
7.891	7.891 (1.185)	70	77094			0.00- 40.44	11.59
7.891	7.891 (1.185)	100	431576			34.95- 94.95	64.85
137 Toluene					CAS #: 108-88-3		
7.948	7.949 (1.194)	91	56064	2.00000	1.997	80.00- 120.00	100.00
7.948	7.949 (1.194)	92	34906			28.38- 88.38	62.26
136 Octane					CAS #: 111-65-9		
7.948	7.949 (1.194)	57	22118	2.00000	1.902	80.00- 120.00	100.00
7.948	7.949 (1.194)	85	18563			56.00- 116.00	83.93
7.941	7.949 (1.193)	43	60251			228.66- 288.66	272.41
139 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
8.213	8.214 (0.868)	75	24394	2.00000	2.042	80.00- 120.00	100.00
8.213	8.214 (0.868)	77	8513			1.24- 61.24	34.90
8.213	8.214 (0.868)	39	16646			34.11- 94.11	68.24
141 1,1,2-Trichloroethane					CAS #: 79-00-5		
8.400	8.400 (0.888)	97	19362	2.00000	2.008	80.00- 120.00	100.00
8.400	8.400 (0.888)	99	12564			31.96- 91.96	64.89
8.400	8.400 (0.888)	83	17346			52.93- 112.93	89.59
142 Tetrachloroethene					CAS #: 127-18-4		
8.464	8.464 (0.895)	166	28170	2.00000	1.983	80.00- 120.00	100.00
8.464	8.464 (0.895)	129	21640			47.84- 107.84	76.82
8.464	8.464 (0.895)	131	20810			45.29- 105.29	73.87
143 2-Hexanone					CAS #: 591-78-6		
8.586	8.586 (0.908)	58	27816	2.00000	1.995	80.00- 120.00	100.00
8.586	8.586 (0.908)	43	55470			162.87- 222.87	199.42
8.586	8.586 (0.908)	100	4450			0.00- 45.94	16.00
144 1,3-Dichloropropane					CAS #: 142-28-9		
8.579	8.579 (1.288)	76	27760	2.00000	2.102	80.00- 120.00	100.00
8.579	8.579 (1.288)	41	35478			94.99- 154.99	127.80
8.579	8.579 (1.288)	78	9229			2.05- 62.05	33.25

				AMOUNTS				
					CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE		(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========		=======	=======	==========	=====
146 Dibromochloromethane						CAS #: 124-48-1		
8.801	8.801 (0.930)	129	36760	2.00000		1.973	80.00- 120.00	100.00
8.801	8.801 (0.930)	127	28370				47.45- 107.45	77.18
148 1,2-Dibromoethane (EDB)						CAS #: 106-93-4		
8.951	8.951 (0.946)	107	32272	2.00000		2.011	80.00- 120.00	100.00
8.951	8.951 (0.946)	109	30370				64.21- 124.21	94.11
151 1-Bromo-2-Chloroethane						CAS #: 107-04-0		
7.605	7.605 (1.142)	63	38340	2.00000		2.022	80.00- 120.00	100.00
7.605	7.605 (1.142)	65	11961				0.00- 59.64	31.20
7.605	7.605 (1.142)	144	3836				0.00- 39.63	10.01
* 153 Chlorobenzene-d5						CAS #: 3114-55-4		
9.460	9.460 (1.000)	117	602501	25.0000			80.00- 120.00	100.00
9.460	9.460 (1.000)	82	328882				23.78- 83.78	54.59
154 Chlorobenzene						CAS #: 108-90-7		
9.496	9.496 (1.004)	112	48343	2.00000		2.025	80.00- 120.00	100.00
9.496	9.496 (1.004)	114	15057				1.74- 61.74	31.15
9.496	9.496 (1.004)	77	32004				25.04- 85.04	66.20
155 Ethyl Benzene						CAS #: 100-41-4		
9.567	9.567 (1.011)	106	24932	2.00000		1.960	80.00- 120.00	100.00
9.567	9.567 (1.011)	91	76105				273.74- 333.74	305.25
156 Nonane						CAS #: 111-84-2		
9.596	9.596 (1.014)	43	63929	2.00000		1.973	80.00- 120.00	100.00
9.596	9.603 (1.014)	57	51732				54.16- 114.16	80.92
9.596	9.603 (1.014)	85	15047				0.00- 53.90	23.54
158 m,p-Xylene						CAS #: 108-38-3		
9.718	9.718 (1.027)	106	30801	2.00000		1.958	80.00- 120.00	100.00
9.718	9.718 (1.027)	91	61907				163.73- 223.73	200.99
164 o-Xylene						CAS #: 95-47-6		
10.226	10.226 (1.081)	106	31016	2.00000		2.047	80.00- 120.00	100.00
10.226	10.226 (1.081)	91	61477				177.45- 237.45	198.21
165 Styrene						CAS #: 100-42-5		
10.255	10.255 (1.084)	104	51582	2.00000		1.986	80.00- 120.00	100.00
10.255	10.255 (1.084)	78	24588				17.88- 77.88	47.67
167 Bromoform						CAS #: 75-25-2		
10.541	10.542 (1.114)	173	35253	2.00000		1.964	80.00- 120.00	100.00
10.549	10.542 (1.115)	171	18187				21.25- 81.25	51.59

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
168 Cumene					CAS #: 98-82-8		
10.649	10.649 (1.126)	105	92633	2.00000	1.959	80.00- 120.00	100.00
10.649	10.649 (1.126)	120	25468			0.00- 58.52	27.49
10.649	10.649 (1.126)	51	12337			0.00- 43.00	13.32
169 Cyclohexanone					CAS #: 108-94-1		
10.871	10.871 (1.149)	55	34971	2.00000	2.003	80.00- 120.00	100.00(a)
10.878	10.871 (1.150)	98	11080			1.94- 61.94	31.68
10.871	10.871 (1.149)	42	22417			37.89- 97.89	64.10
$ 170 4-Bromofluorobenzene					CAS #: 460-00-4		
10.921	10.921 (1.154)	174	386143	25.0000	25.034	80.00- 120.00	100.00
10.914	10.921 (1.154)	95	491927			95.92- 155.92	127.40
10.921	10.921 (1.154)	176	373529			66.89- 126.89	96.73
175 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
11.100	11.100 (1.173)	83	45589	2.00000	1.968	80.00- 120.00	100.00
11.107	11.100 (1.174)	85	30225			35.20- 95.20	66.30
177 Bromobenzene					CAS #: 108-86-1		
11.107	11.107 (1.174)	156	29228	2.00000	2.039	80.00- 120.00	100.00
11.107	11.107 (1.174)	158	27871			67.21- 127.21	95.36
11.179	11.179 (1.182)	77	16535			29.02- 89.02	56.57
178 Propylbenzene					CAS #: 103-65-1		
11.150	11.150 (1.179)	120	27541	2.00000	1.952	80.00- 120.00	100.00
11.150	11.150 (1.179)	91	110564			366.49- 426.49	401.45
11.150	11.150 (1.179)	105	4410			0.00- 44.85	16.01
179 1,2,3-Trichloropropane					CAS #: 96-18-4		
11.179	11.179 (1.182)	110	15487	2.00000	2.068	80.00- 120.00	100.00
11.179	11.179 (1.182)	75	44040			280.55- 340.55	284.37
11.100	11.100 (1.173)	61	6929			15.49- 75.49	44.74
181 trans-1,4-Dichloro-2-butene					CAS #: 110-57-6		
11.179	11.179 (1.182)	53	10130	2.00000	2.088	80.00- 120.00	100.00
11.179	11.179 (1.182)	89	7740			49.11- 109.11	76.41
11.179	11.179 (1.182)	75	44040			426.44- 486.44	434.75
182 Decane					CAS #: 124-18-5		
11.251	11.251 (1.189)	57	75743	2.00000	1.938	80.00- 120.00	100.00
11.251	11.251 (1.189)	71	21477			0.00- 57.66	28.36
11.258	11.258 (1.190)	142	2780			0.00- 34.09	3.67
183 4-Ethyltoluene					CAS #: 622-96-8		
11.286	11.287 (1.193)	120	30874	2.00000	2.017	80.00- 120.00	100.00

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
183 4-Ethyltoluene (continued)							
11.286	11.287 (1.193)	105	94572			284.55- 344.55	306.32
184 2-Chlorotoluene					CAS #: 95-49-8		
11.308	11.308 (1.195)	126	23935	2.00000	2.009	80.00- 120.00	100.00
11.308	11.308 (1.195)	91	81565			315.17- 375.17	340.78
11.301	11.301 (1.195)	65	12898			21.55- 81.55	53.89
185 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
11.365	11.365 (1.201)	120	40449	2.00000	1.939	80.00- 120.00	100.00
11.365	11.365 (1.201)	105	83373			164.93- 224.93	206.12
188 alpha Methyl Styrene					CAS #: 98-83-9		
11.645	11.645 (1.231)	118	42379	2.00000	2.012	80.00- 120.00	100.00
11.645	11.645 (1.231)	103	23377			25.30- 85.30	55.16
189 tert-Butylbenzene					CAS #: 98-06-6		
11.738	11.738 (1.241)	119	78389	2.00000	2.001	80.00- 120.00	100.00
11.738	11.738 (1.241)	134	18724			0.00- 54.25	23.89
11.738	11.738 (1.241)	91	46791			31.27- 91.27	59.69
190 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
11.816	11.817 (1.249)	105	78168	2.00000	1.959	80.00- 120.00	100.00
11.816	11.817 (1.249)	120	40414			19.05- 79.05	51.70
192 sec-Butylbenzene					CAS #: 135-98-8		
11.996	11.996 (1.268)	134	24394	2.00000	2.013	80.00- 120.00	100.00
11.996	11.996 (1.268)	105	113600			437.55- 497.55	465.69
11.996	11.996 (1.268)	91	17621			40.76- 100.76	72.23
194 p-Cymene					CAS #: 99-87-6		
12.160	12.160 (1.285)	119	104556	2.00000	1.942	80.00- 120.00	100.00
12.153	12.160 (1.285)	134	27205			0.00- 55.54	26.02
12.153	12.153 (1.285)	91	22499			0.00- 51.48	21.52
195 1,3-Dichlorobenzene					CAS #: 541-73-1		
12.196	12.196 (1.289)	146	55740	2.00000	2.016	80.00- 120.00	100.00
12.196	12.196 (1.289)	148	34699			33.21- 93.21	62.25
12.196	12.196 (1.289)	111	22480			11.31- 71.31	40.33
196 1,4-Dichlorobenzene					CAS #: 106-46-7		
12.311	12.311 (1.301)	146	54700	2.00000	1.976	80.00- 120.00	100.00
12.311	12.311 (1.301)	148	35545			33.90- 93.90	64.98
12.311	12.311 (1.301)	111	21710			9.45- 69.45	39.69
199 alpha-Chlorotoluene					CAS #: 100-44-7		
12.461	12.461 (1.317)	91	74656	2.00000	2.000	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
199 alpha-Chlorotoluene (continued)							
12.461	12.461 (1.317)	126	17192			0.00- 53.26	23.03
201 Undecane					CAS #: 1120-21-4		
12.640	12.640 (1.336)	57	87872	2.00000	1.994	80.00- 120.00	100.00
12.640	12.640 (1.336)	43	80279			58.12- 118.12	91.36
202 Butylbenzene					CAS #: 104-51-8		
12.626	12.626 (1.335)	134	28076	2.00000	2.018	80.00- 120.00	100.00
12.626	12.626 (1.335)	91	92470			314.79- 374.79	329.36
12.626	12.626 (1.335)	92	50010			154.29- 214.29	178.12
204 1,2-Dichlorobenzene					CAS #: 95-50-1		
12.733	12.741 (1.346)	146	54244	2.00000	2.034	80.00- 120.00	100.00
12.733	12.741 (1.346)	148	33671			33.84- 93.84	62.07
12.733	12.741 (1.346)	111	23692			12.73- 72.73	43.68
206 1,2-Dibromo-3-chloropropane					CAS #: 96-12-8		
13.600	13.600 (1.438)	157	31809	2.00000	1.969	80.00- 120.00	100.00(a)
13.600	13.600 (1.438)	75	26948			52.48- 112.48	84.72
13.600	13.600 (1.438)	155	24389			47.41- 107.41	76.67
207 Dodecane					CAS #: 112-40-3		
13.801	13.801 (1.459)	57	76973	2.47000	2.484	80.00- 120.00	100.00
13.801	13.801 (1.459)	43	66209			52.87- 112.87	86.02
213 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
14.460	14.467 (1.529)	180	50012	2.52000	2.605	80.00- 120.00	100.00
14.467	14.467 (1.529)	182	47092			65.33- 125.33	94.16
215 Hexachlorobutadiene					CAS #: 87-68-3		
14.581	14.582 (1.541)	225	35349	2.57000	2.658	80.00- 120.00	100.00
14.581	14.582 (1.541)	223	22934			33.17- 93.17	64.88
216 Naphthalene					CAS #: 91-20-3		
14.760	14.768 (1.560)	128	13400	0.25000	0.2587	80.00- 120.00	100.00(a)
14.768	14.768 (1.561)	127	2043			0.00- 42.88	15.25
222 1,2,3-Trichlorobenzene					CAS #: 87-61-6		
15.068	15.069 (1.593)	180	46605	2.66000	2.753	80.00- 120.00	100.00
15.068	15.069 (1.593)	182	42985			65.75- 125.75	92.23
15.061	15.069 (1.592)	145	15683			5.23- 65.23	33.65

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p051905.d
Lab Smp Id: ICAL Level 4
Analysis Type: VOA
Quant Type: ISTD
Operator: LD
Method File: /chem/msdp.i/19MAY21.b/p21q0519a.m
Misc Info: 2.0ppbv (5.0ppbv)

Calibration Date: 19-MAY-2021
Calibration Time: 15:55
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	158810	95286	222334	159831	0.64
108 1,4-Difluorobenze	597103	358262	835944	608981	1.99
153 Chlorobenzene-d5	587747	352648	822846	602501	2.51

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.78	5.45	6.11	5.78	-0.00
108 1,4-Difluorobenze	6.66	6.33	6.99	6.66	-0.00
153 Chlorobenzene-d5	9.46	9.13	9.79	9.46	-0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msdp.i/19MAY21.b/p051905.d

Date : 19-MAY-2021 14:30

Client ID:

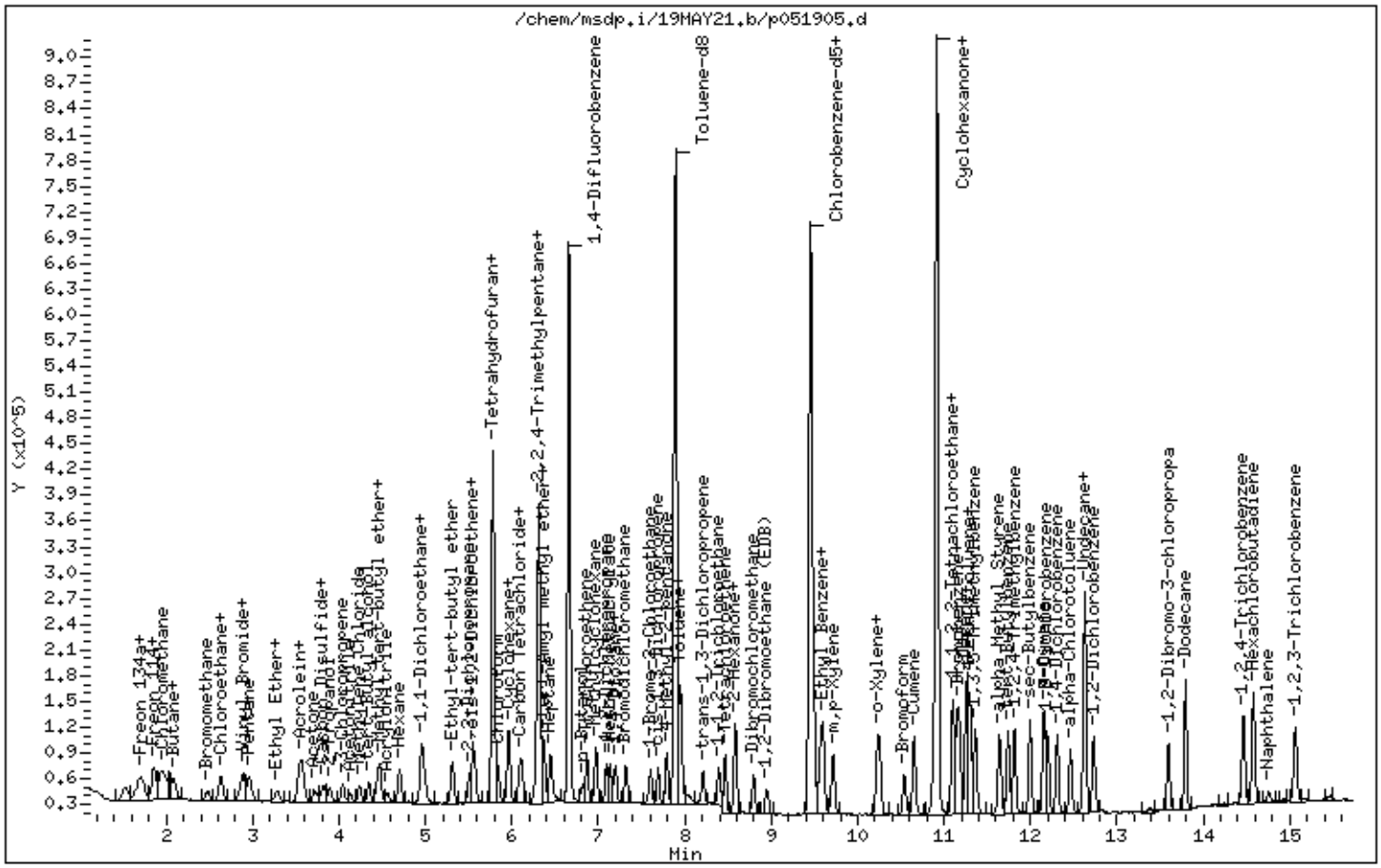
Instrument: msdp.i

Sample Info: 80mL 3018-2045

Operator: LD

Column phase: RTX-624

Column diameter: 0.25



US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/19MAY21.b/p051916.d
Lab Smp Id: ICAL Level 4
Inj Date : 19-MAY-2021 20:13
Operator : gh Inst ID: msdp.i
Smp Info : 80mL 3018-1928
Misc Info : 2.0ppbv (5.0ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/19MAY21.b/p21q0519a.m
Meth Date : 20-May-2021 09:50 lk8g Quant Type: ISTD
Cal Date : 19-MAY-2021 20:13 Cal File: p051916.d
Als bottle: 2 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT20spICAL.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 90 Bromochloromethane					CAS #: 74-97-5		
5.778	5.778 (1.000)	130	156828	25.0000		80.00- 120.00	100.00
5.778	5.778 (1.000)	128	122219			48.23- 108.23	77.93
5.778	5.778 (1.000)	49	287649			150.57- 210.57	183.42
* 108 1,4-Difluorobenzene					CAS #: 540-36-3		
6.659	6.659 (1.000)	114	605078	25.0000		80.00- 120.00	100.00
6.659	6.659 (1.000)	88	96791			0.00- 45.71	16.00
* 153 Chlorobenzene-d5					CAS #: 3114-55-4		
9.460	9.460 (1.000)	117	594880	25.0000		80.00- 120.00	100.00
9.460	9.460 (1.000)	82	325179			23.78- 83.78	54.66
3 Freon 143a					CAS #: 420-46-2		
1.591	1.590 (0.275)	65	7005	2.00000	2.200	80.00- 120.00	100.00
1.591	1.590 (0.275)	69	17061			243.50- 303.50	243.55
1.591	1.590 (0.275)	64	2455			0.00- 54.06	35.05
6 Propane					CAS #: 74-98-6		
1.675	1.674 (0.290)	43	5172	2.00000	1.772	80.00- 120.00	100.00(a)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
6 Propane (continued)							
1.675	1.674 (0.290)	39	4252			34.98- 94.98	82.21
1.675	1.674 (0.290)	41	3543			25.22- 85.22	68.50
13 Freon 142b						CAS #: 75-68-3	
1.898	1.884 (0.329)	65	31581	2.00000	1.959	80.00- 120.00	100.00(a)
1.884	1.884 (0.326)	45	11066			0.00- 59.77	35.04
36 1-Pentene						CAS #: 109-67-1	
2.906	2.906 (0.503)	55	19625	2.00000	1.877	80.00- 120.00	100.00(a)
2.906	2.906 (0.503)	42	27964			105.17- 165.17	142.49
40 Freon 123a						CAS #: 354-23-4	
3.378	3.385 (0.585)	117	19654	2.00000	1.937	80.00- 120.00	100.00(a)
3.386	3.378 (0.586)	67	26135			104.69- 164.69	132.98
41 Freon 123						CAS #: 306-83-2	
3.479	3.479 (0.602)	83	29140	2.00000	2.074	80.00- 120.00	100.00
3.479	3.479 (0.602)	133	6343			0.00- 50.87	21.77
3.479	3.479 (0.602)	85	20407			36.08- 96.08	70.03
55 Cyclopentene						CAS #: 142-29-0	
4.073	4.073 (0.705)	67	30943	2.00000	2.049	80.00- 120.00	100.00
4.073	4.073 (0.705)	68	11219			6.76- 66.76	36.26
4.073	4.073 (0.705)	53	8640			0.00- 57.54	27.92
56 Methyl Acetate						CAS #: 79-20-9	
4.080	4.073 (0.706)	43	37032	2.00000	2.096	80.00- 120.00	100.00(a)
4.080	4.073 (0.706)	74	5940			0.00- 44.13	16.04
74 Chloroprene						CAS #: 126-99-8	
5.019	5.019 (0.869)	53	28789	2.00000	2.062	80.00- 120.00	100.00
5.019	5.019 (0.869)	88	11054			9.21- 69.21	38.40
5.019	5.019 (0.869)	50	7722			0.00- 54.25	26.82
75 1-Propanol						CAS #: 71-23-8	
5.090	5.083 (0.881)	59	4700	2.00000	2.160	80.00- 120.00	100.00
5.090	5.083 (0.881)	42	3899			63.23- 123.23	82.96
5.090	5.083 (0.881)	41	2821			24.74- 84.74	60.02
88 Methyl Acrylate						CAS #: 96-33-3	
5.628	5.620 (0.974)	55	37088	2.00000	1.993	80.00- 120.00	100.00(a)
5.628	5.620 (0.974)	85	5500			0.00- 41.28	14.83
5.628	5.620 (0.974)	58	3509			0.00- 38.22	9.46
103 Isobutanol						CAS #: 78-83-1	
6.244	6.244 (1.081)	39	4047	2.00000	1.753	80.00- 120.00	100.00(a)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
103 Isobutanol (continued)							
6.244	6.244 (1.081)	43	20761			448.18- 508.18	513.00
6.244	6.244 (1.081)	41	13172			299.99- 359.99	325.48
113 Ethyl acrylate					CAS #: 140-88-5		
6.946	6.938 (0.734)	99	2995	2.00000	2.111	80.00- 120.00	100.00
6.946	6.938 (0.734)	45	5574			149.95- 209.95	186.11
6.939	6.938 (0.733)	55	50476			1849.07-1909.07	1685.34
115 2-Pentanone					CAS #: 107-87-9		
7.032	7.031 (0.743)	43	62449	2.00000	2.048	80.00- 120.00	100.00
7.032	7.031 (0.743)	58	4500			0.00- 37.44	7.21
7.032	7.031 (0.743)	86	7757			0.00- 42.78	12.42
145 Butyl Acetate					CAS #: 123-86-4		
8.665	8.665 (1.301)	56	30994	2.00000	2.010	80.00- 120.00	100.00(a)
8.665	8.665 (1.301)	73	9804			0.00- 59.10	31.63
8.665	8.657 (1.301)	43	73858			215.30- 275.30	238.30
157 1,1,1,2-Tetrachloroethane					CAS #: 630-20-6		
9.596	9.596 (1.014)	131	24295	2.00000	1.850	80.00- 120.00	100.00(a)
9.460	9.460 (1.000)	117	594880			57.42- 117.42	2448.57
9.603	9.596 (1.015)	95	9068			5.70- 65.70	37.32
166 2-Heptanone					CAS #: 110-43-0		
10.362	10.362 (1.793)	58	45629	2.00000	1.976	80.00- 120.00	100.00(a)
10.362	10.362 (1.793)	43	77430			136.03- 196.03	169.69
172 D-Limonene					CAS #: 5989-27-5		
12.089	12.089 (1.278)	68	17413	2.00000	1.618	80.00- 120.00	100.00(a)
12.089	12.089 (1.278)	93	11534			39.41- 99.41	66.24
186 4-Chlorotoluene					CAS #: 106-43-4		
11.444	11.444 (1.210)	126	25118	2.00000	2.045	80.00- 120.00	100.00
11.444	11.444 (1.210)	91	72648			295.02- 355.02	289.23
11.444	11.444 (1.210)	63	9860			11.82- 71.82	39.25
197 1,2,3-Trimethylbenzene					CAS #: 526-73-8		
12.318	12.318 (1.302)	120	34881	2.00000	1.964	80.00- 120.00	100.00(a)
12.318	12.318 (1.302)	105	77447			192.40- 252.40	222.03
12.311	12.318 (1.301)	77	8888			0.00- 54.69	25.48
205 Hexachloroethane					CAS #: 67-72-1		
12.963	12.970 (1.370)	201	9631	2.00000	1.605	80.00- 120.00	100.00(a)
12.963	12.970 (1.370)	117	13291			102.99- 162.99	138.00

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
208 1,3,5-Trichlorobenzene					CAS #: 108-70-3		
13.758	13.758 (1.454)	180	50566	2.00000	2.010	80.00- 120.00	100.00
13.758	13.758 (1.454)	182	47208			65.24- 125.24	93.36
210 alpha-Pinene					CAS #: 80-56-8		
10.599	10.599 (1.120)	93	45684	2.00000	1.964	80.00- 120.00	100.00(a)
10.599	10.599 (1.120)	77	14355			0.00- 58.21	31.42
214 beta-Pinene					CAS #: 127-91-3		
11.415	11.422 (1.207)	93	23101	2.00000	1.704	80.00- 120.00	100.00(a)
11.444	11.444 (1.210)	91	72648			153.57- 213.57	314.48

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p051916.d
Lab Smp Id: ICAL Level 4
Analysis Type: VOA
Quant Type: ISTD
Operator: gh
Method File: /chem/msdp.i/19MAY21.b/p21q0519a.m
Misc Info: 2.0ppbv (5.0ppbv)

Calibration Date: 19-MAY-2021
Calibration Time: 15:55
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	158810	95286	222334	156828	-1.25
108 1,4-Difluorobenze	597103	358262	835944	605078	1.34
153 Chlorobenzene-d5	587747	352648	822846	594880	1.21

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.78	5.45	6.11	5.78	-0.00
108 1,4-Difluorobenze	6.66	6.33	6.99	6.66	-0.00
153 Chlorobenzene-d5	9.46	9.13	9.79	9.46	-0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msdp.i/19MAY21.b/p051916.d

Date : 19-MAY-2021 20:13

Client ID:

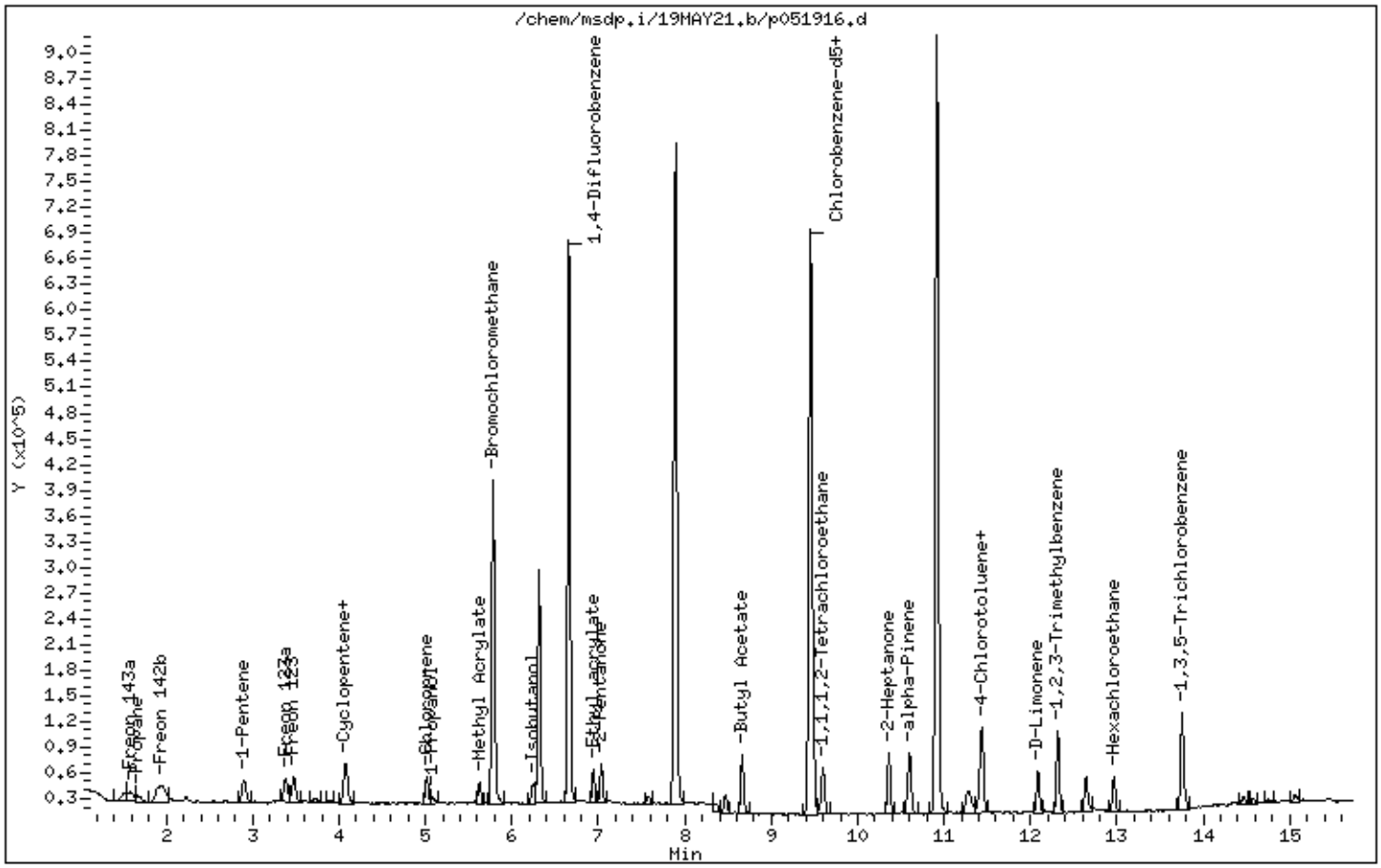
Instrument: msdp.i

Sample Info: 80mL 3018-1928

Operator: gh

Column phase: RTX-624

Column diameter: 0.25



US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/19MAY21.b/p051906.d
Lab Smp Id: ICAL Level 5
Inj Date : 19-MAY-2021 15:00
Operator : LD Inst ID: msdp.i
Smp Info : 200mL 3018-2045
Misc Info : 5.0ppbv (5.0ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/19MAY21.b/p21q0519a.m
Meth Date : 20-May-2021 09:50 lk8g Quant Type: ISTD
Cal Date : 19-MAY-2021 20:43 Cal File: p051917.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT20ICAL.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
4 Freon 134a					CAS #: 811-97-2		
1.661	1.633 (0.287)	83	23995	5.00000	4.931	80.00- 120.00	100.00
1.661	1.633 (0.287)	69	22578			59.44- 119.44	94.09
1.759	1.745 (0.304)	51	102230			419.06- 479.06	426.05
5 Propylene					CAS #: 115-07-1		
1.689	1.675 (0.292)	41	35760	5.00000	4.916	80.00- 120.00	100.00
1.689	1.675 (0.292)	42	24631			35.28- 95.28	68.88
1.689	1.675 (0.292)	39	23528			38.35- 98.35	65.79
7 1,1-Difluoroethane					CAS #: 75-37-6		
1.703	1.703 (0.294)	65	15753	5.00000	4.318	80.00- 120.00	100.00
1.759	1.745 (0.304)	51	102230			597.63- 657.63	648.96
1.717	1.703 (0.297)	47	10143			33.72- 93.72	64.39
8 Freon 12					CAS #: 75-71-8		
1.717	1.717 (0.297)	85	74104	5.00000	5.482	80.00- 120.00	100.00
1.717	1.717 (0.297)	87	24165			2.37- 62.37	32.61
9 Chlorodifluoromethane					CAS #: 75-45-6		
1.759	1.745 (0.304)	67	7019	5.00000	5.292	80.00- 120.00	100.00

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
9 Chlorodifluoromethane (continued)							
1.759	1.745 (0.304)	51	102230			1501.01-1561.01	1456.48
10 Freon 114					CAS #: 76-14-2		
1.857	1.856 (0.321)	135	74492	5.00000	5.312	80.00- 120.00	100.00
1.857	1.856 (0.321)	137	23699			2.30- 62.30	31.81
12 Isobutane					CAS #: 75-28-5		
1.871	1.870 (0.323)	43	83131	5.00000	5.099	80.00- 120.00	100.00
1.871	1.870 (0.323)	42	28746			2.44- 62.44	34.58
1.871	1.856 (0.323)	58	3128			0.00- 33.36	3.76
15 Chloromethane					CAS #: 74-87-3		
1.954	1.940 (0.338)	50	34644	5.00000	4.063	80.00- 120.00	100.00
1.954	1.940 (0.338)	52	9203			0.00- 56.26	26.56
18 Butane					CAS #: 106-97-8		
2.032	2.025 (0.351)	58	10771	5.00000	5.513	80.00- 120.00	100.00
2.039	2.025 (0.352)	43	81676			823.29- 883.29	758.30
19 Vinyl Chloride					CAS #: 75-01-4		
2.075	2.068 (0.359)	62	52333	5.00000	5.191	80.00- 120.00	100.00
2.075	2.068 (0.359)	64	16408			0.00- 59.69	31.35
20 1,3-Butadiene					CAS #: 106-99-0		
2.104	2.089 (0.364)	54	34439	5.00000	4.748	80.00- 120.00	100.00
2.096	2.089 (0.362)	39	40510			52.37- 112.37	117.63
24 Bromomethane					CAS #: 74-83-9		
2.483	2.483 (0.429)	94	37056	5.00000	5.477	80.00- 120.00	100.00
2.483	2.483 (0.429)	96	35000			64.07- 124.07	94.45
30 Chloroethane					CAS #: 75-00-3		
2.619	2.612 (0.453)	64	20225	5.00000	5.684	80.00- 120.00	100.00
2.619	2.612 (0.453)	66	5966			0.04- 60.04	29.50
2.612	2.612 (0.452)	49	6111			4.54- 64.54	30.22
31 Isopentane					CAS #: 78-78-4		
2.641	2.634 (0.456)	43	54200	5.00000	5.198	80.00- 120.00	100.00
2.641	2.634 (0.456)	57	34951			34.12- 94.12	64.49
32 Vinyl Bromide					CAS #: 593-60-2		
2.849	2.841 (0.492)	106	30600	5.00000	5.302	80.00- 120.00	100.00
2.849	2.841 (0.492)	108	29476			69.27- 129.27	96.33
33 Freon 11					CAS #: 75-69-4		
2.891	2.884 (0.500)	101	77104	5.00000	5.291	80.00- 120.00	100.00

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
33 Freon 11 (continued)							
2.891	2.884 (0.500)	103	50811			34.72- 94.72	65.90
34 Dichlorofluoromethane					CAS #: 75-43-4		
2.906	2.899 (0.502)	67	65512	5.00000	5.152	80.00- 120.00	100.00
2.906	2.899 (0.502)	69	21322			0.84- 60.84	32.55
35 Pentane					CAS #: 109-66-0		
2.970	2.970 (0.513)	43	87490	5.00000	5.059	80.00- 120.00	100.00
2.970	2.970 (0.513)	57	12542			0.00- 44.98	14.34
2.970	2.970 (0.513)	72	6373			0.00- 37.39	7.28
38 Ethyl Ether					CAS #: 60-29-7		
3.293	3.285 (0.569)	74	15538	5.00000	5.437	80.00- 120.00	100.00
3.293	3.285 (0.569)	59	30441			163.46- 223.46	195.91
3.285	3.285 (0.568)	45	42142			250.40- 310.40	271.22
39 Ethanol					CAS #: 64-17-5		
3.250	3.242 (0.562)	46	7863	5.00000	4.992	80.00- 120.00	100.00
3.285	3.242 (0.568)	45	41557			511.19- 571.19	528.51
42 Acrolein					CAS #: 107-02-8		
3.543	3.529 (0.612)	55	14233	5.00000	5.312	80.00- 120.00	100.00
3.543	3.529 (0.612)	56	18296			111.10- 171.10	128.55
43 Freon 113					CAS #: 76-13-1		
3.550	3.550 (0.614)	151	56770	5.00000	5.289	80.00- 120.00	100.00
3.558	3.550 (0.615)	153	35706			33.56- 93.56	62.90
3.550	3.550 (0.614)	101	68951			89.21- 149.21	121.46
44 1,1-Dichloroethene					CAS #: 75-35-4		
3.586	3.579 (0.620)	96	33311	5.00000	5.191	80.00- 120.00	100.00
3.586	3.579 (0.620)	98	21526			34.02- 94.02	64.62
3.586	3.579 (0.620)	61	66191			168.77- 228.77	198.71
47 Acetone					CAS #: 67-64-1		
3.722	3.708 (0.643)	58	20489	5.00000	4.976	80.00- 120.00	100.00
3.722	3.708 (0.643)	43	68525			302.95- 362.95	334.45
48 Carbon Disulfide					CAS #: 75-15-0		
3.830	3.823 (0.662)	76	91954	5.00000	5.292	80.00- 120.00	100.00
49 Iodomethane					CAS #: 74-88-4		
3.801	3.794 (0.657)	142	34575	5.00000	3.786	80.00- 120.00	100.00
3.801	3.794 (0.657)	127	14689			12.22- 72.22	42.48

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
52 2-Propanol					CAS #: 67-63-0		
3.894	3.887 (0.673)	45	81715	5.00000	5.020	80.00- 120.00	100.00
3.901	3.887 (0.674)	43	14133			0.00- 47.19	17.30
54 3-Chloropropene					CAS #: 107-05-1		
4.052	4.052 (0.700)	76	15048	5.00000	5.111	80.00- 120.00	100.00
4.052	4.052 (0.700)	41	60762			396.19- 456.19	403.79
57 Acetonitrile					CAS #: 75-05-8		
4.131	4.123 (0.714)	41	39661	5.00000	5.288	80.00- 120.00	100.00
4.138	4.123 (0.715)	40	25399			20.95- 80.95	64.04
4.138	4.123 (0.715)	38	4002			0.00- 41.17	10.09
59 Methylene Chloride					CAS #: 75-09-2		
4.238	4.238 (0.733)	49	56613	5.00000	5.369	80.00- 120.00	100.00
4.238	4.238 (0.733)	84	29850			22.03- 82.03	52.73
4.238	4.238 (0.733)	51	17301			0.18- 60.18	30.56
62 tert-Butyl alcohol					CAS #: 75-65-0		
4.346	4.338 (0.751)	59	101502	5.00000	5.272	80.00- 120.00	100.00
4.346	4.338 (0.751)	41	20240			0.00- 51.11	19.94
4.346	4.338 (0.751)	57	10646			0.00- 40.49	10.49
63 Methyl tert-butyl ether					CAS #: 1634-04-4		
4.453	4.446 (0.770)	73	95601	5.00000	5.059	80.00- 120.00	100.00
4.453	4.446 (0.770)	57	32712			3.10- 63.10	34.22
4.446	4.446 (0.768)	41	29468			1.28- 61.28	30.82
64 trans-1,2-Dichloroethene					CAS #: 156-60-5		
4.482	4.482 (0.775)	98	22139	5.00000	5.128	80.00- 120.00	100.00
4.482	4.482 (0.775)	61	65349			255.84- 315.84	295.18
4.482	4.482 (0.775)	96	35688			127.59- 187.59	161.20
66 Acrylonitrile					CAS #: 107-13-1		
4.568	4.560 (0.790)	52	31636	5.00000	5.067	80.00- 120.00	100.00
4.568	4.560 (0.790)	53	37230			88.05- 148.05	117.68
67 Hexane					CAS #: 110-54-3		
4.697	4.697 (0.812)	57	78566	5.00000	5.242	80.00- 120.00	100.00
4.697	4.697 (0.812)	43	52548			37.52- 97.52	66.88
4.697	4.697 (0.812)	86	8762			0.00- 41.48	11.15
71 1,1-Dichloroethane					CAS #: 75-34-3		
4.969	4.962 (0.859)	63	71027	5.00000	5.330	80.00- 120.00	100.00
4.969	4.962 (0.859)	65	20959			0.00- 59.70	29.51

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
72 Isopropyl ether						CAS #: 108-20-3	
4.954	4.954 (0.856)	45	175979	5.00000	5.056	80.00- 120.00	100.00
4.954	4.954 (0.856)	87	32174			0.00- 48.18	18.28
4.954	4.954 (0.856)	59	19101			0.00- 40.15	10.85
73 Vinyl Acetate						CAS #: 108-05-4	
4.997	4.997 (0.864)	86	8490	5.00000	5.067	80.00- 120.00	100.00
4.997	4.997 (0.864)	43	210809			2432.48-2492.48	2483.03
79 Ethyl-tert-butyl ether						CAS #: 637-92-3	
5.305	5.305 (0.917)	59	155272	5.00000	5.130	80.00- 120.00	100.00
5.313	5.305 (0.918)	87	47844			1.00- 61.00	30.81
5.305	5.305 (0.917)	41	29096			0.00- 48.73	18.74
84 2,2-Dichloropropane						CAS #: 594-20-7	
5.506	5.506 (0.952)	77	57515	5.00000	5.111	80.00- 120.00	100.00
5.506	5.506 (0.952)	79	19126			2.28- 62.28	33.25
5.513	5.506 (0.953)	97	14288			0.00- 53.93	24.84
85 cis-1,2-Dichloroethene						CAS #: 156-59-2	
5.549	5.549 (0.959)	98	23684	5.00000	5.416	80.00- 120.00	100.00
5.549	5.549 (0.959)	96	37228			125.75- 185.75	157.19
5.549	5.549 (0.959)	61	88318			332.40- 392.40	372.90
86 2-Butanone						CAS #: 78-93-3	
5.563	5.556 (0.962)	72	18843	5.00000	5.301	80.00- 120.00	100.00
5.570	5.556 (0.963)	43	231029			1214.50-1274.50	1226.07
5.556	5.556 (0.960)	57	9599			14.68- 74.68	50.94
87 Ethyl Acetate						CAS #: 141-78-6	
5.578	5.570 (0.964)	45	18229	5.00000	5.206	80.00- 120.00	100.00
5.549	5.549 (0.959)	61	88318			452.04- 512.04	484.49
5.578	5.570 (0.964)	70	9745			22.77- 82.77	53.46
89 Tetrahydrofuran						CAS #: 109-99-9	
5.778	5.771 (0.999)	42	62552	5.00000	5.248	80.00- 120.00	100.00
5.778	5.771 (0.999)	71	16889			0.00- 55.82	27.00
5.778	5.771 (0.999)	72	17687			0.00- 57.59	28.28
* 90 Bromochloromethane						CAS #: 74-97-5	
5.785	5.778 (1.000)	130	153560	25.0000		80.00- 120.00	100.00
5.785	5.778 (1.000)	128	120740			48.23- 108.23	78.63
5.785	5.778 (1.000)	49	285150			150.57- 210.57	185.69
92 Chloroform						CAS #: 67-66-3	
5.843	5.835 (1.010)	83	72304	5.00000	5.396	80.00- 120.00	100.00

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
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92 Chloroform (continued)							
5.835	5.835 (1.009)	85	48644			34.70- 94.70	67.28
94 Cyclohexane					CAS #: 110-82-7		
5.957	5.957 (1.030)	84	48651	5.00000	5.230	80.00- 120.00	100.00
5.957	5.957 (1.030)	56	84034			142.57- 202.57	172.73
5.957	5.957 (1.030)	41	47136			62.09- 122.09	96.89
96 1,1,1-Trichloroethane					CAS #: 71-55-6		
5.972	5.972 (1.032)	97	76302	5.00000	5.101	80.00- 120.00	100.00
5.972	5.972 (1.032)	99	48638			34.02- 94.02	63.74
97 Carbon Tetrachloride					CAS #: 56-23-5		
6.086	6.086 (1.052)	119	68353	5.00000	4.926	80.00- 120.00	100.00
6.086	6.086 (1.052)	117	69130			70.64- 130.64	101.14
99 1,1-Dichloropropene					CAS #: 563-58-6		
6.122	6.115 (0.918)	110	21692	5.00000	5.091	80.00- 120.00	100.00
6.115	6.115 (0.917)	75	54412			226.85- 286.85	250.84
101 2,2,4-Trimethylpentane					CAS #: 540-84-1		
6.280	6.280 (1.085)	57	268783	5.00000	5.166	80.00- 120.00	100.00
6.280	6.280 (1.085)	56	86771			2.24- 62.24	32.28
6.280	6.280 (1.085)	41	65018			0.00- 54.39	24.19
102 Benzene					CAS #: 71-43-2		
6.301	6.301 (0.945)	78	103868	5.00000	5.071	80.00- 120.00	100.00
6.301	6.301 (0.945)	77	24431			0.00- 52.90	23.52
$ 104 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
6.315	6.308 (1.092)	65	219202	25.0000	26.408	80.00- 120.00	100.00
6.315	6.308 (1.092)	67	110588			27.21- 87.21	50.45
105 tert-Amyl methyl ether					CAS #: 994-05-8		
6.358	6.358 (0.954)	87	27837	5.00000	4.798	80.00- 120.00	100.00
6.358	6.358 (0.954)	73	110361			372.79- 432.79	396.45
6.358	6.358 (0.954)	55	40445			112.09- 172.09	145.29
106 1,2-Dichloroethane					CAS #: 107-06-2		
6.380	6.380 (0.957)	62	57760	5.00000	5.314	80.00- 120.00	100.00
6.380	6.380 (0.957)	64	18494			0.79- 60.79	32.02
107 Heptane					CAS #: 142-82-5		
6.452	6.444 (0.968)	71	40838	5.00000	5.157	80.00- 120.00	100.00
6.452	6.444 (0.968)	43	109706			226.53- 286.53	268.64
6.452	6.444 (0.968)	57	53636			100.85- 160.85	131.34

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
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* 108 1,4-Difluorobenzene						CAS #: 540-36-3	
6.666	6.659 (1.000)	114	614215	25.0000		80.00- 120.00	100.00
6.659	6.659 (1.000)	88	99192			0.00- 45.71	16.15
110 n-Butanol						CAS #: 71-36-3	
6.817	6.810 (1.023)	56	37585	5.00000	5.115	80.00- 120.00	100.00
6.817	6.810 (1.023)	41	25791			40.99- 100.99	68.62
6.817	6.810 (1.023)	43	19657			27.38- 87.38	52.30
111 Trichloroethene						CAS #: 79-01-6	
6.867	6.867 (1.030)	95	50753	5.00000	5.124	80.00- 120.00	100.00
6.867	6.867 (1.030)	130	55306			76.29- 136.29	108.97
6.867	6.867 (1.030)	97	33227			33.63- 93.63	65.47
114 1,2-Dichloropropane						CAS #: 78-87-5	
7.096	7.089 (1.064)	63	52290	5.00000	4.994	80.00- 120.00	100.00
7.096	7.089 (1.064)	62	37275			41.07- 101.07	71.29
7.096	7.089 (1.064)	41	32092			22.53- 82.53	61.37
116 Methyl Methacrylate						CAS #: 80-62-6	
7.139	7.132 (0.755)	69	42786	5.00000	5.002	80.00- 120.00	100.00
7.139	7.132 (0.755)	41	84724			179.84- 239.84	198.02
7.139	7.139 (0.755)	100	16675			9.59- 69.59	38.97
117 1,4-Dioxane						CAS #: 123-91-1	
7.182	7.175 (1.077)	88	29029	5.00000	5.128	80.00- 120.00	100.00
7.182	7.175 (1.077)	58	30676			68.28- 128.28	105.67
7.175	7.175 (1.076)	57	10403			2.68- 62.68	35.84
118 Dibromomethane						CAS #: 74-95-3	
7.204	7.204 (0.761)	174	48548	5.00000	5.183	80.00- 120.00	100.00
7.204	7.204 (0.761)	93	44155			60.09- 120.09	90.95
7.204	7.204 (0.761)	95	37033			48.38- 108.38	76.28
122 Bromodichloromethane						CAS #: 75-27-4	
7.318	7.318 (1.098)	83	79651	5.00000	5.195	80.00- 120.00	100.00
7.318	7.318 (1.098)	85	50267			35.24- 95.24	63.11
126 cis-1,3-Dichloropropene						CAS #: 10061-01-5	
7.698	7.691 (1.155)	75	66685	5.00000	5.188	80.00- 120.00	100.00
7.691	7.691 (1.154)	77	20474			2.42- 62.42	30.70
7.698	7.691 (1.155)	39	45208			37.16- 97.16	67.79
127 Methylcyclohexane						CAS #: 108-87-2	
6.974	6.974 (1.046)	83	68708	5.00000	4.834	80.00- 120.00	100.00
6.974	6.974 (1.046)	98	32707			15.78- 75.78	47.60

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
127 Methylcyclohexane (continued)							
6.974	6.974 (1.046)	55	78753			84.64- 144.64	114.62
131 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.798	7.791 (1.170)	58	52502	5.00000	5.020	80.00- 120.00	100.00
7.798	7.791 (1.170)	43	142064			242.35- 302.35	270.59
7.798	7.791 (1.170)	85	17584			3.24- 63.24	33.49
$ 134 Toluene-d8					CAS #: 2037-26-5		
7.891	7.891 (1.184)	98	675430	25.0000	25.276	80.00- 120.00	100.00
7.891	7.891 (1.184)	70	73047			0.00- 40.44	10.81
7.891	7.891 (1.184)	100	435947			34.95- 94.95	64.54
137 Toluene					CAS #: 108-88-3		
7.956	7.949 (1.193)	91	142004	5.00000	5.011	80.00- 120.00	100.00
7.956	7.949 (1.193)	92	83371			28.38- 88.38	58.71
136 Octane					CAS #: 111-65-9		
7.949	7.949 (1.192)	57	58129	5.00000	4.968	80.00- 120.00	100.00
7.949	7.949 (1.192)	85	50245			56.00- 116.00	86.44
7.949	7.949 (1.192)	43	157708			228.66- 288.66	271.31
139 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
8.214	8.214 (0.868)	75	61054	5.00000	4.981	80.00- 120.00	100.00
8.214	8.214 (0.868)	77	20798			1.24- 61.24	34.06
8.214	8.214 (0.868)	39	41024			34.11- 94.11	67.19
141 1,1,2-Trichloroethane					CAS #: 79-00-5		
8.400	8.400 (0.888)	97	49333	5.00000	4.984	80.00- 120.00	100.00
8.400	8.400 (0.888)	99	30960			31.96- 91.96	62.76
8.400	8.400 (0.888)	83	42360			52.93- 112.93	85.87
142 Tetrachloroethene					CAS #: 127-18-4		
8.464	8.464 (0.895)	166	71008	5.00000	4.897	80.00- 120.00	100.00
8.464	8.464 (0.895)	129	56371			47.84- 107.84	79.39
8.464	8.464 (0.895)	131	53822			45.29- 105.29	75.80
143 2-Hexanone					CAS #: 591-78-6		
8.586	8.586 (0.908)	58	73185	5.00000	5.071	80.00- 120.00	100.00
8.586	8.586 (0.908)	43	139375			162.87- 222.87	190.44
8.586	8.586 (0.908)	100	11054			0.00- 45.94	15.10
144 1,3-Dichloropropane					CAS #: 142-28-9		
8.579	8.579 (1.287)	76	69233	5.00000	5.146	80.00- 120.00	100.00
8.579	8.579 (1.287)	41	91020			94.99- 154.99	131.47
8.579	8.579 (1.287)	78	23803			2.05- 62.05	34.38

				AMOUNTS				
					CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE		(PPBV)	(PPBV)	TARGET RANGE	RATIO
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146 Dibromochloromethane						CAS #: 124-48-1		
8.801	8.801 (0.930)	129	91590	5.00000		4.835	80.00- 120.00	100.00
8.801	8.801 (0.930)	127	70825				47.45- 107.45	77.33
148 1,2-Dibromoethane (EDB)						CAS #: 106-93-4		
8.951	8.951 (0.946)	107	81392	5.00000		4.951	80.00- 120.00	100.00
8.951	8.951 (0.946)	109	77262				64.21- 124.21	94.93
151 1-Bromo-2-Chloroethane						CAS #: 107-04-0		
7.605	7.605 (1.141)	63	98471	5.00000		5.098	80.00- 120.00	100.00
7.605	7.605 (1.141)	65	28839				0.00- 59.64	29.29
7.612	7.605 (1.142)	144	9784				0.00- 39.63	9.94
* 153 Chlorobenzene-d5						CAS #: 3114-55-4		
9.460	9.460 (1.000)	117	619157	25.0000			80.00- 120.00	100.00
9.460	9.460 (1.000)	82	334026				23.78- 83.78	53.95
154 Chlorobenzene						CAS #: 108-90-7		
9.496	9.496 (1.004)	112	124593	5.00000		5.059	80.00- 120.00	100.00
9.496	9.496 (1.004)	114	38052				1.74- 61.74	30.54
9.496	9.496 (1.004)	77	71532				25.04- 85.04	57.41
155 Ethyl Benzene						CAS #: 100-41-4		
9.567	9.567 (1.011)	106	62027	5.00000		4.807	80.00- 120.00	100.00
9.567	9.567 (1.011)	91	188972				273.74- 333.74	304.66
156 Nonane						CAS #: 111-84-2		
9.603	9.596 (1.015)	43	159252	5.00000		4.835	80.00- 120.00	100.00
9.603	9.603 (1.015)	57	134249				54.16- 114.16	84.30
9.603	9.603 (1.015)	85	35745				0.00- 53.90	22.45
158 m,p-Xylene						CAS #: 108-38-3		
9.718	9.718 (1.027)	106	78963	5.00000		4.914	80.00- 120.00	100.00
9.718	9.718 (1.027)	91	153333				163.73- 223.73	194.18
164 o-Xylene						CAS #: 95-47-6		
10.226	10.226 (1.081)	106	75798	5.00000		4.901	80.00- 120.00	100.00
10.226	10.226 (1.081)	91	152985				177.45- 237.45	201.83
165 Styrene						CAS #: 100-42-5		
10.255	10.255 (1.084)	104	128486	5.00000		4.859	80.00- 120.00	100.00
10.255	10.255 (1.084)	78	63172				17.88- 77.88	49.17
167 Bromoform						CAS #: 75-25-2		
10.549	10.542 (1.115)	173	90352	5.00000		4.922	80.00- 120.00	100.00
10.549	10.542 (1.115)	171	45856				21.25- 81.25	50.75

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE		RATIO
168 Cumene						CAS #: 98-82-8		
10.649	10.649 (1.126)	105	240077	5.00000	4.956	80.00- 120.00		100.00
10.656	10.649 (1.126)	120	66515			0.00- 58.52		27.71
10.649	10.649 (1.126)	51	32083			0.00- 43.00		13.36
169 Cyclohexanone						CAS #: 108-94-1		
10.871	10.871 (1.149)	55	82861	5.00000	4.708	80.00- 120.00		100.00(a)
10.871	10.871 (1.149)	98	26897			1.94- 61.94		32.46
10.871	10.871 (1.149)	42	53882			37.89- 97.89		65.03
$ 170 4-Bromofluorobenzene						CAS #: 460-00-4		
10.921	10.921 (1.154)	174	395495	25.0000	24.963	80.00- 120.00		100.00
10.921	10.921 (1.154)	95	504864			95.92- 155.92		127.65
10.921	10.921 (1.154)	176	377124			66.89- 126.89		95.35
175 1,1,2,2-Tetrachloroethane						CAS #: 79-34-5		
11.107	11.100 (1.174)	83	115941	5.00000	4.902	80.00- 120.00		100.00
11.107	11.100 (1.174)	85	75106			35.20- 95.20		64.78
177 Bromobenzene						CAS #: 108-86-1		
11.107	11.107 (1.174)	156	72185	5.00000	4.925	80.00- 120.00		100.00
11.107	11.107 (1.174)	158	70501			67.21- 127.21		97.67
11.179	11.179 (1.182)	77	42638			29.02- 89.02		59.07
178 Propylbenzene						CAS #: 103-65-1		
11.150	11.150 (1.179)	120	70283	5.00000	4.886	80.00- 120.00		100.00
11.150	11.150 (1.179)	91	273213			366.49- 426.49		388.73
11.150	11.150 (1.179)	105	11389			0.00- 44.85		16.20
179 1,2,3-Trichloropropane						CAS #: 96-18-4		
11.179	11.179 (1.182)	110	35448	5.00000	4.699	80.00- 120.00		100.00
11.179	11.179 (1.182)	75	108981			280.55- 340.55		307.44
11.100	11.100 (1.173)	61	16930			15.49- 75.49		47.76
181 trans-1,4-Dichloro-2-butene						CAS #: 110-57-6		
11.179	11.179 (1.182)	53	24562	5.00000	4.944	80.00- 120.00		100.00
11.179	11.179 (1.182)	89	19278			49.11- 109.11		78.49
11.179	11.179 (1.182)	75	108981			426.44- 486.44		443.70
182 Decane						CAS #: 124-18-5		
11.251	11.251 (1.189)	57	178943	5.00000	4.581	80.00- 120.00		100.00
11.251	11.251 (1.189)	71	50239			0.00- 57.66		28.08
11.258	11.258 (1.190)	142	7536			0.00- 34.09		4.21
183 4-Ethyltoluene						CAS #: 622-96-8		
11.287	11.287 (1.193)	120	74542	5.00000	4.802	80.00- 120.00		100.00

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
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183 4-Ethyltoluene (continued)							
11.287	11.287 (1.193)	105	236331			284.55- 344.55	317.04
184 2-Chlorotoluene					CAS #: 95-49-8		
11.308	11.308 (1.195)	126	59824	5.00000	4.914	80.00- 120.00	100.00
11.308	11.308 (1.195)	91	202772			315.17- 375.17	338.95
11.301	11.301 (1.195)	65	31085			21.55- 81.55	51.96
185 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
11.365	11.365 (1.201)	120	105493	5.00000	4.941	80.00- 120.00	100.00
11.365	11.365 (1.201)	105	204343			164.93- 224.93	193.70
188 alpha Methyl Styrene					CAS #: 98-83-9		
11.645	11.645 (1.231)	118	103352	5.00000	4.828	80.00- 120.00	100.00
11.645	11.645 (1.231)	103	55037			25.30- 85.30	53.25
189 tert-Butylbenzene					CAS #: 98-06-6		
11.738	11.738 (1.241)	119	195585	5.00000	4.893	80.00- 120.00	100.00
11.745	11.738 (1.242)	134	47923			0.00- 54.25	24.50
11.738	11.738 (1.241)	91	122078			31.27- 91.27	62.42
190 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
11.817	11.817 (1.249)	105	197002	5.00000	4.852	80.00- 120.00	100.00
11.817	11.817 (1.249)	120	100446			19.05- 79.05	50.99
192 sec-Butylbenzene					CAS #: 135-98-8		
11.996	11.996 (1.268)	134	61201	5.00000	4.936	80.00- 120.00	100.00
11.996	11.996 (1.268)	105	289294			437.55- 497.55	472.69
11.996	11.996 (1.268)	91	43669			40.76- 100.76	71.35
194 p-Cymene					CAS #: 99-87-6		
12.160	12.160 (1.285)	119	263591	5.00000	4.820	80.00- 120.00	100.00
12.160	12.160 (1.285)	134	69874			0.00- 55.54	26.51
12.160	12.153 (1.285)	91	57763			0.00- 51.48	21.91
195 1,3-Dichlorobenzene					CAS #: 541-73-1		
12.203	12.196 (1.290)	146	138345	5.00000	4.901	80.00- 120.00	100.00
12.203	12.196 (1.290)	148	88212			33.21- 93.21	63.76
12.196	12.196 (1.289)	111	57941			11.31- 71.31	41.88
196 1,4-Dichlorobenzene					CAS #: 106-46-7		
12.311	12.311 (1.301)	146	139853	5.00000	4.937	80.00- 120.00	100.00
12.311	12.311 (1.301)	148	90352			33.90- 93.90	64.60
12.311	12.311 (1.301)	111	54179			9.45- 69.45	38.74
199 alpha-Chlorotoluene					CAS #: 100-44-7		
12.461	12.461 (1.317)	91	190239	5.00000	4.969	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
199 alpha-Chlorotoluene (continued)							
12.461	12.461 (1.317)	126	42809			0.00- 53.26	22.50
201 Undecane					CAS #: 1120-21-4		
12.640	12.640 (1.336)	57	220225	5.00000	4.896	80.00- 120.00	100.00
12.640	12.640 (1.336)	43	195864			58.12- 118.12	88.94
202 Butylbenzene					CAS #: 104-51-8		
12.626	12.626 (1.335)	134	68631	5.00000	4.849	80.00- 120.00	100.00
12.626	12.626 (1.335)	91	231841			314.79- 374.79	337.81
12.626	12.626 (1.335)	92	123591			154.29- 214.29	180.08
204 1,2-Dichlorobenzene					CAS #: 95-50-1		
12.741	12.741 (1.347)	146	136005	5.00000	4.972	80.00- 120.00	100.00
12.741	12.741 (1.347)	148	85924			33.84- 93.84	63.18
12.733	12.741 (1.346)	111	58979			12.73- 72.73	43.37
206 1,2-Dibromo-3-chloropropane					CAS #: 96-12-8		
13.600	13.600 (1.438)	157	79532	5.00000	4.858	80.00- 120.00	100.00
13.600	13.600 (1.438)	75	66463			52.48- 112.48	83.57
13.600	13.600 (1.438)	155	62161			47.41- 107.41	78.16
207 Dodecane					CAS #: 112-40-3		
13.801	13.801 (1.459)	57	213240	6.18000	6.559	80.00- 120.00	100.00
13.801	13.801 (1.459)	43	173340			52.87- 112.87	81.29
213 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
14.467	14.467 (1.529)	180	130791	6.30000	6.544	80.00- 120.00	100.00
14.467	14.467 (1.529)	182	126487			65.33- 125.33	96.71
215 Hexachlorobutadiene					CAS #: 87-68-3		
14.582	14.582 (1.541)	225	92162	6.44000	6.665	80.00- 120.00	100.00
14.582	14.582 (1.541)	223	58371			33.17- 93.17	63.34
216 Naphthalene					CAS #: 91-20-3		
14.768	14.768 (1.561)	128	32129	0.64000	0.6122	80.00- 120.00	100.00
14.761	14.768 (1.560)	127	4372			0.00- 42.88	13.61
222 1,2,3-Trichlorobenzene					CAS #: 87-61-6		
15.069	15.069 (1.593)	180	118701	6.66000	6.782	80.00- 120.00	100.00
15.069	15.069 (1.593)	182	113556			65.75- 125.75	95.67
15.069	15.069 (1.593)	145	41550			5.23- 65.23	35.00

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p051906.d
Lab Smp Id: ICAL Level 5
Analysis Type: VOA
Quant Type: ISTD
Operator: LD
Method File: /chem/msdp.i/19MAY21.b/p21q0519a.m
Misc Info: 5.0ppbv (5.0ppbv)

Calibration Date: 19-MAY-2021
Calibration Time: 15:55
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	158810	95286	222334	153560	-3.31
108 1,4-Difluorobenze	597103	358262	835944	614215	2.87
153 Chlorobenzene-d5	587747	352648	822846	619157	5.34

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.78	5.45	6.11	5.79	0.13
108 1,4-Difluorobenze	6.66	6.33	6.99	6.67	0.11
153 Chlorobenzene-d5	9.46	9.13	9.79	9.46	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msdp.i/19MAY21.b/p051906.d

Page 1

Date : 19-MAY-2021 15:00

Client ID:

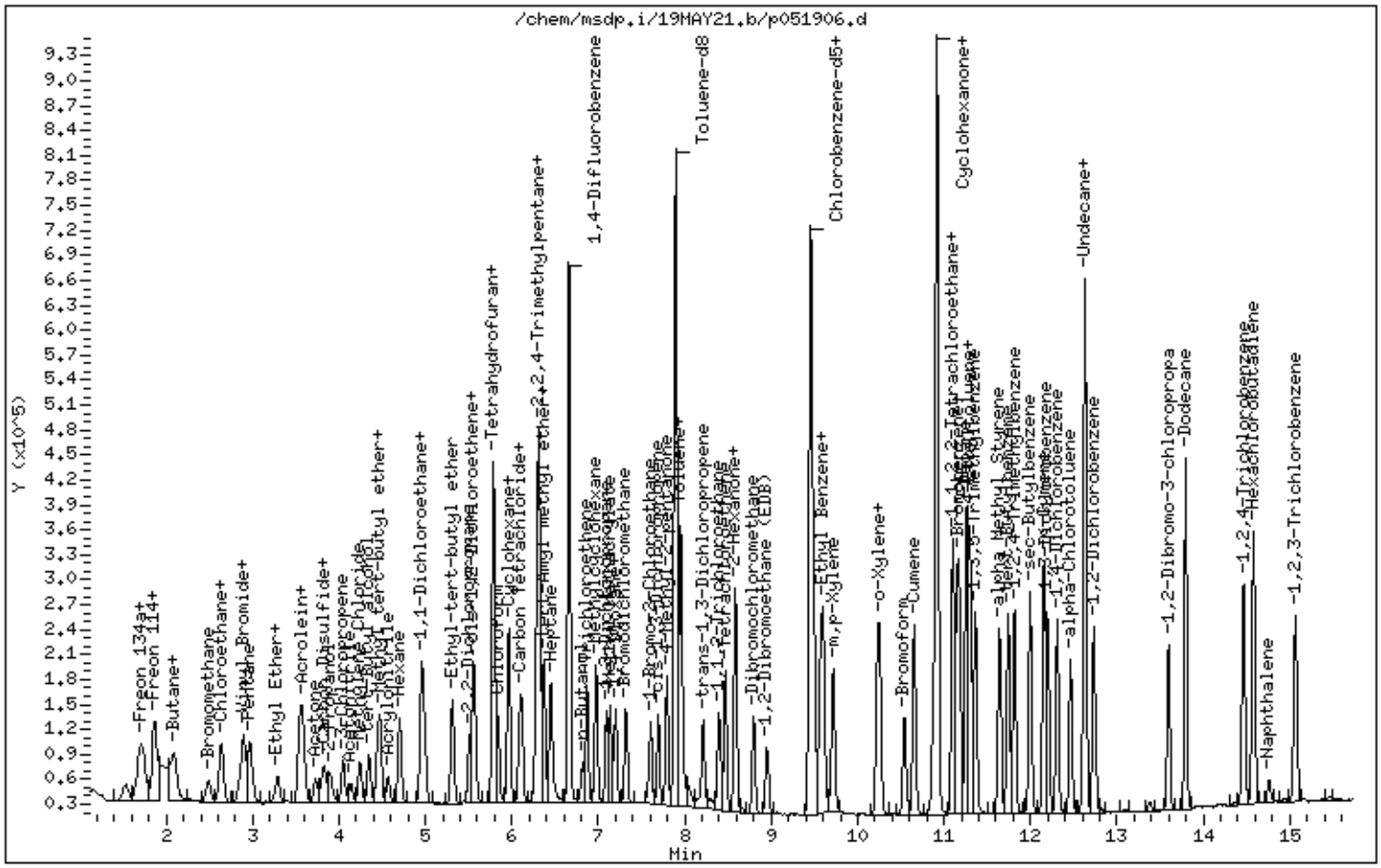
Instrument: msdp.i

Sample Info: 200mL 3018-2045

Operator: LD

Column phase: RTX-624

Column diameter: 0.25



US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/19MAY21.b/p051917.d
Lab Smp Id: ICAL Level 5
Inj Date : 19-MAY-2021 20:43
Operator : gh Inst ID: msdp.i
Smp Info : 200mL 3018-1928
Misc Info : 5.0ppbv (5.0ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/19MAY21.b/p21q0519a.m
Meth Date : 20-May-2021 09:50 lk8g Quant Type: ISTD
Cal Date : 19-MAY-2021 20:43 Cal File: p051917.d
Als bottle: 2 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT20spICAL.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 90 Bromochloromethane					CAS #: 74-97-5		
5.785	5.778 (1.000)	130	153596	25.0000		80.00- 120.00	100.00
5.785	5.778 (1.000)	128	120099			48.23- 108.23	78.19
5.785	5.778 (1.000)	49	277119			150.57- 210.57	180.42
* 108 1,4-Difluorobenzene					CAS #: 540-36-3		
6.659	6.659 (1.000)	114	607535	25.0000		80.00- 120.00	100.00
6.659	6.659 (1.000)	88	95316			0.00- 45.71	15.69
* 153 Chlorobenzene-d5					CAS #: 3114-55-4		
9.460	9.460 (1.000)	117	599728	25.0000		80.00- 120.00	100.00
9.460	9.460 (1.000)	82	327307			23.78- 83.78	54.58
3 Freon 143a					CAS #: 420-46-2		
1.591	1.590 (0.275)	65	8816	5.00000	2.827	80.00- 120.00	100.00
1.605	1.590 (0.277)	69	21877			243.50- 303.50	248.15
1.605	1.590 (0.277)	64	2504			0.00- 54.06	28.40
6 Propane					CAS #: 74-98-6		
1.688	1.674 (0.292)	43	14059	5.00000	4.918	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
6 Propane (continued)							
1.688	1.674 (0.292)	39	9149			34.98- 94.98	65.08
1.688	1.674 (0.292)	41	8274			25.22- 85.22	58.85
13 Freon 142b					CAS #: 75-68-3		
1.898	1.884 (0.328)	65	77411	5.00000	4.903	80.00- 120.00	100.00
1.898	1.884 (0.328)	45	23408			0.00- 59.77	30.24
36 1-Pentene					CAS #: 109-67-1		
2.906	2.906 (0.502)	55	50218	5.00000	4.904	80.00- 120.00	100.00(a)
2.906	2.906 (0.502)	42	65836			105.17- 165.17	131.10
40 Freon 123a					CAS #: 354-23-4		
3.393	3.385 (0.586)	117	52612	5.00000	5.296	80.00- 120.00	100.00(a)
3.386	3.378 (0.585)	67	63816			104.69- 164.69	121.30
41 Freon 123					CAS #: 306-83-2		
3.486	3.479 (0.603)	83	68341	5.00000	4.967	80.00- 120.00	100.00
3.486	3.479 (0.603)	133	15880			0.00- 50.87	23.24
3.486	3.479 (0.603)	85	48933			36.08- 96.08	71.60
55 Cyclopentene					CAS #: 142-29-0		
4.073	4.073 (0.704)	67	78856	5.00000	5.332	80.00- 120.00	100.00
4.073	4.073 (0.704)	68	30336			6.76- 66.76	38.47
4.073	4.073 (0.704)	53	22763			0.00- 57.54	28.87
56 Methyl Acetate					CAS #: 79-20-9		
4.088	4.073 (0.707)	43	91822	5.00000	5.308	80.00- 120.00	100.00
4.088	4.073 (0.707)	74	13069			0.00- 44.13	14.23
74 Chloroprene					CAS #: 126-99-8		
5.019	5.019 (0.868)	53	75220	5.00000	5.500	80.00- 120.00	100.00
5.019	5.019 (0.868)	88	29151			9.21- 69.21	38.75
5.019	5.019 (0.868)	50	18461			0.00- 54.25	24.54
75 1-Propanol					CAS #: 71-23-8		
5.090	5.083 (0.880)	59	10283	5.00000	4.824	80.00- 120.00	100.00
5.090	5.083 (0.880)	42	8877			63.23- 123.23	86.33
5.090	5.083 (0.880)	41	5590			24.74- 84.74	54.36
88 Methyl Acrylate					CAS #: 96-33-3		
5.628	5.620 (0.973)	55	95932	5.00000	5.264	80.00- 120.00	100.00
5.628	5.620 (0.973)	85	11014			0.00- 41.28	11.48
5.628	5.620 (0.973)	58	7843			0.00- 38.22	8.18
103 Isobutanol					CAS #: 78-83-1		
6.244	6.244 (1.079)	39	10867	5.00000	4.807	80.00- 120.00	100.00(a)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
103 Isobutanol (continued)							
6.244	6.244 (1.079)	43	49327			448.18- 508.18	453.92
6.244	6.244 (1.079)	41	33984			299.99- 359.99	312.73
113 Ethyl acrylate					CAS #: 140-88-5		
6.946	6.938 (0.734)	99	7111	5.00000	4.971	80.00- 120.00	100.00
6.938	6.938 (0.733)	45	13011			149.95- 209.95	182.97
6.938	6.938 (0.733)	55	133152			1849.07-1909.07	1872.48
115 2-Pentanone					CAS #: 107-87-9		
7.032	7.031 (0.743)	43	159681	5.00000	5.193	80.00- 120.00	100.00
7.032	7.031 (0.743)	58	12244			0.00- 37.44	7.67
7.032	7.031 (0.743)	86	19990			0.00- 42.78	12.52
145 Butyl Acetate					CAS #: 123-86-4		
8.665	8.665 (1.301)	56	77293	5.00000	4.991	80.00- 120.00	100.00(a)
8.665	8.665 (1.301)	73	23632			0.00- 59.10	30.57
8.665	8.657 (1.301)	43	188441			215.30- 275.30	243.80
157 1,1,1,2-Tetrachloroethane					CAS #: 630-20-6		
9.596	9.596 (1.014)	131	63705	5.00000	4.810	80.00- 120.00	100.00
9.460	9.460 (1.000)	117	599728			57.42- 117.42	941.41
9.596	9.596 (1.014)	95	23461			5.70- 65.70	36.83
166 2-Heptanone					CAS #: 110-43-0		
10.362	10.362 (1.791)	58	116686	5.00000	5.161	80.00- 120.00	100.00
10.362	10.362 (1.791)	43	191827			136.03- 196.03	164.40
172 D-Limonene					CAS #: 5989-27-5		
12.089	12.089 (1.278)	68	41323	5.00000	3.808	80.00- 120.00	100.00
12.089	12.089 (1.278)	93	28530			39.41- 99.41	69.04
186 4-Chlorotoluene					CAS #: 106-43-4		
11.444	11.444 (1.210)	126	63397	5.00000	5.120	80.00- 120.00	100.00
11.444	11.444 (1.210)	91	187470			295.02- 355.02	295.71
11.444	11.444 (1.210)	63	25896			11.82- 71.82	40.85
197 1,2,3-Trimethylbenzene					CAS #: 526-73-8		
12.318	12.318 (1.302)	120	88020	5.00000	4.917	80.00- 120.00	100.00(a)
12.318	12.318 (1.302)	105	198476			192.40- 252.40	225.49
12.318	12.318 (1.302)	77	22835			0.00- 54.69	25.94
205 Hexachloroethane					CAS #: 67-72-1		
12.970	12.970 (1.371)	201	21359	5.00000	3.532	80.00- 120.00	100.00
12.970	12.970 (1.371)	117	28923			102.99- 162.99	135.41

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
208 1,3,5-Trichlorobenzene					CAS #: 108-70-3		
13.758	13.758 (1.454)	180	128059	5.00000	5.049	80.00- 120.00	100.00
13.758	13.758 (1.454)	182	121863			65.24- 125.24	95.16
210 alpha-Pinene					CAS #: 80-56-8		
10.599	10.599 (1.120)	93	114218	5.00000	4.871	80.00- 120.00	100.00
10.599	10.599 (1.120)	77	34098			0.00- 58.21	29.85
214 beta-Pinene					CAS #: 127-91-3		
11.423	11.422 (1.207)	93	58870	5.00000	4.306	80.00- 120.00	100.00
11.444	11.444 (1.210)	91	187470			153.57- 213.57	318.45

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p051917.d
Lab Smp Id: ICAL Level 5
Analysis Type: VOA
Quant Type: ISTD
Operator: gh
Method File: /chem/msdp.i/19MAY21.b/p21q0519a.m
Misc Info: 5.0ppbv (5.0ppbv)

Calibration Date: 19-MAY-2021
Calibration Time: 15:55
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	158810	95286	222334	153596	-3.28
108 1,4-Difluorobenze	597103	358262	835944	607535	1.75
153 Chlorobenzene-d5	587747	352648	822846	599728	2.04

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.78	5.45	6.11	5.79	0.12
108 1,4-Difluorobenze	6.66	6.33	6.99	6.66	-0.00
153 Chlorobenzene-d5	9.46	9.13	9.79	9.46	-0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msdp.i/19MAY21.b/p051917.d

Date : 19-MAY-2021 20:43

Client ID:

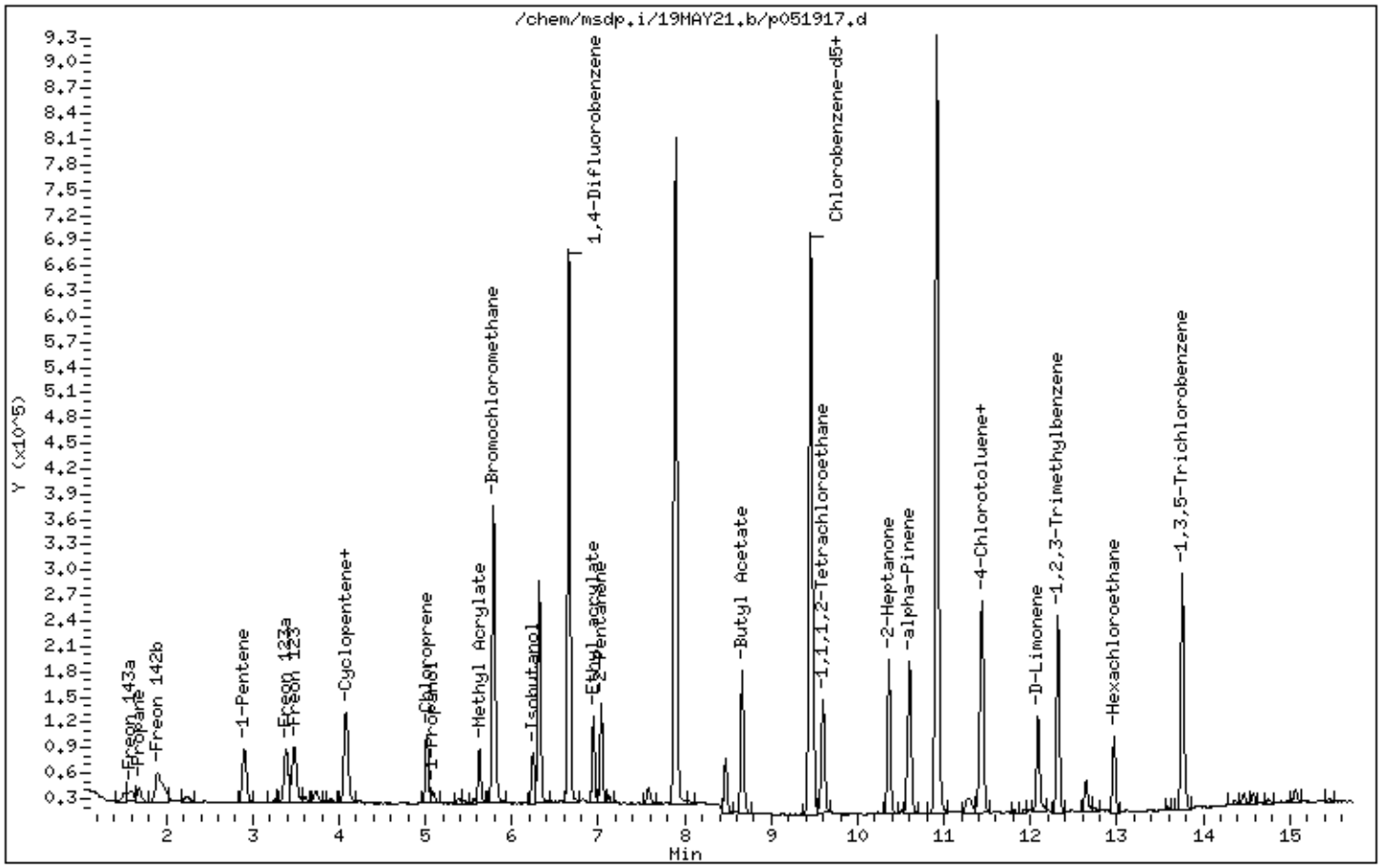
Instrument: msdp.i

Sample Info: 200mL 3018-1928

Operator: gh

Column phase: RTX-624

Column diameter: 0.25



US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/19MAY21.b/p051907.d
Lab Smp Id: ICAL Level 6
Inj Date : 19-MAY-2021 15:27
Operator : LD Inst ID: msdp.i
Smp Info : 20mL 3018-2034
Misc Info : 20ppbv (200ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/19MAY21.b/p21q0519a.m
Meth Date : 20-May-2021 09:50 lk8g Quant Type: ISTD
Cal Date : 19-MAY-2021 15:27 Cal File: p051907.d
Als bottle: 13 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT20ICAL.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
4 Freon 134a					CAS #: 811-97-2		
1.633	1.633 (0.283)	83	93022	20.0000	18.478	80.00- 120.00	100.00
1.633	1.633 (0.283)	69	85552			59.44- 119.44	91.97
1.744	1.745 (0.302)	51	410469			419.06- 479.06	441.26
5 Propylene					CAS #: 115-07-1		
1.675	1.675 (0.290)	41	126668	20.0000	17.269	80.00- 120.00	100.00
1.675	1.675 (0.290)	42	83011			35.28- 95.28	65.53
1.675	1.675 (0.290)	39	87777			38.35- 98.35	69.30
7 1,1-Difluoroethane					CAS #: 75-37-6		
1.688	1.703 (0.292)	65	66510	20.0000	17.899	80.00- 120.00	100.00
1.744	1.745 (0.302)	51	410469			597.63- 657.63	617.15
1.688	1.703 (0.292)	47	42224			33.72- 93.72	63.49
8 Freon 12					CAS #: 75-71-8		
1.716	1.717 (0.297)	85	256819	20.0000	18.385	80.00- 120.00	100.00
1.716	1.717 (0.297)	87	83094			2.37- 62.37	32.36
9 Chlorodifluoromethane					CAS #: 75-45-6		
1.744	1.745 (0.302)	67	27136	20.0000	19.522	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
	9 Chlorodifluoromethane (continued)						
1.744	1.745 (0.302)	51	410469			1501.01-1561.01	1512.64
	10 Freon 114				CAS #: 76-14-2		
1.842	1.856 (0.319)	135	257544	20.0000	17.884	80.00- 120.00	100.00
1.842	1.856 (0.319)	137	84530			2.30- 62.30	32.82
	12 Isobutane				CAS #: 75-28-5		
1.856	1.870 (0.321)	43	276539	20.0000	16.916	80.00- 120.00	100.00
1.856	1.870 (0.321)	42	89198			2.44- 62.44	32.26
1.856	1.856 (0.321)	58	9258			0.00- 33.36	3.35
	15 Chloromethane				CAS #: 74-87-3		
1.940	1.940 (0.336)	50	175425	20.0000	19.636	80.00- 120.00	100.00
1.940	1.940 (0.336)	52	48487			0.00- 56.26	27.64
	18 Butane				CAS #: 106-97-8		
2.025	2.025 (0.350)	58	26908	20.0000	14.306	80.00- 120.00	100.00
2.025	2.025 (0.350)	43	210189			823.29- 883.29	781.14
	19 Vinyl Chloride				CAS #: 75-01-4		
2.068	2.068 (0.358)	62	167898	20.0000	16.491	80.00- 120.00	100.00
2.068	2.068 (0.358)	64	51574			0.00- 59.69	30.72
	20 1,3-Butadiene				CAS #: 106-99-0		
2.089	2.089 (0.362)	54	173027	20.0000	22.047	80.00- 120.00	100.00
2.089	2.089 (0.362)	39	131220			52.37- 112.37	75.84
	24 Bromomethane				CAS #: 74-83-9		
2.476	2.483 (0.428)	94	109467	20.0000	16.296	80.00- 120.00	100.00
2.476	2.483 (0.428)	96	101049			64.07- 124.07	92.31
	30 Chloroethane				CAS #: 75-00-3		
2.605	2.612 (0.451)	64	60984	20.0000	17.056	80.00- 120.00	100.00
2.605	2.612 (0.451)	66	18278			0.04- 60.04	29.97
2.605	2.612 (0.451)	49	19753			4.54- 64.54	32.39
	31 Isopentane				CAS #: 78-78-4		
2.634	2.634 (0.456)	43	221068	20.0000	20.084	80.00- 120.00	100.00
2.634	2.634 (0.456)	57	143195			34.12- 94.12	64.77
	32 Vinyl Bromide				CAS #: 593-60-2		
2.834	2.841 (0.490)	106	103992	20.0000	17.605	80.00- 120.00	100.00
2.834	2.841 (0.490)	108	100338			69.27- 129.27	96.49
	33 Freon 11				CAS #: 75-69-4		
2.884	2.884 (0.499)	101	289208	20.0000	19.049	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
33 Freon 11 (continued)							
2.884	2.884 (0.499)	103	188691			34.72- 94.72	65.24
34 Dichlorofluoromethane					CAS #: 75-43-4		
2.899	2.899 (0.502)	67	224049	20.0000	17.280	80.00- 120.00	100.00
2.899	2.899 (0.502)	69	67915			0.84- 60.84	30.31
35 Pentane					CAS #: 109-66-0		
2.970	2.970 (0.514)	43	340845	20.0000	18.944	80.00- 120.00	100.00
2.970	2.970 (0.514)	57	51294			0.00- 44.98	15.05
2.970	2.970 (0.514)	72	24256			0.00- 37.39	7.12
38 Ethyl Ether					CAS #: 60-29-7		
3.285	3.285 (0.569)	74	55504	20.0000	18.719	80.00- 120.00	100.00
3.285	3.285 (0.569)	59	102072			163.46- 223.46	183.90
3.278	3.285 (0.567)	45	151025			250.40- 310.40	272.10
39 Ethanol					CAS #: 64-17-5		
3.235	3.242 (0.560)	46	28012	20.0000	17.557	80.00- 120.00	100.00
3.278	3.242 (0.567)	45	150850			511.19- 571.19	538.52
42 Acrolein					CAS #: 107-02-8		
3.522	3.529 (0.609)	55	48671	20.0000	17.849	80.00- 120.00	100.00
3.522	3.529 (0.609)	56	67406			111.10- 171.10	138.49
43 Freon 113					CAS #: 76-13-1		
3.550	3.550 (0.614)	151	234506	20.0000	20.574	80.00- 120.00	100.00
3.550	3.550 (0.614)	153	150010			33.56- 93.56	63.97
3.550	3.550 (0.614)	101	277635			89.21- 149.21	118.39
44 1,1-Dichloroethene					CAS #: 75-35-4		
3.579	3.579 (0.619)	96	117179	20.0000	17.797	80.00- 120.00	100.00
3.579	3.579 (0.619)	98	73665			34.02- 94.02	62.87
3.579	3.579 (0.619)	61	234280			168.77- 228.77	199.93
47 Acetone					CAS #: 67-64-1		
3.708	3.708 (0.642)	58	72065	20.0000	17.340	80.00- 120.00	100.00
3.708	3.708 (0.642)	43	241838			302.95- 362.95	335.58
48 Carbon Disulfide					CAS #: 75-15-0		
3.815	3.823 (0.660)	76	317436	20.0000	17.928	80.00- 120.00	100.00
49 Iodomethane					CAS #: 74-88-4		
3.787	3.794 (0.655)	142	245125	20.0000	23.837	80.00- 120.00	100.00
3.787	3.794 (0.655)	127	102171			12.22- 72.22	41.68

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
52 2-Propanol					CAS #: 67-63-0		
3.880	3.887 (0.671)	45	307798	20.0000	18.411	80.00- 120.00	100.00
3.880	3.887 (0.671)	43	51379			0.00- 47.19	16.69
54 3-Chloropropene					CAS #: 107-05-1		
4.045	4.052 (0.700)	76	51511	20.0000	17.182	80.00- 120.00	100.00
4.045	4.052 (0.700)	41	225722			396.19- 456.19	438.20
57 Acetonitrile					CAS #: 75-05-8		
4.123	4.123 (0.714)	41	132955	20.0000	17.513	80.00- 120.00	100.00
4.123	4.123 (0.714)	40	69875			20.95- 80.95	52.56
4.123	4.123 (0.714)	38	15334			0.00- 41.17	11.53
59 Methylene Chloride					CAS #: 75-09-2		
4.231	4.238 (0.732)	49	188872	20.0000	17.656	80.00- 120.00	100.00
4.231	4.238 (0.732)	84	97783			22.03- 82.03	51.77
4.231	4.238 (0.732)	51	56590			0.18- 60.18	29.96
62 tert-Butyl alcohol					CAS #: 75-65-0		
4.338	4.338 (0.751)	59	376326	20.0000	18.886	80.00- 120.00	100.00
4.338	4.338 (0.751)	41	79824			0.00- 51.11	21.21
4.338	4.338 (0.751)	57	39827			0.00- 40.49	10.58
63 Methyl tert-butyl ether					CAS #: 1634-04-4		
4.446	4.446 (0.769)	73	393778	20.0000	19.813	80.00- 120.00	100.00
4.446	4.446 (0.769)	57	131571			3.10- 63.10	33.41
4.446	4.446 (0.769)	41	127804			1.28- 61.28	32.46
64 trans-1,2-Dichloroethene					CAS #: 156-60-5		
4.474	4.482 (0.774)	98	79611	20.0000	17.941	80.00- 120.00	100.00
4.474	4.482 (0.774)	61	222503			255.84- 315.84	279.49
4.474	4.482 (0.774)	96	121969			127.59- 187.59	153.21
66 Acrylonitrile					CAS #: 107-13-1		
4.553	4.560 (0.788)	52	108453	20.0000	17.080	80.00- 120.00	100.00
4.553	4.560 (0.788)	53	125300			88.05- 148.05	115.53
67 Hexane					CAS #: 110-54-3		
4.696	4.697 (0.813)	57	289038	20.0000	18.610	80.00- 120.00	100.00
4.696	4.697 (0.813)	43	192159			37.52- 97.52	66.48
4.696	4.697 (0.813)	86	34504			0.00- 41.48	11.94
71 1,1-Dichloroethane					CAS #: 75-34-3		
4.961	4.962 (0.859)	63	244047	20.0000	17.840	80.00- 120.00	100.00
4.961	4.962 (0.859)	65	72133			0.00- 59.70	29.56

				AMOUNTS				
					CAL-AMT	ON-COL		
	RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
	72 Isopropyl ether						CAS #: 108-20-3	
	4.947	4.954 (0.856)	45	733750	20.0000	19.999	80.00- 120.00	100.00
	4.954	4.954 (0.857)	87	130937			0.00- 48.18	17.84
	4.947	4.954 (0.856)	59	74206			0.00- 40.15	10.11
	73 Vinyl Acetate						CAS #: 108-05-4	
	4.997	4.997 (0.865)	86	29493	20.0000	17.415	80.00- 120.00	100.00
	4.990	4.997 (0.864)	43	540307			2432.48-2492.48	1831.98
	79 Ethyl-tert-butyl ether						CAS #: 637-92-3	
	5.305	5.305 (0.918)	59	633028	20.0000	19.878	80.00- 120.00	100.00
	5.305	5.305 (0.918)	87	196731			1.00- 61.00	31.08
	5.305	5.305 (0.918)	41	121691			0.00- 48.73	19.22
	84 2,2-Dichloropropane						CAS #: 594-20-7	
	5.506	5.506 (0.953)	77	247387	20.0000	20.676	80.00- 120.00	100.00
	5.506	5.506 (0.953)	79	79013			2.28- 62.28	31.94
	5.506	5.506 (0.953)	97	59214			0.00- 53.93	23.94
	85 cis-1,2-Dichloroethene						CAS #: 156-59-2	
	5.542	5.549 (0.959)	98	79311	20.0000	17.700	80.00- 120.00	100.00
	5.542	5.549 (0.959)	96	126353			125.75- 185.75	159.31
	5.542	5.549 (0.959)	61	301739			332.40- 392.40	380.45
	86 2-Butanone						CAS #: 78-93-3	
	5.556	5.556 (0.962)	72	60163	20.0000	16.887	80.00- 120.00	100.00
	5.563	5.556 (0.963)	43	755298			1214.50-1274.50	1255.42
	5.556	5.556 (0.962)	57	27140			14.68- 74.68	45.11
	87 Ethyl Acetate						CAS #: 141-78-6	
	5.570	5.570 (0.964)	45	61995	20.0000	17.497	80.00- 120.00	100.00
	5.542	5.549 (0.959)	61	301739			452.04- 512.04	486.72
	5.570	5.570 (0.964)	70	32560			22.77- 82.77	52.52
	89 Tetrahydrofuran						CAS #: 109-99-9	
	5.771	5.771 (0.999)	42	206034	20.0000	17.009	80.00- 120.00	100.00
	5.771	5.771 (0.999)	71	54220			0.00- 55.82	26.32
	5.771	5.771 (0.999)	72	59914			0.00- 57.59	29.08
*	90 Bromochloromethane						CAS #: 74-97-5	
	5.778	5.778 (1.000)	130	161884	25.0000		80.00- 120.00	100.00
	5.778	5.778 (1.000)	128	125674			48.23- 108.23	77.63
	5.771	5.778 (1.000)	49	290833			150.57- 210.57	179.66
	92 Chloroform						CAS #: 67-66-3	
	5.835	5.835 (1.010)	83	241783	20.0000	17.626	80.00- 120.00	100.00

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
92 Chloroform (continued)							
5.835	5.835 (1.010)	85	158829			34.70- 94.70	65.69
94 Cyclohexane					CAS #: 110-82-7		
5.957	5.957 (1.031)	84	203644	20.0000	20.607	80.00- 120.00	100.00
5.957	5.957 (1.031)	56	346268			142.57- 202.57	170.04
5.957	5.957 (1.031)	41	187080			62.09- 122.09	91.87
96 1,1,1-Trichloroethane					CAS #: 71-55-6		
5.964	5.972 (1.032)	97	306146	20.0000	19.529	80.00- 120.00	100.00
5.964	5.972 (1.032)	99	199684			34.02- 94.02	65.23
97 Carbon Tetrachloride					CAS #: 56-23-5		
6.086	6.086 (1.053)	119	305164	20.0000	20.683	80.00- 120.00	100.00
6.086	6.086 (1.053)	117	305319			70.64- 130.64	100.05
99 1,1-Dichloropropene					CAS #: 563-58-6		
6.115	6.115 (0.918)	110	71487	20.0000	17.887	80.00- 120.00	100.00
6.115	6.115 (0.918)	75	180986			226.85- 286.85	253.17
101 2,2,4-Trimethylpentane					CAS #: 540-84-1		
6.279	6.280 (1.087)	57	1110205	20.0000	20.193	80.00- 120.00	100.00
6.279	6.280 (1.087)	56	359061			2.24- 62.24	32.34
6.279	6.280 (1.087)	41	278205			0.00- 54.39	25.06
102 Benzene					CAS #: 71-43-2		
6.301	6.301 (0.946)	78	352350	20.0000	18.258	80.00- 120.00	100.00
6.301	6.301 (0.946)	77	82919			0.00- 52.90	23.53
$ 104 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
6.308	6.308 (1.092)	65	214356	25.0000	24.596	80.00- 120.00	100.00
6.308	6.308 (1.092)	67	113737			27.21- 87.21	53.06
105 tert-Amyl methyl ether					CAS #: 994-05-8		
6.358	6.358 (0.955)	87	111853	20.0000	20.020	80.00- 120.00	100.00
6.358	6.358 (0.955)	73	458075			372.79- 432.79	409.53
6.358	6.358 (0.955)	55	161464			112.09- 172.09	144.35
106 1,2-Dichloroethane					CAS #: 107-06-2		
6.380	6.380 (0.958)	62	181236	20.0000	17.798	80.00- 120.00	100.00
6.380	6.380 (0.958)	64	57046			0.79- 60.79	31.48
107 Heptane					CAS #: 142-82-5		
6.444	6.444 (0.968)	71	153106	20.0000	20.067	80.00- 120.00	100.00
6.444	6.444 (0.968)	43	404624			226.53- 286.53	264.28
6.444	6.444 (0.968)	57	205765			100.85- 160.85	134.39

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
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* 108 1,4-Difluorobenzene						CAS #: 540-36-3	
6.659	6.659 (1.000)	114	591321	25.0000		80.00- 120.00	100.00
6.659	6.659 (1.000)	88	94057			0.00- 45.71	15.91
110 n-Butanol						CAS #: 71-36-3	
6.810	6.810 (1.023)	56	132950	20.0000	19.082	80.00- 120.00	100.00
6.810	6.810 (1.023)	41	94545			40.99- 100.99	71.11
6.810	6.810 (1.023)	43	78634			27.38- 87.38	59.15
111 Trichloroethene						CAS #: 79-01-6	
6.867	6.867 (1.031)	95	167926	20.0000	18.042	80.00- 120.00	100.00
6.867	6.867 (1.031)	130	180875			76.29- 136.29	107.71
6.867	6.867 (1.031)	97	109619			33.63- 93.63	65.28
114 1,2-Dichloropropane						CAS #: 78-87-5	
7.089	7.089 (1.065)	63	184802	20.0000	18.644	80.00- 120.00	100.00
7.089	7.089 (1.065)	62	133840			41.07- 101.07	72.42
7.089	7.089 (1.065)	41	101498			22.53- 82.53	54.92
116 Methyl Methacrylate						CAS #: 80-62-6	
7.132	7.132 (0.754)	69	150281	20.0000	19.013	80.00- 120.00	100.00
7.132	7.132 (0.754)	41	320687			179.84- 239.84	213.39
7.132	7.139 (0.754)	100	60103			9.59- 69.59	39.99
117 1,4-Dioxane						CAS #: 123-91-1	
7.175	7.175 (1.077)	88	100090	20.0000	18.671	80.00- 120.00	100.00
7.175	7.175 (1.077)	58	98658			68.28- 128.28	98.57
7.175	7.175 (1.077)	57	32744			2.68- 62.68	32.71
118 Dibromomethane						CAS #: 74-95-3	
7.204	7.204 (0.761)	174	158665	20.0000	18.457	80.00- 120.00	100.00
7.204	7.204 (0.761)	93	142936			60.09- 120.09	90.09
7.204	7.204 (0.761)	95	122464			48.38- 108.38	77.18
122 Bromodichloromethane						CAS #: 75-27-4	
7.318	7.318 (1.099)	83	275648	20.0000	18.925	80.00- 120.00	100.00
7.318	7.318 (1.099)	85	177537			35.24- 95.24	64.41
126 cis-1,3-Dichloropropene						CAS #: 10061-01-5	
7.691	7.691 (1.155)	75	230619	20.0000	18.894	80.00- 120.00	100.00
7.691	7.691 (1.155)	77	72627			2.42- 62.42	31.49
7.691	7.691 (1.155)	39	154077			37.16- 97.16	66.81
127 Methylcyclohexane						CAS #: 108-87-2	
6.974	6.974 (1.047)	83	280885	20.0000	20.418	80.00- 120.00	100.00
6.974	6.974 (1.047)	98	132474			15.78- 75.78	47.16

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
127 Methylcyclohexane (continued)							
6.974	6.974 (1.047)	55	326597			84.64- 144.64	116.27
131 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.791	7.791 (1.170)	58	198797	20.0000	19.794	80.00- 120.00	100.00
7.791	7.791 (1.170)	43	542659			242.35- 302.35	272.97
7.791	7.791 (1.170)	85	66078			3.24- 63.24	33.24
$ 134 Toluene-d8					CAS #: 2037-26-5		
7.891	7.891 (1.185)	98	636242	25.0000	24.785	80.00- 120.00	100.00
7.891	7.891 (1.185)	70	65527			0.00- 40.44	10.30
7.891	7.891 (1.185)	100	416442			34.95- 94.95	65.45
137 Toluene					CAS #: 108-88-3		
7.948	7.949 (1.194)	91	514167	20.0000	19.066	80.00- 120.00	100.00
7.948	7.949 (1.194)	92	307832			28.38- 88.38	59.87
136 Octane					CAS #: 111-65-9		
7.941	7.949 (1.193)	57	236470	20.0000	20.785	80.00- 120.00	100.00
7.941	7.949 (1.193)	85	199342			56.00- 116.00	84.30
7.941	7.949 (1.193)	43	614834			228.66- 288.66	260.01
139 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
8.214	8.214 (0.868)	75	217123	20.0000	19.138	80.00- 120.00	100.00
8.214	8.214 (0.868)	77	68252			1.24- 61.24	31.43
8.214	8.214 (0.868)	39	141891			34.11- 94.11	65.35
141 1,1,2-Trichloroethane					CAS #: 79-00-5		
8.400	8.400 (0.888)	97	176754	20.0000	19.263	80.00- 120.00	100.00
8.400	8.400 (0.888)	99	111333			31.96- 91.96	62.99
8.400	8.400 (0.888)	83	150175			52.93- 112.93	84.96
142 Tetrachloroethene					CAS #: 127-18-4		
8.464	8.464 (0.895)	166	257592	20.0000	19.183	80.00- 120.00	100.00
8.464	8.464 (0.895)	129	201058			47.84- 107.84	78.05
8.464	8.464 (0.895)	131	191367			45.29- 105.29	74.29
143 2-Hexanone					CAS #: 591-78-6		
8.586	8.586 (0.908)	58	268908	20.0000	19.939	80.00- 120.00	100.00
8.586	8.586 (0.908)	43	517945			162.87- 222.87	192.61
8.586	8.586 (0.908)	100	41484			0.00- 45.94	15.43
144 1,3-Dichloropropane					CAS #: 142-28-9		
8.579	8.579 (1.288)	76	246257	20.0000	19.204	80.00- 120.00	100.00
8.579	8.579 (1.288)	41	314850			94.99- 154.99	127.85
8.579	8.579 (1.288)	78	78397			2.05- 62.05	31.84

				AMOUNTS				
					CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE		(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	=======	==========	=====
146 Dibromochloromethane						CAS #: 124-48-1		
8.801	8.801 (0.930)	129	337715	20.0000	19.240	80.00- 120.00		100.00
8.801	8.801 (0.930)	127	263594			47.45- 107.45		78.05
148 1,2-Dibromoethane (EDB)						CAS #: 106-93-4		
8.951	8.951 (0.946)	107	280035	20.0000	18.542	80.00- 120.00		100.00
8.951	8.951 (0.946)	109	267724			64.21- 124.21		95.60
151 1-Bromo-2-Chloroethane						CAS #: 107-04-0		
7.605	7.605 (1.142)	63	333684	20.0000	18.417	80.00- 120.00		100.00
7.605	7.605 (1.142)	65	97824			0.00- 59.64		29.32
7.605	7.605 (1.142)	144	32120			0.00- 39.63		9.63
* 153 Chlorobenzene-d5						CAS #: 3114-55-4		
9.460	9.460 (1.000)	117	579226	25.0000		80.00- 120.00		100.00
9.453	9.460 (1.000)	82	311215			23.78- 83.78		53.73
154 Chlorobenzene						CAS #: 108-90-7		
9.496	9.496 (1.004)	112	441684	20.0000	19.332	80.00- 120.00		100.00
9.496	9.496 (1.004)	114	142490			1.74- 61.74		32.26
9.496	9.496 (1.004)	77	248503			25.04- 85.04		56.26
155 Ethyl Benzene						CAS #: 100-41-4		
9.567	9.567 (1.011)	106	238564	20.0000	19.809	80.00- 120.00		100.00
9.567	9.567 (1.011)	91	733130			273.74- 333.74		307.31
156 Nonane						CAS #: 111-84-2		
9.596	9.596 (1.014)	43	660026	20.0000	21.119	80.00- 120.00		100.00
9.596	9.603 (1.014)	57	552781			54.16- 114.16		83.75
9.596	9.603 (1.014)	85	158629			0.00- 53.90		24.03
158 m,p-Xylene						CAS #: 108-38-3		
9.718	9.718 (1.027)	106	298628	20.0000	19.892	80.00- 120.00		100.00
9.718	9.718 (1.027)	91	589189			163.73- 223.73		197.30
164 o-Xylene						CAS #: 95-47-6		
10.226	10.226 (1.081)	106	296697	20.0000	20.402	80.00- 120.00		100.00
10.226	10.226 (1.081)	91	604874			177.45- 237.45		203.87
165 Styrene						CAS #: 100-42-5		
10.255	10.255 (1.084)	104	488029	20.0000	19.783	80.00- 120.00		100.00
10.255	10.255 (1.084)	78	228738			17.88- 77.88		46.87
167 Bromoform						CAS #: 75-25-2		
10.541	10.542 (1.114)	173	342784	20.0000	19.970	80.00- 120.00		100.00
10.541	10.542 (1.114)	171	175679			21.25- 81.25		51.25

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
168 Cumene					CAS #: 98-82-8		
10.649	10.649 (1.126)	105	931561	20.0000	20.442	80.00- 120.00	100.00
10.649	10.649 (1.126)	120	266395			0.00- 58.52	28.60
10.649	10.649 (1.126)	51	122943			0.00- 43.00	13.20
169 Cyclohexanone					CAS #: 108-94-1		
10.871	10.871 (1.149)	55	329076	20.0000	19.988	80.00- 120.00	100.00
10.871	10.871 (1.149)	98	105887			1.94- 61.94	32.18
10.871	10.871 (1.149)	42	225892			37.89- 97.89	68.64
$ 170 4-Bromofluorobenzene					CAS #: 460-00-4		
10.921	10.921 (1.154)	174	366979	25.0000	24.808	80.00- 120.00	100.00
10.914	10.921 (1.154)	95	468117			95.92- 155.92	127.56
10.921	10.921 (1.154)	176	351685			66.89- 126.89	95.83
175 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
11.107	11.100 (1.174)	83	448177	20.0000	20.205	80.00- 120.00	100.00
11.107	11.100 (1.174)	85	290309			35.20- 95.20	64.78
177 Bromobenzene					CAS #: 108-86-1		
11.107	11.107 (1.174)	156	273442	20.0000	19.953	80.00- 120.00	100.00
11.107	11.107 (1.174)	158	268738			67.21- 127.21	98.28
11.179	11.179 (1.182)	77	168602			29.02- 89.02	61.66
178 Propylbenzene					CAS #: 103-65-1		
11.150	11.150 (1.179)	120	275295	20.0000	20.363	80.00- 120.00	100.00
11.150	11.150 (1.179)	91	1090818			366.49- 426.49	396.24
11.150	11.150 (1.179)	105	41933			0.00- 44.85	15.23
179 1,2,3-Trichloropropane					CAS #: 96-18-4		
11.179	11.179 (1.182)	110	139458	20.0000	19.807	80.00- 120.00	100.00
11.179	11.179 (1.182)	75	427261			280.55- 340.55	306.37
11.100	11.100 (1.173)	61	62807			15.49- 75.49	45.04
181 trans-1,4-Dichloro-2-butene					CAS #: 110-57-6		
11.179	11.179 (1.182)	53	88946	20.0000	19.304	80.00- 120.00	100.00
11.172	11.179 (1.181)	89	71489			49.11- 109.11	80.37
11.179	11.179 (1.182)	75	427261			426.44- 486.44	480.36
182 Decane					CAS #: 124-18-5		
11.251	11.251 (1.189)	57	746366	20.0000	20.338	80.00- 120.00	100.00
11.251	11.251 (1.189)	71	204118			0.00- 57.66	27.35
11.258	11.258 (1.190)	142	29608			0.00- 34.09	3.97
183 4-Ethyltoluene					CAS #: 622-96-8		
11.286	11.287 (1.193)	120	295596	20.0000	20.284	80.00- 120.00	100.00

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
183 4-Ethyltoluene (continued)							
11.286	11.287 (1.193)	105	929331			284.55- 344.55	314.39
184 2-Chlorotoluene					CAS #: 95-49-8		
11.308	11.308 (1.195)	126	235462	20.0000	20.537	80.00- 120.00	100.00
11.308	11.308 (1.195)	91	804535			315.17- 375.17	341.68
11.301	11.301 (1.195)	65	116734			21.55- 81.55	49.58
185 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
11.365	11.365 (1.201)	120	416581	20.0000	20.680	80.00- 120.00	100.00
11.365	11.365 (1.201)	105	804831			164.93- 224.93	193.20
188 alpha Methyl Styrene					CAS #: 98-83-9		
11.645	11.645 (1.231)	118	413999	20.0000	20.536	80.00- 120.00	100.00
11.645	11.645 (1.231)	103	229936			25.30- 85.30	55.54
189 tert-Butylbenzene					CAS #: 98-06-6		
11.738	11.738 (1.241)	119	765020	20.0000	20.366	80.00- 120.00	100.00
11.738	11.738 (1.241)	134	183021			0.00- 54.25	23.92
11.738	11.738 (1.241)	91	463050			31.27- 91.27	60.53
190 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
11.817	11.817 (1.249)	105	783363	20.0000	20.495	80.00- 120.00	100.00
11.817	11.817 (1.249)	120	381421			19.05- 79.05	48.69
192 sec-Butylbenzene					CAS #: 135-98-8		
11.996	11.996 (1.268)	134	242771	20.0000	20.736	80.00- 120.00	100.00
11.996	11.996 (1.268)	105	1145624			437.55- 497.55	471.89
11.996	11.996 (1.268)	91	174745			40.76- 100.76	71.98
194 p-Cymene					CAS #: 99-87-6		
12.160	12.160 (1.285)	119	1070099	20.0000	20.727	80.00- 120.00	100.00
12.160	12.160 (1.285)	134	276177			0.00- 55.54	25.81
12.153	12.153 (1.285)	91	231505			0.00- 51.48	21.63
195 1,3-Dichlorobenzene					CAS #: 541-73-1		
12.196	12.196 (1.289)	146	515702	20.0000	19.622	80.00- 120.00	100.00
12.203	12.196 (1.290)	148	331017			33.21- 93.21	64.19
12.196	12.196 (1.289)	111	214395			11.31- 71.31	41.57
196 1,4-Dichlorobenzene					CAS #: 106-46-7		
12.311	12.311 (1.301)	146	514316	20.0000	19.523	80.00- 120.00	100.00
12.311	12.311 (1.301)	148	333938			33.90- 93.90	64.93
12.311	12.311 (1.301)	111	204966			9.45- 69.45	39.85
199 alpha-Chlorotoluene					CAS #: 100-44-7		
12.461	12.461 (1.317)	91	728285	20.0000	20.267	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
199 alpha-Chlorotoluene (continued)							
12.461	12.461 (1.317)	126	167108			0.00- 53.26	22.95
201 Undecane					CAS #: 1120-21-4		
12.640	12.640 (1.336)	57	833319	20.0000	19.843	80.00- 120.00	100.00
12.640	12.640 (1.336)	43	748015			58.12- 118.12	89.76
202 Butylbenzene					CAS #: 104-51-8		
12.626	12.626 (1.335)	134	269536	20.0000	20.284	80.00- 120.00	100.00
12.626	12.626 (1.335)	91	921873			314.79- 374.79	342.02
12.626	12.626 (1.335)	92	496131			154.29- 214.29	184.07
204 1,2-Dichlorobenzene					CAS #: 95-50-1		
12.741	12.741 (1.347)	146	516436	20.0000	20.144	80.00- 120.00	100.00
12.741	12.741 (1.347)	148	324827			33.84- 93.84	62.90
12.733	12.741 (1.346)	111	222511			12.73- 72.73	43.09
206 1,2-Dibromo-3-chloropropane					CAS #: 96-12-8		
13.600	13.600 (1.438)	157	313020	20.0000	20.327	80.00- 120.00	100.00
13.600	13.600 (1.438)	75	265111			52.48- 112.48	84.69
13.600	13.600 (1.438)	155	243659			47.41- 107.41	77.84
207 Dodecane					CAS #: 112-40-3		
13.801	13.801 (1.459)	57	755474	24.7000	24.812	80.00- 120.00	100.00
13.801	13.801 (1.459)	43	627549			52.87- 112.87	83.07
213 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
14.467	14.467 (1.529)	180	457157	25.2000	24.597	80.00- 120.00	100.00
14.467	14.467 (1.529)	182	438717			65.33- 125.33	95.97
215 Hexachlorobutadiene					CAS #: 87-68-3		
14.581	14.582 (1.541)	225	335930	25.7000	25.915	80.00- 120.00	100.00
14.581	14.582 (1.541)	223	210653			33.17- 93.17	62.71
216 Naphthalene					CAS #: 91-20-3		
14.761	14.768 (1.560)	128	112848	2.54000	2.343	80.00- 120.00	100.00
14.768	14.768 (1.561)	127	14592			0.00- 42.88	12.93
222 1,2,3-Trichlorobenzene					CAS #: 87-61-6		
15.069	15.069 (1.593)	180	420041	26.6000	25.838	80.00- 120.00	100.00
15.069	15.069 (1.593)	182	398636			65.75- 125.75	94.90
15.069	15.069 (1.593)	145	147343			5.23- 65.23	35.08

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p051907.d
Lab Smp Id: ICAL Level 6
Analysis Type: VOA
Quant Type: ISTD
Operator: LD
Method File: /chem/msdp.i/19MAY21.b/p21q0519a.m
Misc Info: 20ppbv (200ppbv)

Calibration Date: 19-MAY-2021
Calibration Time: 15:55
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	158810	95286	222334	161884	1.94
108 1,4-Difluorobenze	597103	358262	835944	591321	-0.97
153 Chlorobenzene-d5	587747	352648	822846	579226	-1.45

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.78	5.45	6.11	5.78	-0.00
108 1,4-Difluorobenze	6.66	6.33	6.99	6.66	-0.00
153 Chlorobenzene-d5	9.46	9.13	9.79	9.46	-0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msdp.i/19MAY21.b/p051907.d

Date : 19-MAY-2021 15:27

Client ID:

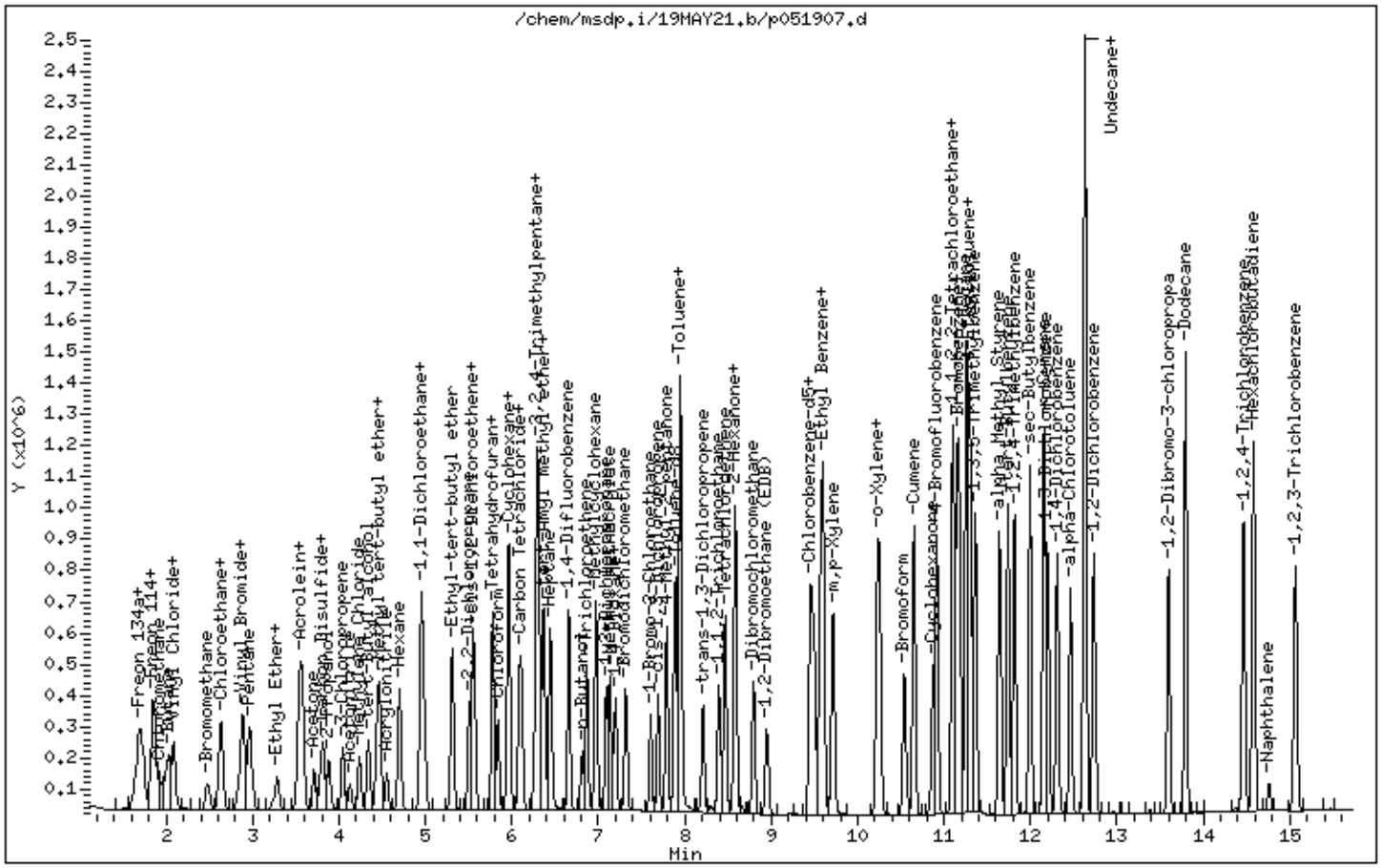
Instrument: msdp.i

Sample Info: 20mL 3018-2034

Operator: LD

Column phase: RTX-624

Column diameter: 0.25



US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/19MAY21.b/p051918.d
Lab Smp Id: ICAL Level 6
Inj Date : 19-MAY-2021 21:10
Operator : gh Inst ID: msdp.i
Smp Info : 20mL 3018-2013
Misc Info : 20ppbv (200ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/19MAY21.b/p21q0519a.m
Meth Date : 20-May-2021 09:50 lk8g Quant Type: ISTD
Cal Date : 19-MAY-2021 21:10 Cal File: p051918.d
Als bottle: 3 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT20spICAL.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 90 Bromochloromethane					CAS #: 74-97-5		
5.778	5.778 (1.000)	130	164276	25.0000		80.00- 120.00	100.00
5.778	5.778 (1.000)	128	126583			48.23- 108.23	77.06
5.771	5.778 (1.000)	49	292813			150.57- 210.57	178.24
* 108 1,4-Difluorobenzene					CAS #: 540-36-3		
6.659	6.659 (1.000)	114	594883	25.0000		80.00- 120.00	100.00
6.659	6.659 (1.000)	88	94502			0.00- 45.71	15.89
* 153 Chlorobenzene-d5					CAS #: 3114-55-4		
9.460	9.460 (1.000)	117	584012	25.0000		80.00- 120.00	100.00
9.453	9.460 (1.000)	82	316968			23.78- 83.78	54.27
3 Freon 143a					CAS #: 420-46-2		
1.577	1.590 (0.273)	65	63953	20.0000	19.336	80.00- 120.00	100.00
1.591	1.590 (0.275)	69	170661			243.50- 303.50	266.85
1.591	1.590 (0.275)	64	16338			0.00- 54.06	25.55
6 Propane					CAS #: 74-98-6		
1.674	1.674 (0.290)	43	46853	20.0000	15.945	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
6 Propane (continued)							
1.674	1.674 (0.290)	39	29481			34.98- 94.98	62.92
1.674	1.674 (0.290)	41	25457			25.22- 85.22	54.33
13 Freon 142b					CAS #: 75-68-3		
1.884	1.884 (0.326)	65	252531	20.0000	15.611	80.00- 120.00	100.00
1.884	1.884 (0.326)	45	76512			0.00- 59.77	30.30
36 1-Pentene					CAS #: 109-67-1		
2.906	2.906 (0.503)	55	180760	20.0000	16.998	80.00- 120.00	100.00
2.906	2.906 (0.503)	42	247205			105.17- 165.17	136.76
40 Freon 123a					CAS #: 354-23-4		
3.378	3.385 (0.585)	117	177874	20.0000	17.207	80.00- 120.00	100.00
3.378	3.378 (0.585)	67	248317			104.69- 164.69	139.60
41 Freon 123					CAS #: 306-83-2		
3.472	3.479 (0.601)	83	276366	20.0000	18.974	80.00- 120.00	100.00
3.479	3.479 (0.602)	133	56290			0.00- 50.87	20.37
3.472	3.479 (0.601)	85	179827			36.08- 96.08	65.07
55 Cyclopentene					CAS #: 142-29-0		
4.073	4.073 (0.705)	67	281294	20.0000	18.118	80.00- 120.00	100.00
4.073	4.073 (0.705)	68	105999			6.76- 66.76	37.68
4.066	4.073 (0.704)	53	78449			0.00- 57.54	27.89
56 Methyl Acetate					CAS #: 79-20-9		
4.073	4.073 (0.705)	43	314311	20.0000	17.425	80.00- 120.00	100.00
4.073	4.073 (0.705)	74	43403			0.00- 44.13	13.81
74 Chloroprene					CAS #: 126-99-8		
5.019	5.019 (0.869)	53	249821	20.0000	17.505	80.00- 120.00	100.00
5.019	5.019 (0.869)	88	97837			9.21- 69.21	39.16
5.019	5.019 (0.869)	50	60899			0.00- 54.25	24.38
75 1-Propanol					CAS #: 71-23-8		
5.083	5.083 (0.880)	59	33679	20.0000	15.446	80.00- 120.00	100.00
5.083	5.083 (0.880)	42	32228			63.23- 123.23	95.69
5.083	5.083 (0.880)	41	20019			24.74- 84.74	59.44
88 Methyl Acrylate					CAS #: 96-33-3		
5.620	5.620 (0.973)	55	317339	20.0000	16.802	80.00- 120.00	100.00
5.620	5.620 (0.973)	85	34842			0.00- 41.28	10.98
5.620	5.620 (0.973)	58	27405			0.00- 38.22	8.64
103 Isobutanol					CAS #: 78-83-1		
6.244	6.244 (1.081)	39	37572	20.0000	16.140	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
103 Isobutanol (continued)							
6.244	6.244 (1.081)	43	188703			448.18- 508.18	502.24
6.244	6.244 (1.081)	41	131184			299.99- 359.99	349.15
113 Ethyl acrylate					CAS #: 140-88-5		
6.938	6.938 (0.733)	99	23633	20.0000	17.406	80.00- 120.00	100.00
6.938	6.938 (0.733)	45	44798			149.95- 209.95	189.56
6.938	6.938 (0.733)	55	458959			1849.07-1909.07	1942.03
115 2-Pentanone					CAS #: 107-87-9		
7.032	7.031 (0.743)	43	549397	20.0000	18.604	80.00- 120.00	100.00
7.032	7.031 (0.743)	58	42813			0.00- 37.44	7.79
7.032	7.031 (0.743)	86	69391			0.00- 42.78	12.63
145 Butyl Acetate					CAS #: 123-86-4		
8.658	8.665 (1.300)	56	289132	20.0000	19.218	80.00- 120.00	100.00
8.665	8.665 (1.301)	73	85224			0.00- 59.10	29.48
8.658	8.657 (1.300)	43	710835			215.30- 275.30	245.85
157 1,1,1,2-Tetrachloroethane					CAS #: 630-20-6		
9.596	9.596 (1.014)	131	265099	20.0000	20.462	80.00- 120.00	100.00
9.460	9.460 (1.000)	117	584012			57.42- 117.42	220.30
9.596	9.596 (1.014)	95	96156			5.70- 65.70	36.27
166 2-Heptanone					CAS #: 110-43-0		
10.362	10.362 (1.793)	58	456297	20.0000	19.048	80.00- 120.00	100.00
10.362	10.362 (1.793)	43	750475			136.03- 196.03	164.47
172 D-Limonene					CAS #: 5989-27-5		
12.089	12.089 (1.278)	68	366276	20.0000	30.886	80.00- 120.00	100.00
12.089	12.089 (1.278)	93	252611			39.41- 99.41	68.97
186 4-Chlorotoluene					CAS #: 106-43-4		
11.444	11.444 (1.210)	126	233965	20.0000	19.501	80.00- 120.00	100.00
11.444	11.444 (1.210)	91	762751			295.02- 355.02	326.01
11.444	11.444 (1.210)	63	101096			11.82- 71.82	43.21
197 1,2,3-Trimethylbenzene					CAS #: 526-73-8		
12.318	12.318 (1.302)	120	356670	20.0000	20.382	80.00- 120.00	100.00
12.318	12.318 (1.302)	105	795713			192.40- 252.40	223.10
12.318	12.318 (1.302)	77	89457			0.00- 54.69	25.08
205 Hexachloroethane					CAS #: 67-72-1		
12.970	12.970 (1.371)	201	175433	20.0000	27.542	80.00- 120.00	100.00
12.970	12.970 (1.371)	117	236009			102.99- 162.99	134.53

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
208 1,3,5-Trichlorobenzene					CAS #: 108-70-3		
13.758	13.758 (1.454)	180	464814	20.0000	19.008	80.00- 120.00	100.00
13.758	13.758 (1.454)	182	442074			65.24- 125.24	95.11
210 alpha-Pinene					CAS #: 80-56-8		
10.599	10.599 (1.120)	93	504688	20.0000	21.723	80.00- 120.00	100.00
10.599	10.599 (1.120)	77	146698			0.00- 58.21	29.07
214 beta-Pinene					CAS #: 127-91-3		
11.423	11.422 (1.207)	93	403829	20.0000	27.931	80.00- 120.00	100.00
11.444	11.444 (1.210)	91	762751			153.57- 213.57	188.88

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p051918.d
Lab Smp Id: ICAL Level 6
Analysis Type: VOA
Quant Type: ISTD
Operator: gh
Method File: /chem/msdp.i/19MAY21.b/p21q0519a.m
Misc Info: 20ppbv (200ppbv)

Calibration Date: 19-MAY-2021
Calibration Time: 15:55
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	158810	95286	222334	164276	3.44
108 1,4-Difluorobenze	597103	358262	835944	594883	-0.37
153 Chlorobenzene-d5	587747	352648	822846	584012	-0.64

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.78	5.45	6.11	5.78	-0.00
108 1,4-Difluorobenze	6.66	6.33	6.99	6.66	-0.00
153 Chlorobenzene-d5	9.46	9.13	9.79	9.46	-0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msdp.i/19MAY21.b/p051918.d

Date : 19-MAY-2021 21:10

Client ID:

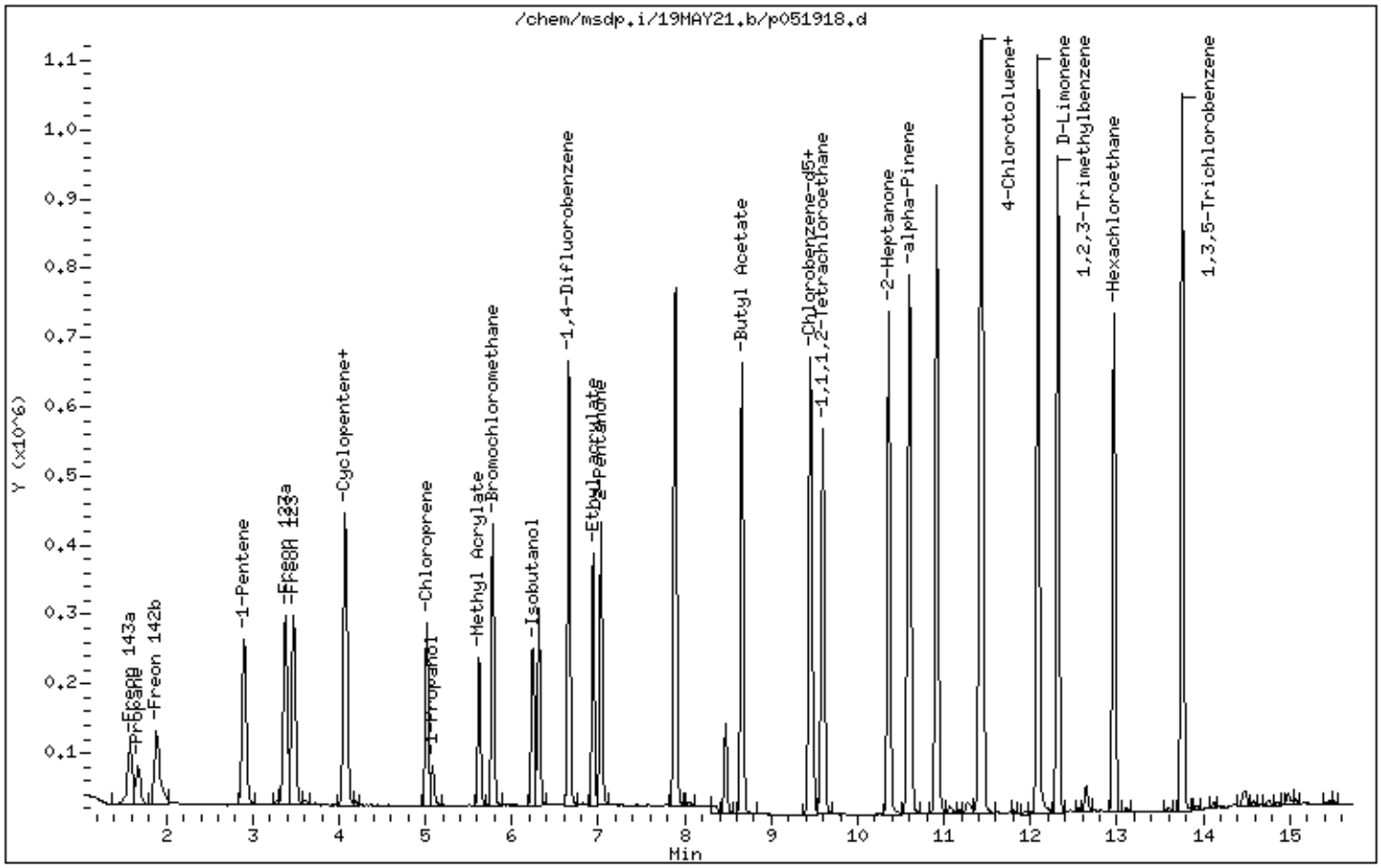
Instrument: msdp.i

Sample Info: 20mL 3018-2013

Operator: gh

Column phase: RTX-624

Column diameter: 0.25



US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/19MAY21.b/p051908.d
Lab Smp Id: ICAL Level 7
Inj Date : 19-MAY-2021 15:55
Operator : LD Inst ID: msdp.i
Smp Info : 50mL 3018-2034
Misc Info : 50ppbv (200ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/19MAY21.b/p21q0519a.m
Meth Date : 20-May-2021 09:49 lk8g Quant Type: ISTD
Cal Date : 19-MAY-2021 21:38 Cal File: p051919.d
Als bottle: 13 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT20ICAL.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
4 Freon 134a					CAS #: 811-97-2		
1.633	1.633 (0.283)	83	246691	50.0000	50.000	80.00- 120.00	100.00
1.633	1.633 (0.283)	69	220643			59.44- 119.44	89.44
1.745	1.745 (0.302)	51	1107781			419.06- 479.06	449.06
5 Propylene					CAS #: 115-07-1		
1.675	1.675 (0.290)	41	345627	50.0000	50.000	80.00- 120.00	100.00
1.675	1.675 (0.290)	42	225623			35.28- 95.28	65.28
1.675	1.675 (0.290)	39	236222			38.35- 98.35	68.35
7 1,1-Difluoroethane					CAS #: 75-37-6		
1.703	1.703 (0.295)	65	176502	50.0000	50.000	80.00- 120.00	100.00
1.745	1.745 (0.302)	51	1107781			597.63- 657.63	627.63
1.703	1.703 (0.295)	47	112469			33.72- 93.72	63.72
8 Freon 12					CAS #: 75-71-8		
1.717	1.717 (0.297)	85	711177	50.0000	50.000	80.00- 120.00	100.00
1.717	1.717 (0.297)	87	230217			2.37- 62.37	32.37
9 Chlorodifluoromethane					CAS #: 75-45-6		
1.745	1.745 (0.302)	67	72356	50.0000	50.000	80.00- 120.00	100.00

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
9 Chlorodifluoromethane (continued)							
1.745	1.745 (0.302)	51	1107781			1501.01-1561.01	1531.01
10 Freon 114					CAS #: 76-14-2		
1.856	1.856 (0.321)	135	685577	50.0000	50.000	80.00- 120.00	100.00
1.856	1.856 (0.321)	137	221438			2.30- 62.30	32.30
12 Isobutane					CAS #: 75-28-5		
1.870	1.870 (0.324)	43	735430	50.0000	50.000	80.00- 120.00	100.00
1.870	1.870 (0.324)	42	238581			2.44- 62.44	32.44
1.856	1.856 (0.321)	58	24710			0.00- 33.36	3.36
15 Chloromethane					CAS #: 74-87-3		
1.940	1.940 (0.336)	50	447790	50.0000	50.000	80.00- 120.00	100.00
1.940	1.940 (0.336)	52	117587			0.00- 56.26	26.26
18 Butane					CAS #: 106-97-8		
2.025	2.025 (0.350)	58	75310	50.0000	50.000	80.00- 120.00	100.00
2.025	2.025 (0.350)	43	642610			823.29- 883.29	853.29
19 Vinyl Chloride					CAS #: 75-01-4		
2.068	2.068 (0.358)	62	454203	50.0000	50.000	80.00- 120.00	100.00
2.068	2.068 (0.358)	64	134867			0.00- 59.69	29.69
20 1,3-Butadiene					CAS #: 106-99-0		
2.089	2.089 (0.362)	54	422955	50.0000	50.000	80.00- 120.00	100.00
2.089	2.089 (0.362)	39	348369			52.37- 112.37	82.37
24 Bromomethane					CAS #: 74-83-9		
2.483	2.483 (0.430)	94	285084	50.0000	50.000	80.00- 120.00	100.00
2.483	2.483 (0.430)	96	268184			64.07- 124.07	94.07
30 Chloroethane					CAS #: 75-00-3		
2.612	2.612 (0.452)	64	167305	50.0000	50.000	80.00- 120.00	100.00
2.605	2.605 (0.451)	66	50256			0.04- 60.04	30.04
2.612	2.612 (0.452)	49	57784			4.54- 64.54	34.54
31 Isopentane					CAS #: 78-78-4		
2.634	2.634 (0.456)	43	523495	50.0000	50.000	80.00- 120.00	100.00
2.641	2.641 (0.457)	57	335680			34.12- 94.12	64.12
32 Vinyl Bromide					CAS #: 593-60-2		
2.841	2.841 (0.492)	106	275173	50.0000	50.000	80.00- 120.00	100.00
2.841	2.841 (0.492)	108	273159			69.27- 129.27	99.27
33 Freon 11					CAS #: 75-69-4		
2.884	2.884 (0.499)	101	730878	50.0000	50.000	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
33 Freon 11 (continued)							
2.884	2.884 (0.499)	103	472992			34.72- 94.72	64.72
34 Dichlorofluoromethane					CAS #: 75-43-4		
2.899	2.899 (0.502)	67	628672	50.0000	50.000	80.00- 120.00	100.00
2.899	2.899 (0.502)	69	193895			0.84- 60.84	30.84
35 Pentane					CAS #: 109-66-0		
2.970	2.970 (0.514)	43	852276	50.0000	50.000	80.00- 120.00	100.00
2.970	2.970 (0.514)	57	127691			0.00- 44.98	14.98
2.970	2.970 (0.514)	72	63019			0.00- 37.39	7.39
38 Ethyl Ether					CAS #: 60-29-7		
3.285	3.285 (0.569)	74	146830	50.0000	50.000	80.00- 120.00	100.00
3.285	3.285 (0.569)	59	284064			163.46- 223.46	193.46
3.285	3.285 (0.569)	45	411715			250.40- 310.40	280.40
39 Ethanol					CAS #: 64-17-5		
3.242	3.242 (0.561)	46	75752	50.0000	50.000	80.00- 120.00	100.00
3.285	3.285 (0.569)	45	409963			511.19- 571.19	541.19
42 Acrolein					CAS #: 107-02-8		
3.529	3.529 (0.611)	55	129512	50.0000	50.000	80.00- 120.00	100.00
3.529	3.529 (0.611)	56	182747			111.10- 171.10	141.10
43 Freon 113					CAS #: 76-13-1		
3.550	3.550 (0.614)	151	547261	50.0000	50.000	80.00- 120.00	100.00
3.550	3.550 (0.614)	153	347836			33.56- 93.56	63.56
3.550	3.550 (0.614)	101	652410			89.21- 149.21	119.21
44 1,1-Dichloroethene					CAS #: 75-35-4		
3.579	3.579 (0.619)	96	312049	50.0000	50.000	80.00- 120.00	100.00
3.579	3.579 (0.619)	98	199778			34.02- 94.02	64.02
3.579	3.579 (0.619)	61	620248			168.77- 228.77	198.77
47 Acetone					CAS #: 67-64-1		
3.708	3.708 (0.642)	58	198391	50.0000	50.000	80.00- 120.00	100.00
3.708	3.708 (0.642)	43	660552			302.95- 362.95	332.95
48 Carbon Disulfide					CAS #: 75-15-0		
3.823	3.823 (0.662)	76	846836	50.0000	50.000	80.00- 120.00	100.00
49 Iodomethane					CAS #: 74-88-4		
3.794	3.794 (0.657)	142	699816	50.0000	50.000	80.00- 120.00	100.00
3.794	3.794 (0.657)	127	295430			12.22- 72.22	42.22

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
52 2-Propanol					CAS #: 67-63-0		
3.887	3.887 (0.673)	45	823329	50.0000	50.000	80.00- 120.00	100.00
3.887	3.887 (0.673)	43	141505			0.00- 47.19	17.19
54 3-Chloropropene					CAS #: 107-05-1		
4.052	4.052 (0.701)	76	142539	50.0000	50.000	80.00- 120.00	100.00
4.045	4.045 (0.700)	41	607488			396.19- 456.19	426.19
57 Acetonitrile					CAS #: 75-05-8		
4.123	4.123 (0.714)	41	379243	50.0000	50.000	80.00- 120.00	100.00
4.123	4.123 (0.714)	40	193207			20.95- 80.95	50.95
4.123	4.123 (0.714)	38	42379			0.00- 41.17	11.17
59 Methylene Chloride					CAS #: 75-09-2		
4.238	4.238 (0.733)	49	522699	50.0000	50.000	80.00- 120.00	100.00
4.238	4.238 (0.733)	84	271957			22.03- 82.03	52.03
4.238	4.238 (0.733)	51	157735			0.18- 60.18	30.18
62 tert-Butyl alcohol					CAS #: 75-65-0		
4.338	4.338 (0.751)	59	920285	50.0000	50.000	80.00- 120.00	100.00
4.338	4.338 (0.751)	41	194304			0.00- 51.11	21.11
4.338	4.338 (0.751)	57	96551			0.00- 40.49	10.49
63 Methyl tert-butyl ether					CAS #: 1634-04-4		
4.446	4.446 (0.769)	73	938706	50.0000	50.000	80.00- 120.00	100.00
4.446	4.446 (0.769)	57	310725			3.10- 63.10	33.10
4.446	4.446 (0.769)	41	293659			1.28- 61.28	31.28
64 trans-1,2-Dichloroethene					CAS #: 156-60-5		
4.482	4.482 (0.776)	98	212528	50.0000	50.000	80.00- 120.00	100.00
4.474	4.474 (0.774)	61	607494			255.84- 315.84	285.84
4.482	4.482 (0.776)	96	334925			127.59- 187.59	157.59
66 Acrylonitrile					CAS #: 107-13-1		
4.560	4.560 (0.789)	52	293221	50.0000	50.000	80.00- 120.00	100.00
4.560	4.560 (0.789)	53	346138			88.05- 148.05	118.05
67 Hexane					CAS #: 110-54-3		
4.697	4.697 (0.813)	57	758783	50.0000	50.000	80.00- 120.00	100.00
4.697	4.697 (0.813)	43	512299			37.52- 97.52	67.52
4.697	4.697 (0.813)	86	87084			0.00- 41.48	11.48
71 1,1-Dichloroethane					CAS #: 75-34-3		
4.962	4.962 (0.859)	63	664501	50.0000	50.000	80.00- 120.00	100.00
4.962	4.962 (0.859)	65	197374			0.00- 59.70	29.70

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
72 Isopropyl ether						CAS #: 108-20-3	
4.954	4.954 (0.857)	45	1800515	50.0000	50.000	80.00- 120.00	100.00
4.954	4.954 (0.857)	87	327418			0.00- 48.18	18.18
4.954	4.954 (0.857)	59	182720			0.00- 40.15	10.15
73 Vinyl Acetate						CAS #: 108-05-4	
4.997	4.997 (0.865)	86	84247	50.0000	50.000	80.00- 120.00	100.00
4.990	4.990 (0.864)	43	2074564			2432.48-2492.48	2462.48
79 Ethyl-tert-butyl ether						CAS #: 637-92-3	
5.305	5.305 (0.918)	59	1553756	50.0000	50.000	80.00- 120.00	100.00
5.305	5.305 (0.918)	87	481611			1.00- 61.00	31.00
5.305	5.305 (0.918)	41	291010			0.00- 48.73	18.73
84 2,2-Dichloropropane						CAS #: 594-20-7	
5.506	5.506 (0.953)	77	589524	50.0000	50.000	80.00- 120.00	100.00
5.506	5.506 (0.953)	79	190269			2.28- 62.28	32.28
5.506	5.506 (0.953)	97	141063			0.00- 53.93	23.93
85 cis-1,2-Dichloroethene						CAS #: 156-59-2	
5.549	5.549 (0.960)	98	230520	50.0000	50.000	80.00- 120.00	100.00
5.549	5.549 (0.960)	96	359034			125.75- 185.75	155.75
5.549	5.549 (0.960)	61	835407			332.40- 392.40	362.40
86 2-Butanone						CAS #: 78-93-3	
5.556	5.556 (0.962)	72	170377	50.0000	50.000	80.00- 120.00	100.00
5.563	5.563 (0.963)	43	2120337			1214.50-1274.50	1244.50
5.556	5.556 (0.962)	57	76128			14.68- 74.68	44.68
87 Ethyl Acetate						CAS #: 141-78-6	
5.570	5.570 (0.964)	45	173307	50.0000	50.000	80.00- 120.00	100.00
5.549	5.549 (0.960)	61	835407			452.04- 512.04	482.04
5.570	5.570 (0.964)	70	91460			22.77- 82.77	52.77
89 Tetrahydrofuran						CAS #: 109-99-9	
5.771	5.771 (0.999)	42	583804	50.0000	50.000	80.00- 120.00	100.00
5.771	5.771 (0.999)	71	150745			0.00- 55.82	25.82
5.771	5.771 (0.999)	72	161049			0.00- 57.59	27.59
* 90 Bromochloromethane						CAS #: 74-97-5	
5.778	5.778 (1.000)	130	158810	25.0000		80.00- 120.00	100.00
5.778	5.778 (1.000)	128	124237			48.23- 108.23	78.23
5.778	5.778 (1.000)	49	286765			150.57- 210.57	180.57
92 Chloroform						CAS #: 67-66-3	
5.835	5.835 (1.010)	83	689555	50.0000	50.000	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
92 Chloroform (continued)							
5.835	5.835 (1.010)	85	446160			34.70- 94.70	64.70
94 Cyclohexane					CAS #: 110-82-7		
5.957	5.957 (1.031)	84	486964	50.0000	50.000	80.00- 120.00	100.00
5.957	5.957 (1.031)	56	840372			142.57- 202.57	172.57
5.957	5.957 (1.031)	41	448455			62.09- 122.09	92.09
96 1,1,1-Trichloroethane					CAS #: 71-55-6		
5.972	5.972 (1.033)	97	752510	50.0000	50.000	80.00- 120.00	100.00
5.972	5.972 (1.033)	99	481725			34.02- 94.02	64.02
97 Carbon Tetrachloride					CAS #: 56-23-5		
6.086	6.086 (1.053)	119	735285	50.0000	50.000	80.00- 120.00	100.00
6.086	6.086 (1.053)	117	739982			70.64- 130.64	100.64
99 1,1-Dichloropropene					CAS #: 563-58-6		
6.115	6.115 (0.918)	110	197564	50.0000	50.000	80.00- 120.00	100.00
6.115	6.115 (0.918)	75	507450			226.85- 286.85	256.85
101 2,2,4-Trimethylpentane					CAS #: 540-84-1		
6.280	6.280 (1.087)	57	2728265	50.0000	50.000	80.00- 120.00	100.00
6.280	6.280 (1.087)	56	879725			2.24- 62.24	32.24
6.280	6.280 (1.087)	41	665520			0.00- 54.39	24.39
102 Benzene					CAS #: 71-43-2		
6.301	6.301 (0.946)	78	987337	50.0000	50.000	80.00- 120.00	100.00
6.301	6.301 (0.946)	77	226078			0.00- 52.90	22.90
$ 104 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
6.308	6.308 (1.092)	65	213713	25.0000	25.000	80.00- 120.00	100.00
6.308	6.308 (1.092)	67	122256			27.21- 87.21	57.21
105 tert-Amyl methyl ether					CAS #: 994-05-8		
6.358	6.358 (0.955)	87	279227	50.0000	50.000	80.00- 120.00	100.00
6.358	6.358 (0.955)	73	1124694			372.79- 432.79	402.79
6.358	6.358 (0.955)	55	396758			112.09- 172.09	142.09
106 1,2-Dichloroethane					CAS #: 107-06-2		
6.380	6.380 (0.958)	62	526134	50.0000	50.000	80.00- 120.00	100.00
6.380	6.380 (0.958)	64	162017			0.79- 60.79	30.79
107 Heptane					CAS #: 142-82-5		
6.444	6.444 (0.968)	71	395953	50.0000	50.000	80.00- 120.00	100.00
6.444	6.444 (0.968)	43	1015753			226.53- 286.53	256.53
6.444	6.444 (0.968)	57	518123			100.85- 160.85	130.85

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 108 1,4-Difluorobenzene						CAS #: 540-36-3	
6.659	6.659 (1.000)	114	597103	25.0000		80.00- 120.00	100.00
6.659	6.659 (1.000)	88	93822			0.00- 45.71	15.71
110 n-Butanol						CAS #: 71-36-3	
6.810	6.810 (1.023)	56	364840	50.0000	50.000	80.00- 120.00	100.00
6.810	6.810 (1.023)	41	258986			40.99- 100.99	70.99
6.810	6.810 (1.023)	43	209354			27.38- 87.38	57.38
111 Trichloroethene						CAS #: 79-01-6	
6.867	6.867 (1.031)	95	478111	50.0000	50.000	80.00- 120.00	100.00
6.867	6.867 (1.031)	130	508207			76.29- 136.29	106.29
6.867	6.867 (1.031)	97	304245			33.63- 93.63	63.63
114 1,2-Dichloropropane						CAS #: 78-87-5	
7.089	7.089 (1.065)	63	491834	50.0000	50.000	80.00- 120.00	100.00
7.089	7.089 (1.065)	62	349523			41.07- 101.07	71.07
7.096	7.096 (1.066)	41	258375			22.53- 82.53	52.53
116 Methyl Methacrylate						CAS #: 80-62-6	
7.132	7.132 (0.754)	69	400937	50.0000	50.000	80.00- 120.00	100.00
7.132	7.132 (0.754)	41	841331			179.84- 239.84	209.84
7.139	7.139 (0.755)	100	158742			9.59- 69.59	39.59
117 1,4-Dioxane						CAS #: 123-91-1	
7.175	7.175 (1.077)	88	263150	50.0000	50.000	80.00- 120.00	100.00
7.175	7.175 (1.077)	58	258613			68.28- 128.28	98.28
7.175	7.175 (1.077)	57	86007			2.68- 62.68	32.68
118 Dibromomethane						CAS #: 74-95-3	
7.204	7.204 (0.761)	174	444945	50.0000	50.000	80.00- 120.00	100.00
7.204	7.204 (0.761)	93	400838			60.09- 120.09	90.09
7.204	7.204 (0.761)	95	348769			48.38- 108.38	78.38
122 Bromodichloromethane						CAS #: 75-27-4	
7.318	7.318 (1.099)	83	751298	50.0000	50.000	80.00- 120.00	100.00
7.318	7.318 (1.099)	85	490118			35.24- 95.24	65.24
126 cis-1,3-Dichloropropene						CAS #: 10061-01-5	
7.691	7.691 (1.155)	75	619937	50.0000	50.000	80.00- 120.00	100.00
7.691	7.691 (1.155)	77	200964			2.42- 62.42	32.42
7.691	7.691 (1.155)	39	416341			37.16- 97.16	67.16
127 Methylcyclohexane						CAS #: 108-87-2	
6.974	6.974 (1.047)	83	700725	50.0000	50.000	80.00- 120.00	100.00
6.974	6.974 (1.047)	98	320784			15.78- 75.78	45.78

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
127 Methylcyclohexane (continued)							
6.974	6.974 (1.047)	55	803336			84.64- 144.64	114.64
131 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.791	7.791 (1.170)	58	494934	50.0000	50.000	80.00- 120.00	100.00
7.791	7.791 (1.170)	43	1347937			242.35- 302.35	272.35
7.791	7.791 (1.170)	85	164527			3.24- 63.24	33.24
$ 134 Toluene-d8					CAS #: 2037-26-5		
7.891	7.891 (1.185)	98	647681	25.0000	25.000	80.00- 120.00	100.00
7.891	7.891 (1.185)	70	67618			0.00- 40.44	10.44
7.891	7.891 (1.185)	100	420696			34.95- 94.95	64.95
137 Toluene					CAS #: 108-88-3		
7.949	7.949 (1.194)	91	1352715	50.0000	50.000	80.00- 120.00	100.00
7.949	7.949 (1.194)	92	789761			28.38- 88.38	58.38
136 Octane					CAS #: 111-65-9		
7.949	7.949 (1.194)	57	571594	50.0000	50.000	80.00- 120.00	100.00
7.949	7.949 (1.194)	85	491595			56.00- 116.00	86.00
7.949	7.949 (1.194)	43	1478464			228.66- 288.66	258.66
139 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
8.214	8.214 (0.868)	75	595661	50.0000	50.000	80.00- 120.00	100.00
8.214	8.214 (0.868)	77	186109			1.24- 61.24	31.24
8.214	8.214 (0.868)	39	381886			34.11- 94.11	64.11
141 1,1,2-Trichloroethane					CAS #: 79-00-5		
8.400	8.400 (0.888)	97	475355	50.0000	50.000	80.00- 120.00	100.00
8.400	8.400 (0.888)	99	294547			31.96- 91.96	61.96
8.400	8.400 (0.888)	83	394203			52.93- 112.93	82.93
142 Tetrachloroethene					CAS #: 127-18-4		
8.464	8.464 (0.895)	166	677222	50.0000	50.000	80.00- 120.00	100.00
8.464	8.464 (0.895)	129	527121			47.84- 107.84	77.84
8.464	8.464 (0.895)	131	509856			45.29- 105.29	75.29
143 2-Hexanone					CAS #: 591-78-6		
8.586	8.586 (0.908)	58	681778	50.0000	50.000	80.00- 120.00	100.00
8.586	8.586 (0.908)	43	1314958			162.87- 222.87	192.87
8.586	8.586 (0.908)	100	108687			0.00- 45.94	15.94
144 1,3-Dichloropropane					CAS #: 142-28-9		
8.579	8.579 (1.288)	76	664559	50.0000	50.000	80.00- 120.00	100.00
8.579	8.579 (1.288)	41	830619			94.99- 154.99	124.99
8.579	8.579 (1.288)	78	212995			2.05- 62.05	32.05

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
146 Dibromochloromethane					CAS #: 124-48-1		
8.801	8.801 (0.930)	129	909694	50.0000	50.000	80.00- 120.00	100.00
8.801	8.801 (0.930)	127	704539			47.45- 107.45	77.45
148 1,2-Dibromoethane (EDB)					CAS #: 106-93-4		
8.951	8.951 (0.946)	107	776769	50.0000	50.000	80.00- 120.00	100.00
8.951	8.951 (0.946)	109	731780			64.21- 124.21	94.21
151 1-Bromo-2-Chloroethane					CAS #: 107-04-0		
7.605	7.605 (1.142)	63	919549	50.0000	50.000	80.00- 120.00	100.00
7.605	7.605 (1.142)	65	272524			0.00- 59.64	29.64
7.605	7.605 (1.142)	144	88579			0.00- 39.63	9.63
* 153 Chlorobenzene-d5					CAS #: 3114-55-4		
9.460	9.460 (1.000)	117	587747	25.0000		80.00- 120.00	100.00
9.460	9.460 (1.000)	82	316106			23.78- 83.78	53.78
154 Chlorobenzene					CAS #: 108-90-7		
9.496	9.496 (1.004)	112	1161228	50.0000	50.000	80.00- 120.00	100.00
9.496	9.496 (1.004)	114	368543			1.74- 61.74	31.74
9.496	9.496 (1.004)	77	639171			25.04- 85.04	55.04
155 Ethyl Benzene					CAS #: 100-41-4		
9.567	9.567 (1.011)	106	611900	50.0000	50.000	80.00- 120.00	100.00
9.567	9.567 (1.011)	91	1858590			273.74- 333.74	303.74
156 Nonane					CAS #: 111-84-2		
9.596	9.596 (1.014)	43	1549739	50.0000	50.000	80.00- 120.00	100.00
9.603	9.603 (1.015)	57	1304255			54.16- 114.16	84.16
9.603	9.603 (1.015)	85	370362			0.00- 53.90	23.90
158 m,p-Xylene					CAS #: 108-38-3		
9.718	9.718 (1.027)	106	756872	50.0000	50.000	80.00- 120.00	100.00
9.718	9.718 (1.027)	91	1466255			163.73- 223.73	193.73
164 o-Xylene					CAS #: 95-47-6		
10.226	10.226 (1.081)	106	727897	50.0000	50.000	80.00- 120.00	100.00
10.226	10.226 (1.081)	91	1509987			177.45- 237.45	207.45
165 Styrene					CAS #: 100-42-5		
10.255	10.255 (1.084)	104	1231272	50.0000	50.000	80.00- 120.00	100.00
10.255	10.255 (1.084)	78	589570			17.88- 77.88	47.88
167 Bromoform					CAS #: 75-25-2		
10.542	10.542 (1.114)	173	900150	50.0000	50.000	80.00- 120.00	100.00
10.542	10.542 (1.114)	171	461304			21.25- 81.25	51.25

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
168 Cumene					CAS #: 98-82-8		
10.649	10.649 (1.126)	105	2299741	50.0000	50.000	80.00- 120.00	100.00
10.649	10.649 (1.126)	120	655786			0.00- 58.52	28.52
10.649	10.649 (1.126)	51	299021			0.00- 43.00	13.00
169 Cyclohexanone					CAS #: 108-94-1		
10.871	10.871 (1.149)	55	806258	50.0000	50.000	80.00- 120.00	100.00
10.871	10.871 (1.149)	98	257503			1.94- 61.94	31.94
10.871	10.871 (1.149)	42	547332			37.89- 97.89	67.89
$ 170 4-Bromofluorobenzene					CAS #: 460-00-4		
10.921	10.921 (1.154)	174	374384	25.0000	25.000	80.00- 120.00	100.00
10.914	10.914 (1.154)	95	471423			95.92- 155.92	125.92
10.921	10.921 (1.154)	176	362754			66.89- 126.89	96.89
175 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
11.100	11.100 (1.173)	83	1121488	50.0000	50.000	80.00- 120.00	100.00
11.107	11.107 (1.174)	85	731261			35.20- 95.20	65.20
177 Bromobenzene					CAS #: 108-86-1		
11.107	11.107 (1.174)	156	708749	50.0000	50.000	80.00- 120.00	100.00
11.107	11.107 (1.174)	158	689001			67.21- 127.21	97.21
11.179	11.179 (1.182)	77	418295			29.02- 89.02	59.02
178 Propylbenzene					CAS #: 103-65-1		
11.150	11.150 (1.179)	120	677615	50.0000	50.000	80.00- 120.00	100.00
11.150	11.150 (1.179)	91	2686688			366.49- 426.49	396.49
11.150	11.150 (1.179)	105	100610			0.00- 44.85	14.85
179 1,2,3-Trichloropropane					CAS #: 96-18-4		
11.179	11.179 (1.182)	110	347438	50.0000	50.000	80.00- 120.00	100.00
11.179	11.179 (1.182)	75	1078964			280.55- 340.55	310.55
11.100	11.100 (1.173)	61	158059			15.49- 75.49	45.49
181 trans-1,4-Dichloro-2-butene					CAS #: 110-57-6		
11.179	11.179 (1.182)	53	236389	50.0000	50.000	80.00- 120.00	100.00
11.179	11.179 (1.182)	89	187005			49.11- 109.11	79.11
11.179	11.179 (1.182)	75	1078964			426.44- 486.44	456.44
182 Decane					CAS #: 124-18-5		
11.251	11.251 (1.189)	57	1759170	50.0000	50.000	80.00- 120.00	100.00
11.251	11.251 (1.189)	71	486507			0.00- 57.66	27.66
11.258	11.258 (1.190)	142	71926			0.00- 34.09	4.09
183 4-Ethyltoluene					CAS #: 622-96-8		
11.287	11.287 (1.193)	120	721963	50.0000	50.000	80.00- 120.00	100.00

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
183 4-Ethyltoluene (continued)							
11.287	11.287 (1.193)	105	2270938			284.55- 344.55	314.55
184 2-Chlorotoluene					CAS #: 95-49-8		
11.308	11.308 (1.195)	126	572035	50.0000	50.000	80.00- 120.00	100.00
11.308	11.308 (1.195)	91	1974474			315.17- 375.17	345.17
11.301	11.301 (1.195)	65	294904			21.55- 81.55	51.55
185 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
11.365	11.365 (1.201)	120	1021220	50.0000	50.000	80.00- 120.00	100.00
11.365	11.365 (1.201)	105	1990658			164.93- 224.93	194.93
188 alpha Methyl Styrene					CAS #: 98-83-9		
11.645	11.645 (1.231)	118	1032008	50.0000	50.000	80.00- 120.00	100.00
11.645	11.645 (1.231)	103	570738			25.30- 85.30	55.30
189 tert-Butylbenzene					CAS #: 98-06-6		
11.738	11.738 (1.241)	119	1907239	50.0000	50.000	80.00- 120.00	100.00
11.738	11.738 (1.241)	134	462558			0.00- 54.25	24.25
11.738	11.738 (1.241)	91	1168575			31.27- 91.27	61.27
190 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
11.817	11.817 (1.249)	105	1923799	50.0000	50.000	80.00- 120.00	100.00
11.817	11.817 (1.249)	120	943605			19.05- 79.05	49.05
192 sec-Butylbenzene					CAS #: 135-98-8		
11.996	11.996 (1.268)	134	595687	50.0000	50.000	80.00- 120.00	100.00
11.996	11.996 (1.268)	105	2785108			437.55- 497.55	467.55
11.996	11.996 (1.268)	91	421521			40.76- 100.76	70.76
194 p-Cymene					CAS #: 99-87-6		
12.160	12.160 (1.285)	119	2621026	50.0000	50.000	80.00- 120.00	100.00
12.160	12.160 (1.285)	134	669378			0.00- 55.54	25.54
12.153	12.153 (1.285)	91	562900			0.00- 51.48	21.48
195 1,3-Dichlorobenzene					CAS #: 541-73-1		
12.196	12.196 (1.289)	146	1326539	50.0000	50.000	80.00- 120.00	100.00
12.203	12.203 (1.290)	148	838543			33.21- 93.21	63.21
12.196	12.196 (1.289)	111	547931			11.31- 71.31	41.31
196 1,4-Dichlorobenzene					CAS #: 106-46-7		
12.311	12.311 (1.301)	146	1341343	50.0000	50.000	80.00- 120.00	100.00
12.311	12.311 (1.301)	148	857150			33.90- 93.90	63.90
12.311	12.311 (1.301)	111	529140			9.45- 69.45	39.45
199 alpha-Chlorotoluene					CAS #: 100-44-7		
12.461	12.461 (1.317)	91	1864560	50.0000	50.000	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
199 alpha-Chlorotoluene (continued)							
12.461	12.461 (1.317)	126	433710			0.00- 53.26	23.26
201 Undecane					CAS #: 1120-21-4		
12.640	12.640 (1.336)	57	2085733	50.0000	50.000	80.00- 120.00	100.00
12.640	12.640 (1.336)	43	1838043			58.12- 118.12	88.12
202 Butylbenzene					CAS #: 104-51-8		
12.626	12.626 (1.335)	134	662478	50.0000	50.000	80.00- 120.00	100.00
12.626	12.626 (1.335)	91	2284179			314.79- 374.79	344.79
12.626	12.626 (1.335)	92	1220868			154.29- 214.29	184.29
204 1,2-Dichlorobenzene					CAS #: 95-50-1		
12.741	12.741 (1.347)	146	1281765	50.0000	50.000	80.00- 120.00	100.00
12.741	12.741 (1.347)	148	818290			33.84- 93.84	63.84
12.733	12.733 (1.346)	111	547687			12.73- 72.73	42.73
206 1,2-Dibromo-3-chloropropane					CAS #: 96-12-8		
13.600	13.600 (1.438)	157	800345	50.0000	50.000	80.00- 120.00	100.00
13.600	13.600 (1.438)	75	660103			52.48- 112.48	82.48
13.600	13.600 (1.438)	155	619570			47.41- 107.41	77.41
207 Dodecane					CAS #: 112-40-3		
13.801	13.801 (1.459)	57	2143839	61.8000	61.800	80.00- 120.00	100.00
13.801	13.801 (1.459)	43	1776648			52.87- 112.87	82.87
213 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
14.467	14.467 (1.529)	180	1233138	63.0000	63.000	80.00- 120.00	100.00
14.467	14.467 (1.529)	182	1175567			65.33- 125.33	95.33
215 Hexachlorobutadiene					CAS #: 87-68-3		
14.582	14.582 (1.541)	225	895709	64.4000	64.400	80.00- 120.00	100.00
14.582	14.582 (1.541)	223	565855			33.17- 93.17	63.17
216 Naphthalene					CAS #: 91-20-3		
14.768	14.768 (1.561)	128	306016	6.35000	6.350	80.00- 120.00	100.00
14.768	14.768 (1.561)	127	39402			0.00- 42.88	12.88
222 1,2,3-Trichlorobenzene					CAS #: 87-61-6		
15.069	15.069 (1.593)	180	1163980	66.6000	66.600	80.00- 120.00	100.00
15.069	15.069 (1.593)	182	1114530			65.75- 125.75	95.75
15.069	15.069 (1.593)	145	410098			5.23- 65.23	35.23

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p051908.d
Lab Smp Id: ICAL Level 7
Analysis Type: VOA
Quant Type: ISTD
Operator: LD
Method File: /chem/msdp.i/19MAY21.b/p21q0519a.m
Misc Info: 50ppbv (200ppbv)

Calibration Date: 19-MAY-2021
Calibration Time: 15:55
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	158810	95286	222334	158810	0.00
108 1,4-Difluorobenze	597103	358262	835944	597103	0.00
153 Chlorobenzene-d5	587747	352648	822846	587747	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.78	5.45	6.11	5.78	0.00
108 1,4-Difluorobenze	6.66	6.33	6.99	6.66	0.00
153 Chlorobenzene-d5	9.46	9.13	9.79	9.46	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msdp.i/19MAY21.b/p051908.d

Date : 19-MAY-2021 15:55

Client ID:

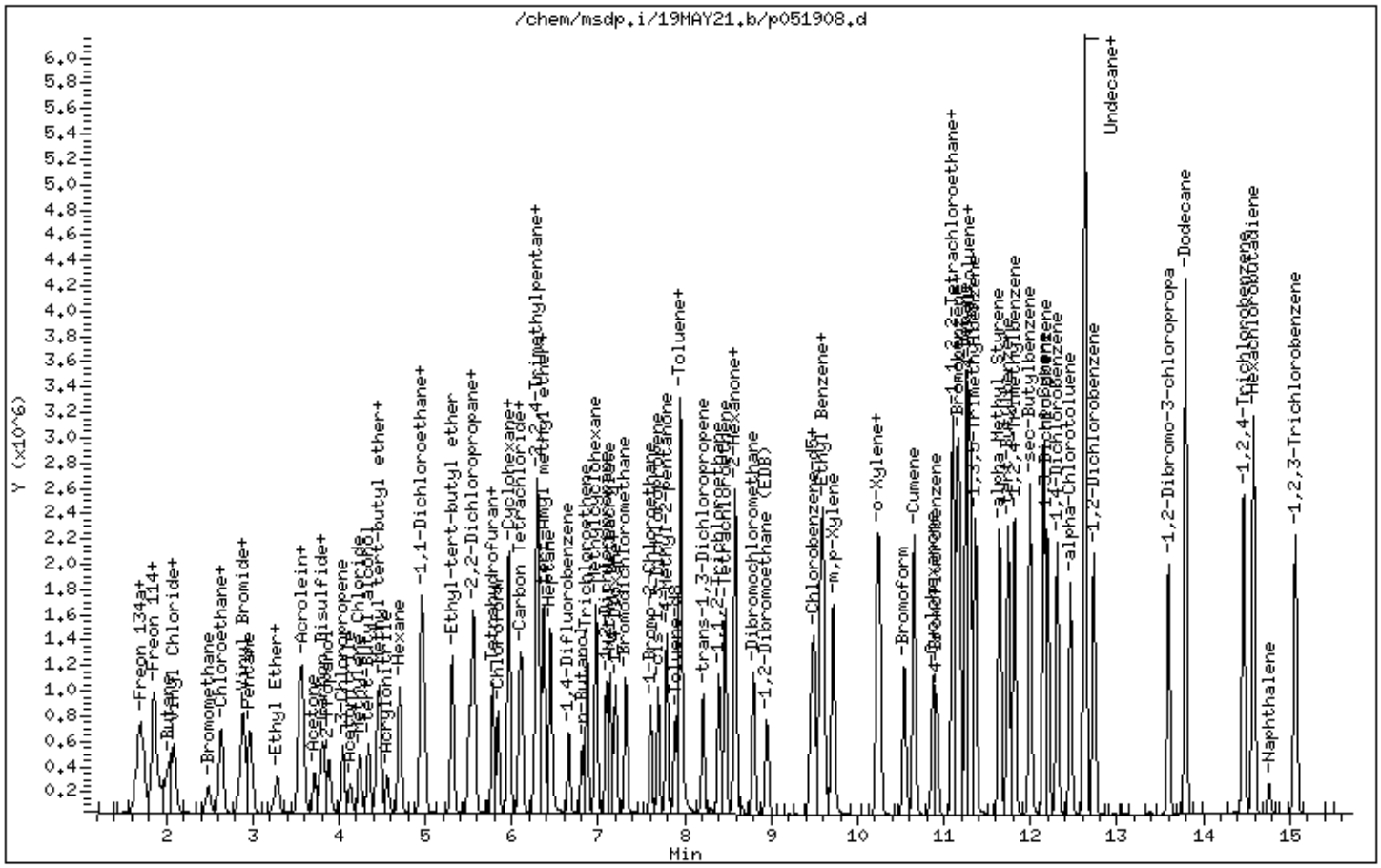
Instrument: msdp.i

Sample Info: 50mL 3018-2034

Operator: LD

Column phase: RTX-624

Column diameter: 0.25



US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/19MAY21.b/p051919.d
Lab Smp Id: ICAL Level 7
Inj Date : 19-MAY-2021 21:38
Operator : gh Inst ID: msdp.i
Smp Info : 50mL 3018-2013
Misc Info : 50ppbv (200ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/19MAY21.b/p21q0519a.m
Meth Date : 20-May-2021 09:48 lk8g Quant Type: ISTD
Cal Date : 19-MAY-2021 21:38 Cal File: p051919.d
Als bottle: 3 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT20spICAL.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 90 Bromochloromethane					CAS #: 74-97-5		
5.778	5.778 (1.000)	130	161689	25.0000		80.00- 120.00	100.00
5.778	5.778 (1.000)	128	124860			47.22- 107.22	77.22
5.778	5.778 (1.000)	49	289657			149.14- 209.14	179.14
* 108 1,4-Difluorobenzene					CAS #: 540-36-3		
6.659	6.659 (1.000)	114	604813	25.0000		80.00- 120.00	100.00
6.659	6.659 (1.000)	88	94059			0.00- 45.55	15.55
* 153 Chlorobenzene-d5					CAS #: 3114-55-4		
9.460	9.460 (1.000)	117	587682	25.0000		80.00- 120.00	100.00
9.460	9.460 (1.000)	82	320961			24.61- 84.61	54.61
3 Freon 143a					CAS #: 420-46-2		
1.590	1.590 (0.275)	65	175050	50.0000	50.000	80.00- 120.00	100.00
1.590	1.590 (0.275)	69	478765			243.50- 303.50	273.50
1.590	1.590 (0.275)	64	42119			0.00- 54.06	24.06
6 Propane					CAS #: 74-98-6		
1.674	1.674 (0.290)	43	126213	50.0000	50.000	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
6 Propane (continued)							
1.674	1.674 (0.290)	39	82019			34.98- 94.98	64.98
1.674	1.674 (0.290)	41	69691			25.22- 85.22	55.22
13 Freon 142b					CAS #: 75-68-3		
1.884	1.884 (0.326)	65	712387	50.0000	50.000	80.00- 120.00	100.00
1.884	1.884 (0.326)	45	212071			0.00- 59.77	29.77
36 1-Pentene					CAS #: 109-67-1		
2.906	2.906 (0.503)	55	479291	50.0000	50.000	80.00- 120.00	100.00
2.906	2.906 (0.503)	42	647860			105.17- 165.17	135.17
40 Freon 123a					CAS #: 354-23-4		
3.385	3.385 (0.586)	117	461487	50.0000	50.000	80.00- 120.00	100.00
3.378	3.378 (0.585)	67	621572			104.69- 164.69	134.69
41 Freon 123					CAS #: 306-83-2		
3.479	3.479 (0.602)	83	686787	50.0000	50.000	80.00- 120.00	100.00
3.479	3.479 (0.602)	133	143333			0.00- 50.87	20.87
3.479	3.479 (0.602)	85	453806			36.08- 96.08	66.08
55 Cyclopentene					CAS #: 142-29-0		
4.073	4.073 (0.705)	67	758990	50.0000	50.000	80.00- 120.00	100.00
4.073	4.073 (0.705)	68	279019			6.76- 66.76	36.76
4.073	4.073 (0.705)	53	209054			0.00- 57.54	27.54
56 Methyl Acetate					CAS #: 79-20-9		
4.073	4.073 (0.705)	43	885414	50.0000	50.000	80.00- 120.00	100.00
4.073	4.073 (0.705)	74	125122			0.00- 44.13	14.13
74 Chloroprene					CAS #: 126-99-8		
5.019	5.019 (0.869)	53	715451	50.0000	50.000	80.00- 120.00	100.00
5.019	5.019 (0.869)	88	280509			9.21- 69.21	39.21
5.019	5.019 (0.869)	50	173487			0.00- 54.25	24.25
75 1-Propanol					CAS #: 71-23-8		
5.083	5.083 (0.880)	59	98517	50.0000	50.000	80.00- 120.00	100.00
5.083	5.083 (0.880)	42	91848			63.23- 123.23	93.23
5.083	5.083 (0.880)	41	53925			24.74- 84.74	54.74
88 Methyl Acrylate					CAS #: 96-33-3		
5.620	5.620 (0.973)	55	911220	50.0000	50.000	80.00- 120.00	100.00
5.620	5.620 (0.973)	85	102793			0.00- 41.28	11.28
5.620	5.620 (0.973)	58	74910			0.00- 38.22	8.22
103 Isobutanol					CAS #: 78-83-1		
6.244	6.244 (1.081)	39	106882	50.0000	50.000	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
103 Isobutanol (continued)							
6.244	6.244 (1.081)	43	511089			448.18- 508.18	478.18
6.244	6.244 (1.081)	41	352703			299.99- 359.99	329.99
113 Ethyl acrylate					CAS #: 140-88-5		
6.938	6.938 (0.733)	99	67461	50.0000	50.000	80.00- 120.00	100.00
6.938	6.938 (0.733)	45	121394			149.95- 209.95	179.95
6.938	6.938 (0.733)	55	1267640			1849.07-1909.07	1879.07
115 2-Pentanone					CAS #: 107-87-9		
7.031	7.031 (0.743)	43	1498872	50.0000	50.000	80.00- 120.00	100.00
7.031	7.031 (0.743)	58	111516			0.00- 37.44	7.44
7.031	7.031 (0.743)	86	191499			0.00- 42.78	12.78
145 Butyl Acetate					CAS #: 123-86-4		
8.665	8.665 (1.301)	56	756724	50.0000	50.000	80.00- 120.00	100.00
8.665	8.665 (1.301)	73	220224			0.00- 59.10	29.10
8.657	8.657 (1.300)	43	1856227			215.30- 275.30	245.30
157 1,1,1,2-Tetrachloroethane					CAS #: 630-20-6		
9.596	9.596 (1.014)	131	672251	50.0000	50.000	80.00- 120.00	100.00
9.460	9.460 (1.000)	117	587682			57.42- 117.42	87.42
9.596	9.596 (1.014)	95	240014			5.70- 65.70	35.70
166 2-Heptanone					CAS #: 110-43-0		
10.362	10.362 (1.793)	58	1175492	50.0000	50.000	80.00- 120.00	100.00
10.362	10.362 (1.793)	43	1951662			136.03- 196.03	166.03
172 D-Limonene					CAS #: 5989-27-5		
12.089	12.089 (1.278)	68	923546	50.0000	50.000	80.00- 120.00	100.00
12.089	12.089 (1.278)	93	641066			39.41- 99.41	69.41
186 4-Chlorotoluene					CAS #: 106-43-4		
11.444	11.444 (1.210)	126	612826	50.0000	50.000	80.00- 120.00	100.00
11.444	11.444 (1.210)	91	1991813			295.02- 355.02	325.02
11.444	11.444 (1.210)	63	256306			11.82- 71.82	41.82
197 1,2,3-Trimethylbenzene					CAS #: 526-73-8		
12.318	12.318 (1.302)	120	901378	50.0000	50.000	80.00- 120.00	100.00
12.318	12.318 (1.302)	105	2004624			192.40- 252.40	222.40
12.318	12.318 (1.302)	77	222560			0.00- 54.69	24.69
205 Hexachloroethane					CAS #: 67-72-1		
12.970	12.970 (1.371)	201	436881	50.0000	50.000	80.00- 120.00	100.00
12.970	12.970 (1.371)	117	581027			102.99- 162.99	132.99

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
208 1,3,5-Trichlorobenzene					CAS #: 108-70-3		
13.758	13.758 (1.454)	180	1256168	50.0000	50.000	80.00- 120.00	100.00
13.758	13.758 (1.454)	182	1196432			65.24- 125.24	95.24
210 alpha-Pinene					CAS #: 80-56-8		
10.599	10.599 (1.120)	93	1358794	50.0000	50.000	80.00- 120.00	100.00
10.599	10.599 (1.120)	77	383320			0.00- 58.21	28.21
214 beta-Pinene					CAS #: 127-91-3		
11.422	11.422 (1.207)	93	1085058	50.0000	50.000	80.00- 120.00	100.00
11.444	11.444 (1.210)	91	1991813			153.57- 213.57	183.57

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p051919.d
Lab Smp Id: ICAL Level 7
Analysis Type: VOA
Quant Type: ISTD
Operator: gh
Method File: /chem/msdp.i/19MAY21.b/p21q0519a.m
Misc Info: 50ppbv (200ppbv)

Calibration Date: 19-MAY-2021
Calibration Time: 21:38
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	161689	97013	226365	161689	0.00
108 1,4-Difluorobenze	604813	362888	846738	604813	0.00
153 Chlorobenzene-d5	587682	352609	822755	587682	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.78	5.45	6.11	5.78	0.00
108 1,4-Difluorobenze	6.66	6.33	6.99	6.66	0.00
153 Chlorobenzene-d5	9.46	9.13	9.79	9.46	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msdp.i/19MAY21.b/p051919.d

Date : 19-MAY-2021 21:38

Client ID:

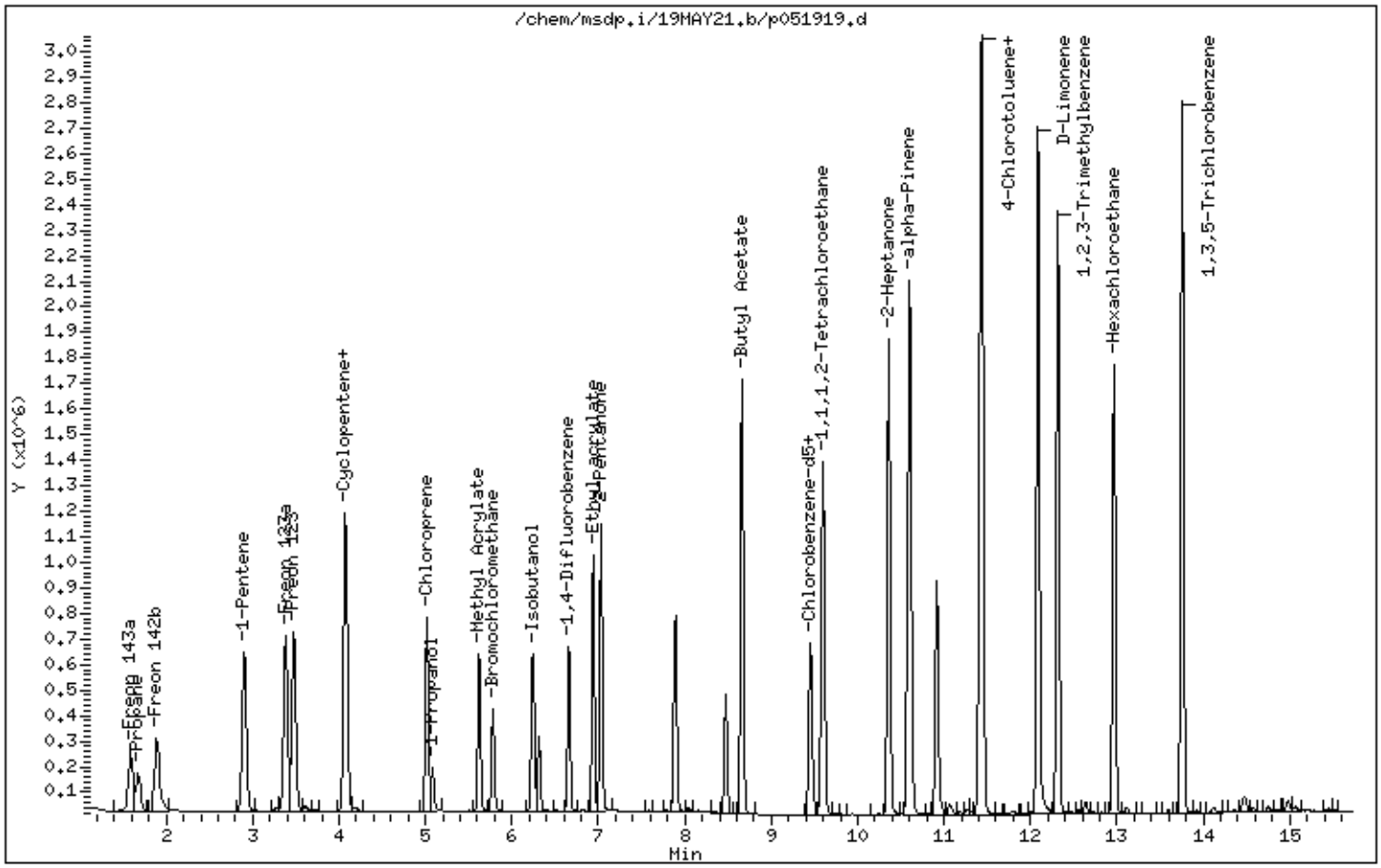
Instrument: msdp.i

Sample Info: 50mL 3018-2013

Operator: gh

Column phase: RTX-624

Column diameter: 0.25



US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/19MAY21.b/p051909.d
Lab Smp Id: ICAL Level 8
Inj Date : 19-MAY-2021 16:24
Operator : LD Inst ID: msdp.i
Smp Info : 100mL 3018-2034
Misc Info : 100ppbv (200ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/19MAY21.b/p21q0519a.m
Meth Date : 20-May-2021 09:50 lk8g Quant Type: ISTD
Cal Date : 19-MAY-2021 16:24 Cal File: p051909.d
Als bottle: 13 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT20ICAL.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
4 Freon 134a					CAS #: 811-97-2		
1.646	1.633 (0.285)	83	507565	100.000	105.61	80.00- 120.00	100.00
1.646	1.633 (0.285)	69	455041			59.44- 119.44	89.65
1.744	1.745 (0.302)	51	2268262			419.06- 479.06	446.89
5 Propylene					CAS #: 115-07-1		
1.674	1.675 (0.290)	41	698368	100.000	100.69	80.00- 120.00	100.00
1.674	1.675 (0.290)	42	460529			35.28- 95.28	65.94
1.674	1.675 (0.290)	39	475977			38.35- 98.35	68.16
7 1,1-Difluoroethane					CAS #: 75-37-6		
1.702	1.703 (0.295)	65	357088	100.000	101.44	80.00- 120.00	100.00
1.744	1.745 (0.302)	51	2268262			597.63- 657.63	635.21
1.702	1.703 (0.295)	47	231703			33.72- 93.72	64.89
8 Freon 12					CAS #: 75-71-8		
1.716	1.717 (0.297)	85	1452922	100.000	108.35	80.00- 120.00	100.00
1.716	1.717 (0.297)	87	469974			2.37- 62.37	32.35
9 Chlorodifluoromethane					CAS #: 75-45-6		
1.758	1.745 (0.304)	67	145754	100.000	109.07	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
	9 Chlorodifluoromethane (continued)						
1.744	1.745 (0.302)	51	2268262			1501.01-1561.01	1556.23
	10 Freon 114				CAS #: 76-14-2		
1.856	1.856 (0.321)	135	1419953	100.000	103.69	80.00- 120.00	100.00
1.856	1.856 (0.321)	137	456158			2.30- 62.30	32.12
	12 Isobutane				CAS #: 75-28-5		
1.870	1.870 (0.324)	43	1515676	100.000	98.575	80.00- 120.00	100.00
1.870	1.870 (0.324)	42	485596			2.44- 62.44	32.04
1.870	1.856 (0.324)	58	50044			0.00- 33.36	3.30
	15 Chloromethane				CAS #: 74-87-3		
1.940	1.940 (0.336)	50	796816	100.000	95.542	80.00- 120.00	100.00
1.954	1.940 (0.338)	52	204373			0.00- 56.26	25.65
	18 Butane				CAS #: 106-97-8		
2.039	2.025 (0.353)	58	180663	100.000	101.40	80.00- 120.00	100.00
2.039	2.025 (0.353)	43	1466054			823.29- 883.29	811.49
	19 Vinyl Chloride				CAS #: 75-01-4		
2.075	2.068 (0.359)	62	918346	100.000	96.270	80.00- 120.00	100.00
2.075	2.068 (0.359)	64	270816			0.00- 59.69	29.49
	20 1,3-Butadiene				CAS #: 106-99-0		
2.096	2.089 (0.363)	54	850684	100.000	112.06	80.00- 120.00	100.00
2.096	2.089 (0.363)	39	739010			52.37- 112.37	86.87
	24 Bromomethane				CAS #: 74-83-9		
2.483	2.483 (0.430)	94	572011	100.000	92.015	80.00- 120.00	100.00
2.483	2.483 (0.430)	96	535822			64.07- 124.07	93.67
	30 Chloroethane				CAS #: 75-00-3		
2.612	2.612 (0.452)	64	349804	100.000	102.90	80.00- 120.00	100.00
2.612	2.612 (0.452)	66	100650			0.04- 60.04	28.77
2.612	2.612 (0.452)	49	117019			4.54- 64.54	33.45
	31 Isopentane				CAS #: 78-78-4		
2.641	2.634 (0.457)	43	1040896	100.000	100.15	80.00- 120.00	100.00
2.641	2.634 (0.457)	57	666459			34.12- 94.12	64.03
	32 Vinyl Bromide				CAS #: 593-60-2		
2.848	2.841 (0.493)	106	582384	100.000	103.68	80.00- 120.00	100.00
2.848	2.841 (0.493)	108	563942			69.27- 129.27	96.83
	33 Freon 11				CAS #: 75-69-4		
2.891	2.884 (0.500)	101	1487386	100.000	103.14	80.00- 120.00	100.00

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
33 Freon 11 (continued)							
2.891	2.884 (0.500)	103	967038			34.72- 94.72	65.02
34 Dichlorofluoromethane					CAS #: 75-43-4		
2.898	2.899 (0.502)	67	1298135	100.000	105.01	80.00- 120.00	100.00
2.898	2.899 (0.502)	69	401988			0.84- 60.84	30.97
35 Pentane					CAS #: 109-66-0		
2.970	2.970 (0.514)	43	1683232	100.000	99.258	80.00- 120.00	100.00
2.970	2.970 (0.514)	57	245789			0.00- 44.98	14.60
2.970	2.970 (0.514)	72	121307			0.00- 37.39	7.21
38 Ethyl Ether					CAS #: 60-29-7		
3.285	3.285 (0.569)	74	298105	100.000	105.37	80.00- 120.00	100.00
3.285	3.285 (0.569)	59	576501			163.46- 223.46	193.39
3.285	3.285 (0.569)	45	836034			250.40- 310.40	280.45
39 Ethanol					CAS #: 64-17-5		
3.242	3.242 (0.561)	46	149584	100.000	99.460	80.00- 120.00	100.00
3.285	3.242 (0.569)	45	832557			511.19- 571.19	556.58
42 Acrolein					CAS #: 107-02-8		
3.536	3.529 (0.612)	55	266909	100.000	102.94	80.00- 120.00	100.00
3.536	3.529 (0.612)	56	376803			111.10- 171.10	141.17
43 Freon 113					CAS #: 76-13-1		
3.550	3.550 (0.614)	151	1092200	100.000	101.26	80.00- 120.00	100.00
3.557	3.550 (0.616)	153	689565			33.56- 93.56	63.14
3.550	3.550 (0.614)	101	1295372			89.21- 149.21	118.60
44 1,1-Dichloroethene					CAS #: 75-35-4		
3.586	3.579 (0.621)	96	638130	100.000	102.22	80.00- 120.00	100.00
3.586	3.579 (0.621)	98	399466			34.02- 94.02	62.60
3.586	3.579 (0.621)	61	1261088			168.77- 228.77	197.62
47 Acetone					CAS #: 67-64-1		
3.715	3.708 (0.643)	58	407743	100.000	103.12	80.00- 120.00	100.00
3.715	3.708 (0.643)	43	1336506			302.95- 362.95	327.78
48 Carbon Disulfide					CAS #: 75-15-0		
3.830	3.823 (0.663)	76	1723104	100.000	102.46	80.00- 120.00	100.00
49 Iodomethane					CAS #: 74-88-4		
3.794	3.794 (0.657)	142	1438092	100.000	135.14	80.00- 120.00	100.00
3.794	3.794 (0.657)	127	601035			12.22- 72.22	41.79

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
52 2-Propanol					CAS #: 67-63-0		
3.887	3.887 (0.673)	45	1661934	100.000	104.21	80.00- 120.00	100.00
3.887	3.887 (0.673)	43	292411			0.00- 47.19	17.59
54 3-Chloropropene					CAS #: 107-05-1		
4.052	4.052 (0.701)	76	292429	100.000	102.76	80.00- 120.00	100.00
4.052	4.052 (0.701)	41	1196303			396.19- 456.19	409.09
57 Acetonitrile					CAS #: 75-05-8		
4.123	4.123 (0.714)	41	798509	100.000	108.94	80.00- 120.00	100.00
4.123	4.123 (0.714)	40	401874			20.95- 80.95	50.33
4.123	4.123 (0.714)	38	88300			0.00- 41.17	11.06
59 Methylene Chloride					CAS #: 75-09-2		
4.238	4.238 (0.733)	49	1074098	100.000	105.04	80.00- 120.00	100.00
4.238	4.238 (0.733)	84	556924			22.03- 82.03	51.85
4.238	4.238 (0.733)	51	323217			0.18- 60.18	30.09
62 tert-Butyl alcohol					CAS #: 75-65-0		
4.338	4.338 (0.751)	59	1858636	100.000	99.052	80.00- 120.00	100.00
4.338	4.338 (0.751)	41	385487			0.00- 51.11	20.74
4.338	4.338 (0.751)	57	191013			0.00- 40.49	10.28
63 Methyl tert-butyl ether					CAS #: 1634-04-4		
4.446	4.446 (0.769)	73	1848968	100.000	98.795	80.00- 120.00	100.00
4.446	4.446 (0.769)	57	604553			3.10- 63.10	32.70
4.446	4.446 (0.769)	41	579143			1.28- 61.28	31.32
64 trans-1,2-Dichloroethene					CAS #: 156-60-5		
4.481	4.482 (0.776)	98	433306	100.000	102.86	80.00- 120.00	100.00
4.481	4.482 (0.776)	61	1236426			255.84- 315.84	285.35
4.481	4.482 (0.776)	96	693293			127.59- 187.59	160.00
66 Acrylonitrile					CAS #: 107-13-1		
4.560	4.560 (0.789)	52	596989	100.000	99.669	80.00- 120.00	100.00
4.560	4.560 (0.789)	53	715968			88.05- 148.05	119.93
67 Hexane					CAS #: 110-54-3		
4.696	4.697 (0.813)	57	1534457	100.000	103.86	80.00- 120.00	100.00
4.696	4.697 (0.813)	43	1029510			37.52- 97.52	67.09
4.696	4.697 (0.813)	86	176385			0.00- 41.48	11.49
71 1,1-Dichloroethane					CAS #: 75-34-3		
4.969	4.962 (0.860)	63	1364098	100.000	104.66	80.00- 120.00	100.00
4.969	4.962 (0.860)	65	405911			0.00- 59.70	29.76

					AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
RT	EXP RT (REL RT)	MASS	RESPONSE					
72 Isopropyl ether						CAS #: 108-20-3		
4.947	4.954 (0.856)	45	3520699	100.000		101.33	80.00- 120.00	100.00
4.947	4.954 (0.856)	87	644730				0.00- 48.18	18.31
4.947	4.954 (0.856)	59	358329				0.00- 40.15	10.18
73 Vinyl Acetate						CAS #: 108-05-4		
4.997	4.997 (0.865)	86	174113	100.000		107.01	80.00- 120.00	100.00
4.990	4.997 (0.864)	43	3073069				2432.48-2492.48	1764.99
79 Ethyl-tert-butyl ether						CAS #: 637-92-3		
5.305	5.305 (0.918)	59	3038101	100.000		100.85	80.00- 120.00	100.00
5.305	5.305 (0.918)	87	938894				1.00- 61.00	30.90
5.305	5.305 (0.918)	41	568486				0.00- 48.73	18.71
84 2,2-Dichloropropane						CAS #: 594-20-7		
5.506	5.506 (0.953)	77	1178409	100.000		103.59	80.00- 120.00	100.00
5.506	5.506 (0.953)	79	375834				2.28- 62.28	31.89
5.513	5.506 (0.954)	97	287766				0.00- 53.93	24.42
85 cis-1,2-Dichloroethene						CAS #: 156-59-2		
5.549	5.549 (0.960)	98	473987	100.000		109.86	80.00- 120.00	100.00
5.549	5.549 (0.960)	96	736483				125.75- 185.75	155.38
5.549	5.549 (0.960)	61	1694585				332.40- 392.40	357.52
86 2-Butanone						CAS #: 78-93-3		
5.556	5.556 (0.962)	72	357150	100.000		104.90	80.00- 120.00	100.00
5.563	5.556 (0.963)	43	4378918				1214.50-1274.50	1226.07
5.556	5.556 (0.962)	57	154664				14.68- 74.68	43.31
87 Ethyl Acetate						CAS #: 141-78-6		
5.570	5.570 (0.964)	45	353395	100.000		104.48	80.00- 120.00	100.00
5.549	5.549 (0.960)	61	1695217				452.04- 512.04	479.69
5.570	5.570 (0.964)	70	189420				22.77- 82.77	53.60
89 Tetrahydrofuran						CAS #: 109-99-9		
5.771	5.771 (0.999)	42	1189052	100.000		103.31	80.00- 120.00	100.00
5.771	5.771 (0.999)	71	309814				0.00- 55.82	26.06
5.771	5.771 (0.999)	72	335384				0.00- 57.59	28.21
* 90 Bromochloromethane						CAS #: 74-97-5		
5.778	5.778 (1.000)	130	152805	25.0000			80.00- 120.00	100.00
5.778	5.778 (1.000)	128	121664				48.23- 108.23	79.62
5.778	5.778 (1.000)	49	281698				150.57- 210.57	184.35
92 Chloroform						CAS #: 67-66-3		
5.835	5.835 (1.010)	83	1415975	100.000		107.68	80.00- 120.00	100.00

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
92 Chloroform (continued)							
5.835	5.835 (1.010)	85	915346			34.70- 94.70	64.64
94 Cyclohexane					CAS #: 110-82-7		
5.957	5.957 (1.031)	84	944762	100.000	101.07	80.00- 120.00	100.00
5.957	5.957 (1.031)	56	1666010			142.57- 202.57	176.34
5.957	5.957 (1.031)	41	886450			62.09- 122.09	93.83
96 1,1,1-Trichloroethane					CAS #: 71-55-6		
5.971	5.972 (1.033)	97	1485005	100.000	100.30	80.00- 120.00	100.00
5.971	5.972 (1.033)	99	948874			34.02- 94.02	63.90
97 Carbon Tetrachloride					CAS #: 56-23-5		
6.086	6.086 (1.053)	119	1499358	100.000	106.30	80.00- 120.00	100.00
6.086	6.086 (1.053)	117	1503563			70.64- 130.64	100.28
99 1,1-Dichloropropene					CAS #: 563-58-6		
6.115	6.115 (0.918)	110	416114	100.000	102.27	80.00- 120.00	100.00
6.115	6.115 (0.918)	75	1049030			226.85- 286.85	252.10
101 2,2,4-Trimethylpentane					CAS #: 540-84-1		
6.279	6.280 (1.087)	57	5314941	100.000	102.00	80.00- 120.00	100.00
6.279	6.280 (1.087)	56	1735895			2.24- 62.24	32.66
6.279	6.280 (1.087)	41	1349070			0.00- 54.39	25.38
102 Benzene					CAS #: 71-43-2		
6.301	6.301 (0.946)	78	2026776	100.000	103.01	80.00- 120.00	100.00
6.301	6.301 (0.946)	77	474028			0.00- 52.90	23.39
$ 104 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
6.308	6.308 (1.092)	65	220685	25.0000	26.504	80.00- 120.00	100.00
6.308	6.308 (1.092)	67	141968			27.21- 87.21	64.33
105 tert-Amyl methyl ether					CAS #: 994-05-8		
6.358	6.358 (0.955)	87	547673	100.000	97.366	80.00- 120.00	100.00
6.358	6.358 (0.955)	73	2227568			372.79- 432.79	406.73
6.358	6.358 (0.955)	55	768756			112.09- 172.09	140.37
106 1,2-Dichloroethane					CAS #: 107-06-2		
6.380	6.380 (0.958)	62	1080056	100.000	103.85	80.00- 120.00	100.00
6.380	6.380 (0.958)	64	332034			0.79- 60.79	30.74
107 Heptane					CAS #: 142-82-5		
6.444	6.444 (0.968)	71	786728	100.000	101.45	80.00- 120.00	100.00
6.444	6.444 (0.968)	43	2022288			226.53- 286.53	257.05
6.444	6.444 (0.968)	57	1020722			100.85- 160.85	129.74

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
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* 108 1,4-Difluorobenzene					CAS #: 540-36-3		
6.659	6.659 (1.000)	114	599259	25.0000		80.00- 120.00	100.00
6.659	6.659 (1.000)	88	96032			0.00- 45.71	16.03
110 n-Butanol					CAS #: 71-36-3		
6.809	6.810 (1.023)	56	750083	100.000	104.92	80.00- 120.00	100.00
6.809	6.810 (1.023)	41	530236			40.99- 100.99	70.69
6.809	6.810 (1.023)	43	429051			27.38- 87.38	57.20
111 Trichloroethene					CAS #: 79-01-6		
6.867	6.867 (1.031)	95	997780	100.000	104.77	80.00- 120.00	100.00
6.867	6.867 (1.031)	130	1060416			76.29- 136.29	106.28
6.867	6.867 (1.031)	97	630792			33.63- 93.63	63.22
114 1,2-Dichloropropane					CAS #: 78-87-5		
7.089	7.089 (1.065)	63	1008198	100.000	100.30	80.00- 120.00	100.00
7.089	7.089 (1.065)	62	717137			41.07- 101.07	71.13
7.096	7.089 (1.066)	41	522377			22.53- 82.53	51.81
116 Methyl Methacrylate					CAS #: 80-62-6		
7.139	7.132 (0.755)	69	824440	100.000	101.96	80.00- 120.00	100.00
7.132	7.132 (0.754)	41	1710649			179.84- 239.84	207.49
7.139	7.139 (0.755)	100	331918			9.59- 69.59	40.26
117 1,4-Dioxane					CAS #: 123-91-1		
7.175	7.175 (1.077)	88	528029	100.000	97.653	80.00- 120.00	100.00
7.175	7.175 (1.077)	58	524400			68.28- 128.28	99.31
7.175	7.175 (1.077)	57	177216			2.68- 62.68	33.56
118 Dibromomethane					CAS #: 74-95-3		
7.203	7.204 (0.761)	174	928250	100.000	104.93	80.00- 120.00	100.00
7.203	7.204 (0.761)	93	831541			60.09- 120.09	89.58
7.203	7.204 (0.761)	95	722804			48.38- 108.38	77.87
122 Bromodichloromethane					CAS #: 75-27-4		
7.318	7.318 (1.099)	83	1567843	100.000	105.12	80.00- 120.00	100.00
7.318	7.318 (1.099)	85	1011256			35.24- 95.24	64.50
126 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.690	7.691 (1.155)	75	1310676	100.000	104.92	80.00- 120.00	100.00
7.690	7.691 (1.155)	77	416599			2.42- 62.42	31.79
7.690	7.691 (1.155)	39	879596			37.16- 97.16	67.11
127 Methylcyclohexane					CAS #: 108-87-2		
6.974	6.974 (1.047)	83	1373843	100.000	98.785	80.00- 120.00	100.00
6.974	6.974 (1.047)	98	639936			15.78- 75.78	46.58

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
127 Methylcyclohexane (continued)							
6.974	6.974 (1.047)	55	1577222			84.64- 144.64	114.80
131 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.791	7.791 (1.170)	58	990523	100.000	97.755	80.00- 120.00	100.00
7.791	7.791 (1.170)	43	2685952			242.35- 302.35	271.17
7.798	7.791 (1.171)	85	326227			3.24- 63.24	32.93
$ 134 Toluene-d8					CAS #: 2037-26-5		
7.891	7.891 (1.185)	98	653351	25.0000	25.095	80.00- 120.00	100.00
7.891	7.891 (1.185)	70	69659			0.00- 40.44	10.66
7.891	7.891 (1.185)	100	427970			34.95- 94.95	65.50
137 Toluene					CAS #: 108-88-3		
7.948	7.949 (1.194)	91	2719947	100.000	99.602	80.00- 120.00	100.00
7.948	7.949 (1.194)	92	1593607			28.38- 88.38	58.59
136 Octane					CAS #: 111-65-9		
7.948	7.949 (1.194)	57	1143310	100.000	99.301	80.00- 120.00	100.00
7.948	7.949 (1.194)	85	970463			56.00- 116.00	84.88
7.948	7.949 (1.194)	43	2966309			228.66- 288.66	259.45
139 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
8.213	8.214 (0.868)	75	1224849	100.000	104.91	80.00- 120.00	100.00
8.213	8.214 (0.868)	77	387990			1.24- 61.24	31.68
8.213	8.214 (0.868)	39	804536			34.11- 94.11	65.68
141 1,1,2-Trichloroethane					CAS #: 79-00-5		
8.400	8.400 (0.888)	97	969495	100.000	103.06	80.00- 120.00	100.00
8.400	8.400 (0.888)	99	600278			31.96- 91.96	61.92
8.400	8.400 (0.888)	83	805643			52.93- 112.93	83.10
142 Tetrachloroethene					CAS #: 127-18-4		
8.464	8.464 (0.895)	166	1365527	100.000	99.832	80.00- 120.00	100.00
8.464	8.464 (0.895)	129	1069381			47.84- 107.84	78.31
8.464	8.464 (0.895)	131	1033508			45.29- 105.29	75.69
143 2-Hexanone					CAS #: 591-78-6		
8.586	8.586 (0.908)	58	1368856	100.000	99.686	80.00- 120.00	100.00
8.586	8.586 (0.908)	43	2631318			162.87- 222.87	192.23
8.586	8.586 (0.908)	100	212248			0.00- 45.94	15.51
144 1,3-Dichloropropane					CAS #: 142-28-9		
8.579	8.579 (1.288)	76	1348288	100.000	103.10	80.00- 120.00	100.00
8.579	8.579 (1.288)	41	1683093			94.99- 154.99	124.83
8.579	8.579 (1.288)	78	436936			2.05- 62.05	32.41

				AMOUNTS				
					CAL-AMT	ON-COL		
	RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
	==	====== ========	====	========	=======	=======	==========	=====
	146 Dibromochloromethane					CAS #: 124-48-1		
	8.801	8.801 (0.930)	129	1870111	100.000	103.77	80.00- 120.00	100.00
	8.801	8.801 (0.930)	127	1452482			47.45- 107.45	77.67
	148 1,2-Dibromoethane (EDB)					CAS #: 106-93-4		
	8.951	8.951 (0.946)	107	1591018	100.000	102.80	80.00- 120.00	100.00
	8.951	8.951 (0.946)	109	1499795			64.21- 124.21	94.27
	151 1-Bromo-2-Chloroethane					CAS #: 107-04-0		
	7.605	7.605 (1.142)	63	1915471	100.000	103.43	80.00- 120.00	100.00
	7.605	7.605 (1.142)	65	566303			0.00- 59.64	29.56
	7.605	7.605 (1.142)	144	182840			0.00- 39.63	9.55
*	153 Chlorobenzene-d5					CAS #: 3114-55-4		
	9.460	9.460 (1.000)	117	590210	25.0000		80.00- 120.00	100.00
	9.460	9.460 (1.000)	82	323727			23.78- 83.78	54.85
	154 Chlorobenzene					CAS #: 108-90-7		
	9.496	9.496 (1.004)	112	2370958	100.000	101.53	80.00- 120.00	100.00
	9.496	9.496 (1.004)	114	756993			1.74- 61.74	31.93
	9.496	9.496 (1.004)	77	1286889			25.04- 85.04	54.28
	155 Ethyl Benzene					CAS #: 100-41-4		
	9.567	9.567 (1.011)	106	1215808	100.000	99.229	80.00- 120.00	100.00
	9.567	9.567 (1.011)	91	3709578			273.74- 333.74	305.11
	156 Nonane					CAS #: 111-84-2		
	9.603	9.596 (1.015)	43	3087905	100.000	97.458	80.00- 120.00	100.00
	9.603	9.603 (1.015)	57	2613991			54.16- 114.16	84.65
	9.603	9.603 (1.015)	85	738081			0.00- 53.90	23.90
	158 m,p-Xylene					CAS #: 108-38-3		
	9.718	9.718 (1.027)	106	1495472	100.000	98.126	80.00- 120.00	100.00
	9.718	9.718 (1.027)	91	2934052			163.73- 223.73	196.20
	164 o-Xylene					CAS #: 95-47-6		
	10.226	10.226 (1.081)	106	1448581	100.000	98.124	80.00- 120.00	100.00
	10.226	10.226 (1.081)	91	2977601			177.45- 237.45	205.55
	165 Styrene					CAS #: 100-42-5		
	10.255	10.255 (1.084)	104	2465052	100.000	98.384	80.00- 120.00	100.00
	10.255	10.255 (1.084)	78	1179971			17.88- 77.88	47.87
	167 Bromoform					CAS #: 75-25-2		
	10.549	10.542 (1.115)	173	1837525	100.000	104.18	80.00- 120.00	100.00
	10.541	10.542 (1.114)	171	942585			21.25- 81.25	51.30

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
168 Cumene					CAS #: 98-82-8		
10.649	10.649 (1.126)	105	4567679	100.000	98.637	80.00- 120.00	100.00
10.649	10.649 (1.126)	120	1306308			0.00- 58.52	28.60
10.649	10.649 (1.126)	51	589542			0.00- 43.00	12.91
169 Cyclohexanone					CAS #: 108-94-1		
10.871	10.871 (1.149)	55	1596477	100.000	95.938	80.00- 120.00	100.00
10.871	10.871 (1.149)	98	513572			1.94- 61.94	32.17
10.871	10.871 (1.149)	42	1073939			37.89- 97.89	67.27
$ 170 4-Bromofluorobenzene					CAS #: 460-00-4		
10.921	10.921 (1.154)	174	381266	25.0000	25.244	80.00- 120.00	100.00
10.921	10.921 (1.154)	95	486727			95.92- 155.92	127.66
10.921	10.921 (1.154)	176	367158			66.89- 126.89	96.30
175 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
11.107	11.100 (1.174)	83	2228280	100.000	98.820	80.00- 120.00	100.00
11.107	11.100 (1.174)	85	1439832			35.20- 95.20	64.62
177 Bromobenzene					CAS #: 108-86-1		
11.107	11.107 (1.174)	156	1426381	100.000	101.78	80.00- 120.00	100.00
11.107	11.107 (1.174)	158	1394001			67.21- 127.21	97.73
11.179	11.179 (1.182)	77	841614			29.02- 89.02	59.00
178 Propylbenzene					CAS #: 103-65-1		
11.150	11.150 (1.179)	120	1347671	100.000	98.184	80.00- 120.00	100.00
11.150	11.150 (1.179)	91	5312611			366.49- 426.49	394.21
11.150	11.150 (1.179)	105	203289			0.00- 44.85	15.08
179 1,2,3-Trichloropropane					CAS #: 96-18-4		
11.179	11.179 (1.182)	110	686203	100.000	96.347	80.00- 120.00	100.00
11.179	11.179 (1.182)	75	2133287			280.55- 340.55	310.88
11.100	11.100 (1.173)	61	307567			15.49- 75.49	44.82
181 trans-1,4-Dichloro-2-butene					CAS #: 110-57-6		
11.179	11.179 (1.182)	53	476707	100.000	101.28	80.00- 120.00	100.00
11.179	11.179 (1.182)	89	367391			49.11- 109.11	77.07
11.179	11.179 (1.182)	75	2133287			426.44- 486.44	447.50
182 Decane					CAS #: 124-18-5		
11.251	11.251 (1.189)	57	3243150	100.000	88.689	80.00- 120.00	100.00
11.258	11.251 (1.190)	71	905505			0.00- 57.66	27.92
11.258	11.258 (1.190)	142	133433			0.00- 34.09	4.11
183 4-Ethyltoluene					CAS #: 622-96-8		
11.286	11.287 (1.193)	120	1428430	100.000	96.809	80.00- 120.00	100.00

				AMOUNTS				
					CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE		(PPBV)	(PPBV)	TARGET RANGE	RATIO
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183 4-Ethyltoluene (continued)								
11.286	11.287 (1.193)	105	4478546				284.55- 344.55	313.53
184 2-Chlorotoluene						CAS #: 95-49-8		
11.315	11.308 (1.196)	126	1126349	100.000		96.991	80.00- 120.00	100.00
11.308	11.308 (1.195)	91	3926471				315.17- 375.17	348.60
11.301	11.301 (1.195)	65	571555				21.55- 81.55	50.74
185 1,3,5-Trimethylbenzene						CAS #: 108-67-8		
11.365	11.365 (1.201)	120	2029709	100.000		99.067	80.00- 120.00	100.00
11.365	11.365 (1.201)	105	3958269				164.93- 224.93	195.02
188 alpha Methyl Styrene						CAS #: 98-83-9		
11.644	11.645 (1.231)	118	2053068	100.000		99.954	80.00- 120.00	100.00
11.644	11.645 (1.231)	103	1126967				25.30- 85.30	54.89
189 tert-Butylbenzene						CAS #: 98-06-6		
11.738	11.738 (1.241)	119	3869191	100.000		100.90	80.00- 120.00	100.00
11.745	11.738 (1.242)	134	937426				0.00- 54.25	24.23
11.738	11.738 (1.241)	91	2366627				31.27- 91.27	61.17
190 1,2,4-Trimethylbenzene						CAS #: 95-63-6		
11.816	11.817 (1.249)	105	3825889	100.000		98.524	80.00- 120.00	100.00
11.816	11.817 (1.249)	120	1877483				19.05- 79.05	49.07
192 sec-Butylbenzene						CAS #: 135-98-8		
11.995	11.996 (1.268)	134	1188712	100.000		99.702	80.00- 120.00	100.00
11.995	11.996 (1.268)	105	5589774				437.55- 497.55	470.24
11.995	11.996 (1.268)	91	846180				40.76- 100.76	71.18
194 p-Cymene						CAS #: 99-87-6		
12.160	12.160 (1.285)	119	5211679	100.000		99.223	80.00- 120.00	100.00
12.160	12.160 (1.285)	134	1335569				0.00- 55.54	25.63
12.160	12.153 (1.285)	91	1113414				0.00- 51.48	21.36
195 1,3-Dichlorobenzene						CAS #: 541-73-1		
12.203	12.196 (1.290)	146	2614617	100.000		98.021	80.00- 120.00	100.00
12.203	12.196 (1.290)	148	1681191				33.21- 93.21	64.30
12.196	12.196 (1.289)	111	1089961				11.31- 71.31	41.69
196 1,4-Dichlorobenzene						CAS #: 106-46-7		
12.311	12.311 (1.301)	146	2681111	100.000		99.901	80.00- 120.00	100.00
12.311	12.311 (1.301)	148	1693939				33.90- 93.90	63.18
12.311	12.311 (1.301)	111	1052991				9.45- 69.45	39.27
199 alpha-Chlorotoluene						CAS #: 100-44-7		
12.461	12.461 (1.317)	91	3733206	100.000		101.62	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
199 alpha-Chlorotoluene (continued)							
12.461	12.461 (1.317)	126	855205			0.00- 53.26	22.91
201 Undecane					CAS #: 1120-21-4		
12.640	12.640 (1.336)	57	3992563	100.000	94.355	80.00- 120.00	100.00
12.640	12.640 (1.336)	43	3525819			58.12- 118.12	88.31
202 Butylbenzene					CAS #: 104-51-8		
12.626	12.626 (1.335)	134	1274791	100.000	95.075	80.00- 120.00	100.00
12.626	12.626 (1.335)	91	4476615			314.79- 374.79	351.16
12.626	12.626 (1.335)	92	2399035			154.29- 214.29	188.19
204 1,2-Dichlorobenzene					CAS #: 95-50-1		
12.733	12.741 (1.346)	146	2533352	100.000	97.467	80.00- 120.00	100.00
12.733	12.741 (1.346)	148	1616747			33.84- 93.84	63.82
12.733	12.741 (1.346)	111	1075764			12.73- 72.73	42.46
206 1,2-Dibromo-3-chloropropane					CAS #: 96-12-8		
13.600	13.600 (1.438)	157	1585272	100.000	100.82	80.00- 120.00	100.00
13.600	13.600 (1.438)	75	1323143			52.48- 112.48	83.46
13.600	13.600 (1.438)	155	1237839			47.41- 107.41	78.08
207 Dodecane					CAS #: 112-40-3		
13.801	13.801 (1.459)	57	4416932	124.000	138.94	80.00- 120.00	100.00
13.801	13.801 (1.459)	43	3610956			52.87- 112.87	81.75
213 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
14.467	14.467 (1.529)	180	2488736	126.000	130.48	80.00- 120.00	100.00
14.467	14.467 (1.529)	182	2388833			65.33- 125.33	95.99
215 Hexachlorobutadiene					CAS #: 87-68-3		
14.581	14.582 (1.541)	225	1826473	129.000	136.64	80.00- 120.00	100.00
14.581	14.582 (1.541)	223	1154987			33.17- 93.17	63.24
216 Naphthalene					CAS #: 91-20-3		
14.768	14.768 (1.561)	128	617447	12.7000	12.602	80.00- 120.00	100.00
14.760	14.768 (1.560)	127	78355			0.00- 42.88	12.69
222 1,2,3-Trichlorobenzene					CAS #: 87-61-6		
15.068	15.069 (1.593)	180	2380079	133.000	141.78	80.00- 120.00	100.00
15.068	15.069 (1.593)	182	2269705			65.75- 125.75	95.36
15.061	15.069 (1.592)	145	846452			5.23- 65.23	35.56

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p051909.d
Lab Smp Id: ICAL Level 8
Analysis Type: VOA
Quant Type: ISTD
Operator: LD
Method File: /chem/msdp.i/19MAY21.b/p21q0519a.m
Misc Info: 100ppbv (200ppbv)

Calibration Date: 19-MAY-2021
Calibration Time: 15:55
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	158810	95286	222334	152805	-3.78
108 1,4-Difluorobenze	597103	358262	835944	599259	0.36
153 Chlorobenzene-d5	587747	352648	822846	590210	0.42

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.78	5.45	6.11	5.78	-0.00
108 1,4-Difluorobenze	6.66	6.33	6.99	6.66	-0.00
153 Chlorobenzene-d5	9.46	9.13	9.79	9.46	-0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msdp.i/19MAY21.b/p051909.d

Date : 19-MAY-2021 16:24

Client ID:

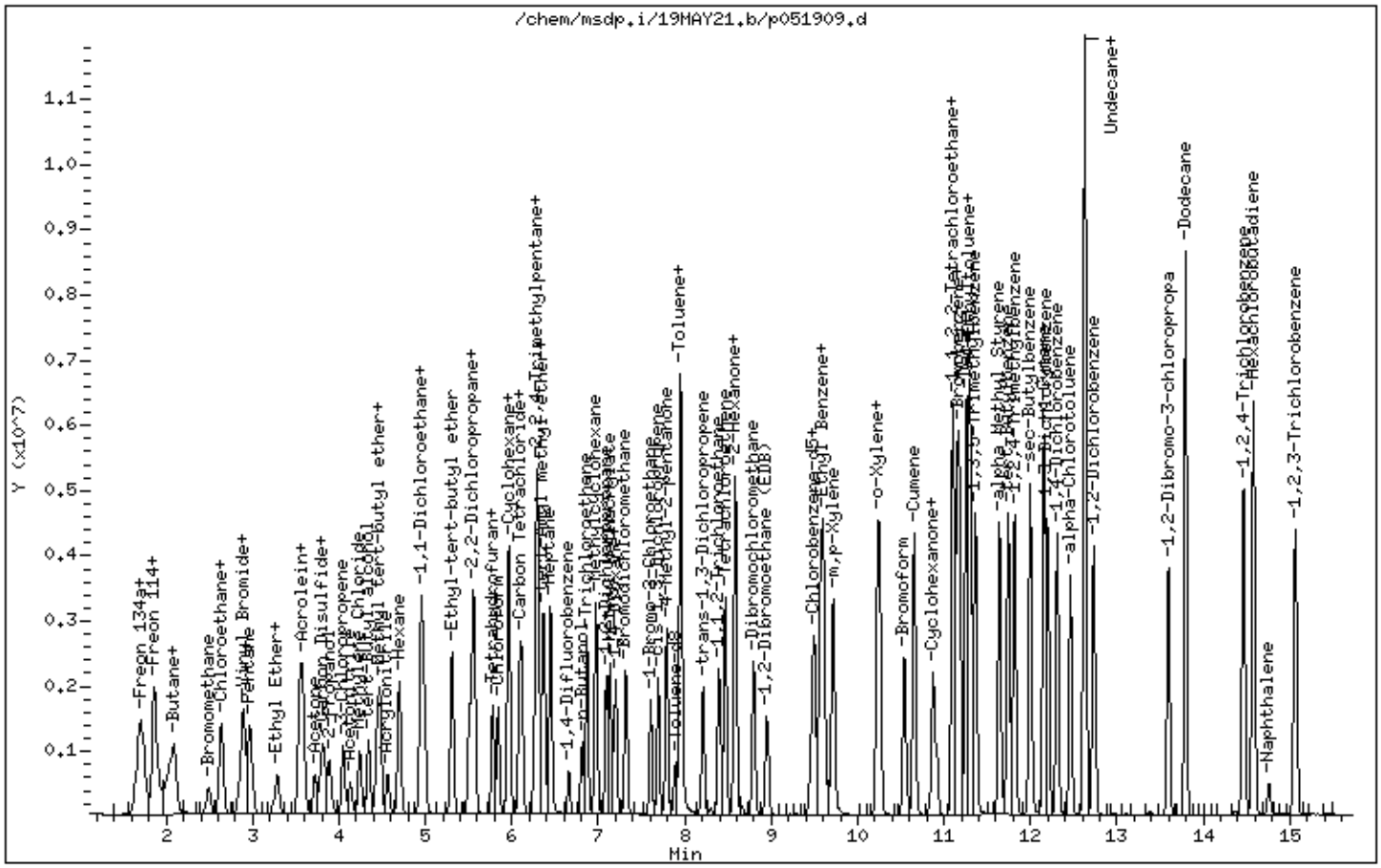
Instrument: msdp.i

Sample Info: 100mL 3018-2034

Operator: LD

Column phase: RTX-624

Column diameter: 0.25



US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/19MAY21.b/p051920.d
Lab Smp Id: ICAL Level 8
Inj Date : 19-MAY-2021 22:07
Operator : gh Inst ID: msdp.i
Smp Info : 100mL 3018-2013
Misc Info : 100ppbv (200ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/19MAY21.b/p21q0519a.m
Meth Date : 20-May-2021 09:50 lk8g Quant Type: ISTD
Cal Date : 19-MAY-2021 22:07 Cal File: p051920.d
Als bottle: 3 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT20spICAL.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 90 Bromochloromethane					CAS #: 74-97-5		
5.778	5.778 (1.000)	130	157260	25.0000		80.00- 120.00	100.00
5.778	5.778 (1.000)	128	127325			48.23- 108.23	80.96
5.778	5.778 (1.000)	49	290406			150.57- 210.57	184.67
* 108 1,4-Difluorobenzene					CAS #: 540-36-3		
6.659	6.659 (1.000)	114	611896	25.0000		80.00- 120.00	100.00
6.659	6.659 (1.000)	88	94534			0.00- 45.71	15.45
* 153 Chlorobenzene-d5					CAS #: 3114-55-4		
9.460	9.460 (1.000)	117	605655	25.0000		80.00- 120.00	100.00
9.460	9.460 (1.000)	82	331071			23.78- 83.78	54.66
3 Freon 143a					CAS #: 420-46-2		
1.590	1.590 (0.275)	65	338792	100.000	105.77	80.00- 120.00	100.00
1.590	1.590 (0.275)	69	923313			243.50- 303.50	272.53
1.590	1.590 (0.275)	64	80203			0.00- 54.06	23.67
6 Propane					CAS #: 74-98-6		
1.674	1.674 (0.290)	43	269102	100.000	96.261	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
6 Propane (continued)							
1.674	1.674 (0.290)	39	170552			34.98- 94.98	63.38
1.674	1.674 (0.290)	41	145053			25.22- 85.22	53.90
13 Freon 142b					CAS #: 75-68-3		
1.884	1.884 (0.326)	65	1499593	100.000	97.279	80.00- 120.00	100.00
1.884	1.884 (0.326)	45	444419			0.00- 59.77	29.64
36 1-Pentene					CAS #: 109-67-1		
2.906	2.906 (0.503)	55	966890	100.000	95.667	80.00- 120.00	100.00
2.906	2.906 (0.503)	42	1331259			105.17- 165.17	137.68
40 Freon 123a					CAS #: 354-23-4		
3.386	3.385 (0.586)	117	933222	100.000	95.080	80.00- 120.00	100.00
3.386	3.378 (0.586)	67	1253615			104.69- 164.69	134.33
41 Freon 123					CAS #: 306-83-2		
3.479	3.479 (0.602)	83	1402358	100.000	100.49	80.00- 120.00	100.00
3.479	3.479 (0.602)	133	293086			0.00- 50.87	20.90
3.479	3.479 (0.602)	85	954375			36.08- 96.08	68.06
55 Cyclopentene					CAS #: 142-29-0		
4.073	4.073 (0.705)	67	1549614	100.000	103.63	80.00- 120.00	100.00
4.073	4.073 (0.705)	68	574894			6.76- 66.76	37.10
4.073	4.073 (0.705)	53	430697			0.00- 57.54	27.79
56 Methyl Acetate					CAS #: 79-20-9		
4.073	4.073 (0.705)	43	1860322	100.000	106.56	80.00- 120.00	100.00
4.080	4.073 (0.706)	74	265330			0.00- 44.13	14.26
74 Chloroprene					CAS #: 126-99-8		
5.019	5.019 (0.869)	53	1510132	100.000	108.90	80.00- 120.00	100.00
5.019	5.019 (0.869)	88	592673			9.21- 69.21	39.25
5.019	5.019 (0.869)	50	359244			0.00- 54.25	23.79
75 1-Propanol					CAS #: 71-23-8		
5.083	5.083 (0.880)	59	205049	100.000	98.484	80.00- 120.00	100.00
5.083	5.083 (0.880)	42	189310			63.23- 123.23	92.32
5.083	5.083 (0.880)	41	113051			24.74- 84.74	55.13
88 Methyl Acrylate					CAS #: 96-33-3		
5.620	5.620 (0.973)	55	1943701	100.000	106.36	80.00- 120.00	100.00
5.620	5.620 (0.973)	85	217090			0.00- 41.28	11.17
5.620	5.620 (0.973)	58	162912			0.00- 38.22	8.38
103 Isobutanol					CAS #: 78-83-1		
6.236	6.244 (1.079)	39	226725	100.000	101.49	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
103 Isobutanol (continued)							
6.244	6.244 (1.081)	43	1059873			448.18- 508.18	467.47
6.244	6.244 (1.081)	41	745566			299.99- 359.99	328.84
113 Ethyl acrylate					CAS #: 140-88-5		
6.938	6.938 (0.733)	99	135799	100.000	96.936	80.00- 120.00	100.00
6.938	6.938 (0.733)	45	252316			149.95- 209.95	185.80
6.938	6.938 (0.733)	55	2635755			1849.07-1909.07	1940.92
115 2-Pentanone					CAS #: 107-87-9		
7.032	7.031 (0.743)	43	3106672	100.000	101.23	80.00- 120.00	100.00
7.032	7.031 (0.743)	58	227526			0.00- 37.44	7.32
7.032	7.031 (0.743)	86	400164			0.00- 42.78	12.88
145 Butyl Acetate					CAS #: 123-86-4		
8.665	8.665 (1.301)	56	1533686	100.000	99.232	80.00- 120.00	100.00
8.665	8.665 (1.301)	73	450207			0.00- 59.10	29.35
8.658	8.657 (1.300)	43	3763757			215.30- 275.30	245.41
157 1,1,1,2-Tetrachloroethane					CAS #: 630-20-6		
9.596	9.596 (1.014)	131	1347909	100.000	100.28	80.00- 120.00	100.00
9.460	9.460 (1.000)	117	605655			57.42- 117.42	44.93
9.596	9.596 (1.014)	95	485333			5.70- 65.70	36.01
166 2-Heptanone					CAS #: 110-43-0		
10.362	10.362 (1.793)	58	2357119	100.000	102.38	80.00- 120.00	100.00
10.362	10.362 (1.793)	43	3890207			136.03- 196.03	165.04
172 D-Limonene					CAS #: 5989-27-5		
12.089	12.089 (1.278)	68	1800213	100.000	137.28	80.00- 120.00	100.00
12.089	12.089 (1.278)	93	1238262			39.41- 99.41	68.78
186 4-Chlorotoluene					CAS #: 106-43-4		
11.444	11.444 (1.210)	126	1234609	100.000	99.338	80.00- 120.00	100.00
11.444	11.444 (1.210)	91	3962866			295.02- 355.02	320.98
11.444	11.444 (1.210)	63	506526			11.82- 71.82	41.03
197 1,2,3-Trimethylbenzene					CAS #: 526-73-8		
12.318	12.318 (1.302)	120	1781367	100.000	98.416	80.00- 120.00	100.00
12.318	12.318 (1.302)	105	3973322			192.40- 252.40	223.05
12.318	12.318 (1.302)	77	442101			0.00- 54.69	24.82
205 Hexachloroethane					CAS #: 67-72-1		
12.977	12.970 (1.372)	201	850803	100.000	123.71	80.00- 120.00	100.00
12.977	12.970 (1.372)	117	1124452			102.99- 162.99	132.16

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
208 1,3,5-Trichlorobenzene					CAS #: 108-70-3		
13.779	13.758 (1.457)	180	2557091	100.000	100.71	80.00- 120.00	100.00
13.779	13.758 (1.457)	182	2439083			65.24- 125.24	95.39
210 alpha-Pinene					CAS #: 80-56-8		
10.599	10.599 (1.120)	93	2760113	100.000	112.22	80.00- 120.00	100.00
10.599	10.599 (1.120)	77	796024			0.00- 58.21	28.84
214 beta-Pinene					CAS #: 127-91-3		
11.422	11.422 (1.207)	93	2112301	100.000	133.10	80.00- 120.00	100.00
11.444	11.444 (1.210)	91	3962866			153.57- 213.57	187.61

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p051920.d
Lab Smp Id: ICAL Level 8
Analysis Type: VOA
Quant Type: ISTD
Operator: gh
Method File: /chem/msdp.i/19MAY21.b/p21q0519a.m
Misc Info: 100ppbv (200ppbv)

Calibration Date: 19-MAY-2021
Calibration Time: 15:55
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	158810	95286	222334	157260	-0.98
108 1,4-Difluorobenze	597103	358262	835944	611896	2.48
153 Chlorobenzene-d5	587747	352648	822846	605655	3.05

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.78	5.45	6.11	5.78	-0.00
108 1,4-Difluorobenze	6.66	6.33	6.99	6.66	-0.00
153 Chlorobenzene-d5	9.46	9.13	9.79	9.46	-0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msdp.i/19MAY21.b/p051920.d

Date : 19-MAY-2021 22:07

Client ID:

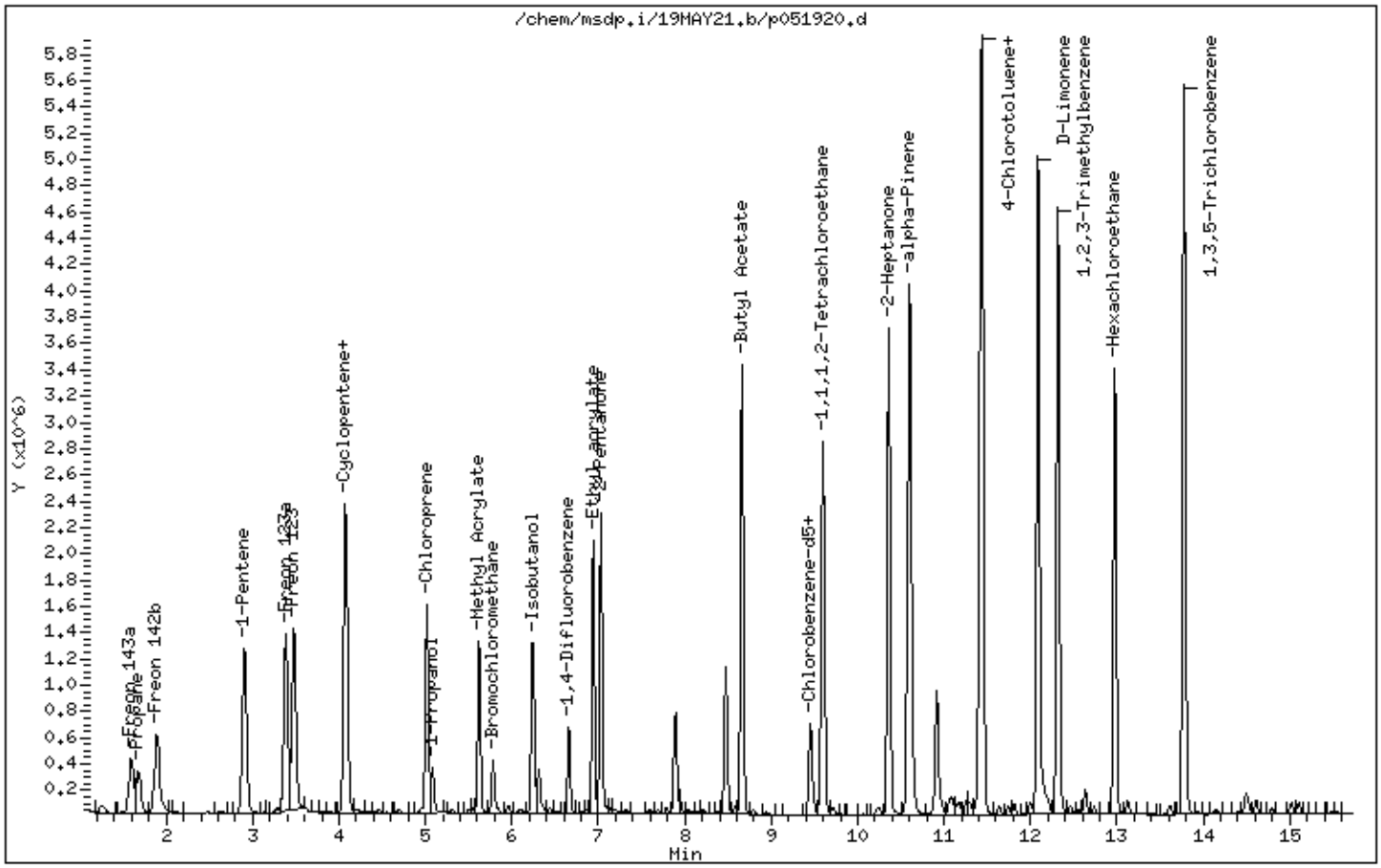
Instrument: msdp.i

Sample Info: 100mL 3018-2013

Operator: gh

Column phase: RTX-624

Column diameter: 0.25



US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/19MAY21.b/p051910.d
Lab Smp Id: ICAL Level 9
Inj Date : 19-MAY-2021 16:53
Operator : LD Inst ID: msdp.i
Smp Info : 200mL 3018-2034
Misc Info : 200ppbv (200ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/19MAY21.b/p21q0519a.m
Meth Date : 20-May-2021 09:50 lk8g Quant Type: ISTD
Cal Date : 19-MAY-2021 16:53 Cal File: p051910.d
Als bottle: 13 Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT20ICAL.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
4 Freon 134a					CAS #: 811-97-2		
1.660	1.633 (0.287)	83	963392	200.000	207.55	80.00- 120.00	100.00(A)
1.646	1.633 (0.285)	69	867624			59.44- 119.44	90.06
1.758	1.745 (0.304)	51	4138681			419.06- 479.06	429.59
5 Propylene					CAS #: 115-07-1		
1.688	1.675 (0.292)	41	1396714	200.000	208.12	80.00- 120.00	100.00(A)
1.688	1.675 (0.292)	42	925437			35.28- 95.28	66.26
1.688	1.675 (0.292)	39	960683			38.35- 98.35	68.78
7 1,1-Difluoroethane					CAS #: 75-37-6		
1.716	1.703 (0.297)	65	610604	200.000	183.68	80.00- 120.00	100.00
1.758	1.745 (0.304)	51	4138681			597.63- 657.63	677.80
1.716	1.703 (0.297)	47	402984			33.72- 93.72	66.00
8 Freon 12					CAS #: 75-71-8		
1.730	1.717 (0.299)	85	2956019	200.000	224.92	80.00- 120.00	100.00(A)
1.730	1.717 (0.299)	87	956315			2.37- 62.37	32.35
9 Chlorodifluoromethane					CAS #: 75-45-6		
1.758	1.745 (0.304)	67	279979	200.000	215.49	80.00- 120.00	100.00(A)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
9 Chlorodifluoromethane (continued)							
1.758	1.745 (0.304)	51	4138681			1501.01-1561.01	1478.21
10 Freon 114					CAS #: 76-14-2		
1.856	1.856 (0.321)	135	2798238	200.000	210.96	80.00- 120.00	100.00(A)
1.856	1.856 (0.321)	137	896202			2.30- 62.30	32.03
12 Isobutane					CAS #: 75-28-5		
1.870	1.870 (0.323)	43	3072142	200.000	206.77	80.00- 120.00	100.00(A)
1.870	1.870 (0.323)	42	980915			2.44- 62.44	31.93
1.870	1.856 (0.323)	58	99396			0.00- 33.36	3.24
15 Chloromethane					CAS #: 74-87-3		
1.954	1.940 (0.338)	50	1152746	200.000	151.06	80.00- 120.00	100.00
1.954	1.940 (0.338)	52	283410			0.00- 56.26	24.59
18 Butane					CAS #: 106-97-8		
2.053	2.025 (0.355)	58	411216	200.000	232.63	80.00- 120.00	100.00(A)
2.053	2.025 (0.355)	43	3342638			823.29- 883.29	812.87
19 Vinyl Chloride					CAS #: 75-01-4		
2.075	2.068 (0.359)	62	1863332	200.000	203.01	80.00- 120.00	100.00(A)
2.075	2.068 (0.359)	64	541008			0.00- 59.69	29.03
20 1,3-Butadiene					CAS #: 106-99-0		
2.111	2.089 (0.365)	54	1717595	200.000	229.88	80.00- 120.00	100.00(A)
2.111	2.089 (0.365)	39	2054933			52.37- 112.37	119.64
24 Bromomethane					CAS #: 74-83-9		
2.490	2.483 (0.430)	94	1117043	200.000	189.24	80.00- 120.00	100.00
2.490	2.483 (0.430)	96	1045104			64.07- 124.07	93.56
30 Chloroethane					CAS #: 75-00-3		
2.619	2.612 (0.453)	64	698592	200.000	211.62	80.00- 120.00	100.00(A)
2.619	2.612 (0.453)	66	205685			0.04- 60.04	29.44
2.619	2.612 (0.453)	49	231191			4.54- 64.54	33.09
31 Isopentane					CAS #: 78-78-4		
2.641	2.634 (0.456)	43	2078373	200.000	206.91	80.00- 120.00	100.00(A)
2.641	2.634 (0.456)	57	1341657			34.12- 94.12	64.55
32 Vinyl Bromide					CAS #: 593-60-2		
2.848	2.841 (0.492)	106	1169390	200.000	214.33	80.00- 120.00	100.00(A)
2.848	2.841 (0.492)	108	1149051			69.27- 129.27	98.26
33 Freon 11					CAS #: 75-69-4		
2.898	2.884 (0.501)	101	2990714	200.000	213.62	80.00- 120.00	100.00(A)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
33 Freon 11 (continued)							
2.898	2.884 (0.501)	103	1954067			34.72- 94.72	65.34
34 Dichlorofluoromethane					CAS #: 75-43-4		
2.906	2.899 (0.502)	67	2628562	200.000	218.19	80.00- 120.00	100.00(A)
2.906	2.899 (0.502)	69	808198			0.84- 60.84	30.75
35 Pentane					CAS #: 109-66-0		
2.977	2.970 (0.515)	43	3326896	200.000	203.77	80.00- 120.00	100.00(A)
2.977	2.970 (0.515)	57	497125			0.00- 44.98	14.94
2.977	2.970 (0.515)	72	250044			0.00- 37.39	7.52
38 Ethyl Ether					CAS #: 60-29-7		
3.292	3.285 (0.569)	74	597925	200.000	217.07	80.00- 120.00	100.00(A)
3.292	3.285 (0.569)	59	1144802			163.46- 223.46	191.46
3.285	3.285 (0.568)	45	1667751			250.40- 310.40	278.92
39 Ethanol					CAS #: 64-17-5		
3.249	3.242 (0.562)	46	301814	200.000	207.52	80.00- 120.00	100.00(A)
3.285	3.242 (0.568)	45	1657457			511.19- 571.19	549.17
42 Acrolein					CAS #: 107-02-8		
3.543	3.529 (0.612)	55	539808	200.000	213.90	80.00- 120.00	100.00(A)
3.543	3.529 (0.612)	56	750593			111.10- 171.10	139.05
43 Freon 113					CAS #: 76-13-1		
3.557	3.550 (0.615)	151	2174805	200.000	208.58	80.00- 120.00	100.00(A)
3.557	3.550 (0.615)	153	1392066			33.56- 93.56	64.01
3.557	3.550 (0.615)	101	2603153			89.21- 149.21	119.70
44 1,1-Dichloroethene					CAS #: 75-35-4		
3.593	3.579 (0.621)	96	1272304	200.000	210.50	80.00- 120.00	100.00(A)
3.593	3.579 (0.621)	98	804446			34.02- 94.02	63.23
3.593	3.579 (0.621)	61	2540756			168.77- 228.77	199.70
47 Acetone					CAS #: 67-64-1		
3.722	3.708 (0.643)	58	818913	200.000	213.00	80.00- 120.00	100.00(A)
3.722	3.708 (0.643)	43	2670673			302.95- 362.95	326.12
48 Carbon Disulfide					CAS #: 75-15-0		
3.837	3.823 (0.663)	76	3473690	200.000	212.53	80.00- 120.00	100.00(A)
49 Iodomethane					CAS #: 74-88-4		
3.794	3.794 (0.656)	142	2824784	200.000	259.99	80.00- 120.00	100.00(A)
3.794	3.794 (0.656)	127	1185970			12.22- 72.22	41.98

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
52 2-Propanol					CAS #: 67-63-0		
3.901	3.887 (0.674)	45	3287894	200.000	212.18	80.00- 120.00	100.00(A)
3.901	3.887 (0.674)	43	565170			0.00- 47.19	17.19
54 3-Chloropropene					CAS #: 107-05-1		
4.059	4.052 (0.702)	76	545365	200.000	199.73	80.00- 120.00	100.00
4.052	4.052 (0.700)	41	2224570			396.19- 456.19	407.90
57 Acetonitrile					CAS #: 75-05-8		
4.131	4.123 (0.714)	41	1631593	200.000	225.92	80.00- 120.00	100.00(A)
4.131	4.123 (0.714)	40	829052			20.95- 80.95	50.81
4.131	4.123 (0.714)	38	182363			0.00- 41.17	11.18
59 Methylene Chloride					CAS #: 75-09-2		
4.238	4.238 (0.733)	49	2169168	200.000	217.21	80.00- 120.00	100.00(A)
4.238	4.238 (0.733)	84	1125402			22.03- 82.03	51.88
4.238	4.238 (0.733)	51	657885			0.18- 60.18	30.33
62 tert-Butyl alcohol					CAS #: 75-65-0		
4.345	4.338 (0.751)	59	3675194	200.000	203.38	80.00- 120.00	100.00(A)
4.345	4.338 (0.751)	41	762931			0.00- 51.11	20.76
4.345	4.338 (0.751)	57	374274			0.00- 40.49	10.18
63 Methyl tert-butyl ether					CAS #: 1634-04-4		
4.446	4.446 (0.768)	73	3660106	200.000	203.22	80.00- 120.00	100.00(A)
4.446	4.446 (0.768)	57	1205080			3.10- 63.10	32.92
4.446	4.446 (0.768)	41	1137977			1.28- 61.28	31.09
64 trans-1,2-Dichloroethene					CAS #: 156-60-5		
4.482	4.482 (0.775)	98	872146	200.000	213.32	80.00- 120.00	100.00(A)
4.482	4.482 (0.775)	61	2471299			255.84- 315.84	283.36
4.482	4.482 (0.775)	96	1368568			127.59- 187.59	156.92
66 Acrylonitrile					CAS #: 107-13-1		
4.567	4.560 (0.789)	52	1209839	200.000	208.90	80.00- 120.00	100.00(A)
4.567	4.560 (0.789)	53	1441756			88.05- 148.05	119.17
67 Hexane					CAS #: 110-54-3		
4.696	4.697 (0.812)	57	3059384	200.000	213.36	80.00- 120.00	100.00(A)
4.696	4.697 (0.812)	43	2035499			37.52- 97.52	66.53
4.696	4.697 (0.812)	86	348023			0.00- 41.48	11.38
71 1,1-Dichloroethane					CAS #: 75-34-3		
4.969	4.962 (0.859)	63	2727099	200.000	215.24	80.00- 120.00	100.00(A)
4.969	4.962 (0.859)	65	807144			0.00- 59.70	29.60

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
72 Isopropyl ether						CAS #: 108-20-3	
4.947	4.954 (0.855)	45	6972756	200.000	207.52	80.00- 120.00	100.00(A)
4.947	4.954 (0.855)	87	1261426			0.00- 48.18	18.09
4.947	4.954 (0.855)	59	707319			0.00- 40.15	10.14
73 Vinyl Acetate						CAS #: 108-05-4	
4.997	4.997 (0.864)	86	353856	200.000	221.69	80.00- 120.00	100.00(A)
4.997	4.997 (0.864)	43	6152688			2432.48-2492.48	1738.75
79 Ethyl-tert-butyl ether						CAS #: 637-92-3	
5.305	5.305 (0.917)	59	5991015	200.000	205.98	80.00- 120.00	100.00(A)
5.305	5.305 (0.917)	87	1852036			1.00- 61.00	30.91
5.305	5.305 (0.917)	41	1108520			0.00- 48.73	18.50
84 2,2-Dichloropropane						CAS #: 594-20-7	
5.513	5.506 (0.953)	77	2339456	200.000	212.12	80.00- 120.00	100.00(A)
5.513	5.506 (0.953)	79	759579			2.28- 62.28	32.47
5.513	5.506 (0.953)	97	577290			0.00- 53.93	24.68
85 cis-1,2-Dichloroethene						CAS #: 156-59-2	
5.549	5.549 (0.959)	98	941351	200.000	222.97	80.00- 120.00	100.00(A)
5.549	5.549 (0.959)	96	1475590			125.75- 185.75	156.75
5.549	5.549 (0.959)	61	3406307			332.40- 392.40	361.85
86 2-Butanone						CAS #: 78-93-3	
5.556	5.556 (0.960)	72	710177	200.000	214.24	80.00- 120.00	100.00(A)
5.563	5.556 (0.962)	43	8748765			1214.50-1274.50	1231.91
5.556	5.556 (0.960)	57	313614			14.68- 74.68	44.16
87 Ethyl Acetate						CAS #: 141-78-6	
5.570	5.570 (0.963)	45	710278	200.000	215.42	80.00- 120.00	100.00(A)
5.549	5.549 (0.959)	61	3406439			452.04- 512.04	479.59
5.570	5.570 (0.963)	70	376648			22.77- 82.77	53.03
89 Tetrahydrofuran						CAS #: 109-99-9	
5.778	5.771 (0.999)	42	2389288	200.000	213.80	80.00- 120.00	100.00(A)
5.778	5.771 (0.999)	71	621062			0.00- 55.82	25.99
5.778	5.771 (0.999)	72	679138			0.00- 57.59	28.42
* 90 Bromochloromethane						CAS #: 74-97-5	
5.785	5.778 (1.000)	130	146655	25.0000		80.00- 120.00	100.00
5.785	5.778 (1.000)	128	114483			48.23- 108.23	78.06
5.785	5.778 (1.000)	49	264310			150.57- 210.57	180.23
92 Chloroform						CAS #: 67-66-3	
5.842	5.835 (1.010)	83	2849633	200.000	221.70	80.00- 120.00	100.00(A)

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
92 Chloroform (continued)							
5.842	5.835 (1.010)	85	1839274			34.70- 94.70	64.54
94 Cyclohexane					CAS #: 110-82-7		
5.957	5.957 (1.030)	84	1890120	200.000	209.08	80.00- 120.00	100.00(A)
5.957	5.957 (1.030)	56	3281786			142.57- 202.57	173.63
5.957	5.957 (1.030)	41	1740496			62.09- 122.09	92.08
96 1,1,1-Trichloroethane					CAS #: 71-55-6		
5.971	5.972 (1.032)	97	2948715	200.000	206.40	80.00- 120.00	100.00(A)
5.971	5.972 (1.032)	99	1896974			34.02- 94.02	64.33
97 Carbon Tetrachloride					CAS #: 56-23-5		
6.093	6.086 (1.053)	119	2981854	200.000	217.13	80.00- 120.00	100.00(A)
6.093	6.086 (1.053)	117	3007163			70.64- 130.64	100.85
99 1,1-Dichloropropene					CAS #: 563-58-6		
6.122	6.115 (0.919)	110	839217	200.000	203.04	80.00- 120.00	100.00(A)
6.115	6.115 (0.918)	75	2124877			226.85- 286.85	253.20
101 2,2,4-Trimethylpentane					CAS #: 540-84-1		
6.279	6.280 (1.085)	57	10464793	200.000	207.89	80.00- 120.00	100.00(A)
6.279	6.280 (1.085)	56	3399889			2.24- 62.24	32.49
6.279	6.280 (1.085)	41	2587604			0.00- 54.39	24.73
102 Benzene					CAS #: 71-43-2		
6.301	6.301 (0.946)	78	4111436	200.000	205.31	80.00- 120.00	100.00(A)
6.301	6.301 (0.946)	77	947596			0.00- 52.90	23.05
$ 104 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
6.315	6.308 (1.092)	65	228223	25.0000	27.989	80.00- 120.00	100.00
6.308	6.308 (1.090)	67	169168			27.21- 87.21	74.12
105 tert-Amyl methyl ether					CAS #: 994-05-8		
6.358	6.358 (0.955)	87	1080564	200.000	191.25	80.00- 120.00	100.00
6.358	6.358 (0.955)	73	4364452			372.79- 432.79	403.90
6.358	6.358 (0.955)	55	1482176			112.09- 172.09	137.17
106 1,2-Dichloroethane					CAS #: 107-06-2		
6.380	6.380 (0.958)	62	2173814	200.000	205.36	80.00- 120.00	100.00(A)
6.380	6.380 (0.958)	64	662081			0.79- 60.79	30.46
107 Heptane					CAS #: 142-82-5		
6.444	6.444 (0.968)	71	1572559	200.000	200.11	80.00- 120.00	100.00(A)
6.444	6.444 (0.968)	43	4039565			226.53- 286.53	256.88
6.444	6.444 (0.968)	57	2057612			100.85- 160.85	130.84

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
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* 108 1,4-Difluorobenzene					CAS #: 540-36-3		
6.659	6.659 (1.000)	114	607214	25.0000		80.00- 120.00	100.00
6.659	6.659 (1.000)	88	93970			0.00- 45.71	15.48
110 n-Butanol					CAS #: 71-36-3		
6.809	6.810 (1.023)	56	1498541	200.000	205.70	80.00- 120.00	100.00(A)
6.809	6.810 (1.023)	41	1046025			40.99- 100.99	69.80
6.809	6.810 (1.023)	43	852168			27.38- 87.38	56.87
111 Trichloroethene					CAS #: 79-01-6		
6.867	6.867 (1.031)	95	2004771	200.000	206.61	80.00- 120.00	100.00(A)
6.867	6.867 (1.031)	130	2152958			76.29- 136.29	107.39
6.867	6.867 (1.031)	97	1282796			33.63- 93.63	63.99
114 1,2-Dichloropropane					CAS #: 78-87-5		
7.096	7.089 (1.066)	63	2045978	200.000	200.76	80.00- 120.00	100.00(A)
7.096	7.089 (1.066)	62	1452463			41.07- 101.07	70.99
7.096	7.089 (1.066)	41	1025055			22.53- 82.53	50.10
116 Methyl Methacrylate					CAS #: 80-62-6		
7.139	7.132 (0.755)	69	1664410	200.000	203.56	80.00- 120.00	100.00(A)
7.139	7.132 (0.755)	41	3490137			179.84- 239.84	209.69
7.139	7.139 (0.755)	100	669735			9.59- 69.59	40.24
117 1,4-Dioxane					CAS #: 123-91-1		
7.175	7.175 (1.077)	88	1068493	200.000	195.71	80.00- 120.00	100.00
7.175	7.175 (1.077)	58	1054342			68.28- 128.28	98.68
7.175	7.175 (1.077)	57	357622			2.68- 62.68	33.47
118 Dibromomethane					CAS #: 74-95-3		
7.211	7.204 (0.762)	174	1851234	200.000	206.43	80.00- 120.00	100.00(A)
7.203	7.204 (0.761)	93	1651072			60.09- 120.09	89.19
7.203	7.204 (0.761)	95	1434152			48.38- 108.38	77.47
122 Bromodichloromethane					CAS #: 75-27-4		
7.318	7.318 (1.099)	83	3187397	200.000	209.29	80.00- 120.00	100.00(A)
7.318	7.318 (1.099)	85	2050718			35.24- 95.24	64.34
126 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.698	7.691 (1.156)	75	2666430	200.000	209.05	80.00- 120.00	100.00(A)
7.698	7.691 (1.156)	77	846283			2.42- 62.42	31.74
7.691	7.691 (1.155)	39	1760038			37.16- 97.16	66.01
127 Methylcyclohexane					CAS #: 108-87-2		
6.974	6.974 (1.047)	83	2728123	200.000	194.48	80.00- 120.00	100.00
6.974	6.974 (1.047)	98	1272958			15.78- 75.78	46.66

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
127 Methylcyclohexane (continued)							
6.974	6.974 (1.047)	55	3109761			84.64- 144.64	113.99
131 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.791	7.791 (1.170)	58	1984175	200.000	194.19	80.00- 120.00	100.00
7.791	7.791 (1.170)	43	5363252			242.35- 302.35	270.30
7.798	7.791 (1.171)	85	653050			3.24- 63.24	32.91
$ 134 Toluene-d8					CAS #: 2037-26-5		
7.891	7.891 (1.185)	98	661488	25.0000	25.064	80.00- 120.00	100.00
7.891	7.891 (1.185)	70	62867			0.00- 40.44	9.50
7.891	7.891 (1.185)	100	430214			34.95- 94.95	65.04
137 Toluene					CAS #: 108-88-3		
7.956	7.949 (1.195)	91	5496866	200.000	198.84	80.00- 120.00	100.00
7.956	7.949 (1.195)	92	3223093			28.38- 88.38	58.64
136 Octane					CAS #: 111-65-9		
7.948	7.949 (1.194)	57	2290202	200.000	196.83	80.00- 120.00	100.00
7.948	7.949 (1.194)	85	1946174			56.00- 116.00	84.98
7.948	7.949 (1.194)	43	5895371			228.66- 288.66	257.42
139 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
8.213	8.214 (0.868)	75	2472659	200.000	208.56	80.00- 120.00	100.00(A)
8.213	8.214 (0.868)	77	780505			1.24- 61.24	31.57
8.213	8.214 (0.868)	39	1616909			34.11- 94.11	65.39
141 1,1,2-Trichloroethane					CAS #: 79-00-5		
8.400	8.400 (0.888)	97	1973653	200.000	206.88	80.00- 120.00	100.00(A)
8.400	8.400 (0.888)	99	1227648			31.96- 91.96	62.20
8.400	8.400 (0.888)	83	1639096			52.93- 112.93	83.05
142 Tetrachloroethene					CAS #: 127-18-4		
8.464	8.464 (0.895)	166	2764412	200.000	200.38	80.00- 120.00	100.00(A)
8.464	8.464 (0.895)	129	2156828			47.84- 107.84	78.02
8.464	8.464 (0.895)	131	2092898			45.29- 105.29	75.71
143 2-Hexanone					CAS #: 591-78-6		
8.586	8.586 (0.908)	58	2749799	200.000	198.84	80.00- 120.00	100.00
8.586	8.586 (0.908)	43	5238084			162.87- 222.87	190.49
8.586	8.586 (0.908)	100	433880			0.00- 45.94	15.78
144 1,3-Dichloropropane					CAS #: 142-28-9		
8.579	8.579 (1.288)	76	2712190	200.000	204.00	80.00- 120.00	100.00(A)
8.579	8.579 (1.288)	41	3365614			94.99- 154.99	124.09
8.579	8.579 (1.288)	78	882760			2.05- 62.05	32.55

				AMOUNTS				
					CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE		(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========		=======	=======	==========	=====
146 Dibromochloromethane						CAS #: 124-48-1		
8.801	8.801 (0.930)	129	3803420	200.000		207.93	80.00- 120.00	100.00(A)
8.801	8.801 (0.930)	127	2948441				47.45- 107.45	77.52
148 1,2-Dibromoethane (EDB)						CAS #: 106-93-4		
8.951	8.951 (0.946)	107	3199545	200.000		204.31	80.00- 120.00	100.00(A)
8.951	8.951 (0.946)	109	3015665				64.21- 124.21	94.25
151 1-Bromo-2-Chloroethane						CAS #: 107-04-0		
7.605	7.605 (1.142)	63	3852793	200.000		204.41	80.00- 120.00	100.00(A)
7.605	7.605 (1.142)	65	1142924				0.00- 59.64	29.66
7.605	7.605 (1.142)	144	374076				0.00- 39.63	9.71
* 153 Chlorobenzene-d5						CAS #: 3114-55-4		
9.460	9.460 (1.000)	117	595090	25.0000			80.00- 120.00	100.00
9.460	9.460 (1.000)	82	322638				23.78- 83.78	54.22
154 Chlorobenzene						CAS #: 108-90-7		
9.496	9.496 (1.004)	112	4805022	200.000		203.48	80.00- 120.00	100.00(A)
9.496	9.496 (1.004)	114	1542900				1.74- 61.74	32.11
9.496	9.496 (1.004)	77	2584699				25.04- 85.04	53.79
155 Ethyl Benzene						CAS #: 100-41-4		
9.567	9.567 (1.011)	106	2443043	200.000		198.07	80.00- 120.00	100.00
9.567	9.567 (1.011)	91	7445132				273.74- 333.74	304.75
156 Nonane						CAS #: 111-84-2		
9.603	9.596 (1.015)	43	6171885	200.000		194.14	80.00- 120.00	100.00
9.603	9.603 (1.015)	57	5253139				54.16- 114.16	85.11
9.603	9.603 (1.015)	85	1482943				0.00- 53.90	24.03
158 m,p-Xylene						CAS #: 108-38-3		
9.718	9.718 (1.027)	106	3015614	200.000		196.78	80.00- 120.00	100.00
9.718	9.718 (1.027)	91	5869082				163.73- 223.73	194.62
164 o-Xylene						CAS #: 95-47-6		
10.226	10.226 (1.081)	106	2925715	200.000		197.04	80.00- 120.00	100.00
10.226	10.226 (1.081)	91	5968076				177.45- 237.45	203.99
165 Styrene						CAS #: 100-42-5		
10.255	10.255 (1.084)	104	4970586	200.000		197.21	80.00- 120.00	100.00
10.255	10.255 (1.084)	78	2372058				17.88- 77.88	47.72
167 Bromoform						CAS #: 75-25-2		
10.549	10.542 (1.115)	173	3738056	200.000		208.68	80.00- 120.00	100.00(A)
10.549	10.542 (1.115)	171	1919438				21.25- 81.25	51.35

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
168 Cumene					CAS #: 98-82-8		
10.656	10.649 (1.126)	105	9133490	200.000	196.23	80.00- 120.00	100.00
10.656	10.649 (1.126)	120	2612516			0.00- 58.52	28.60
10.649	10.649 (1.126)	51	1174655			0.00- 43.00	12.86
169 Cyclohexanone					CAS #: 108-94-1		
10.871	10.871 (1.149)	55	3186182	200.000	191.28	80.00- 120.00	100.00
10.871	10.871 (1.149)	98	1023262			1.94- 61.94	32.12
10.871	10.871 (1.149)	42	2155068			37.89- 97.89	67.64
$ 170 4-Bromofluorobenzene					CAS #: 460-00-4		
10.921	10.921 (1.154)	174	391305	25.0000	25.595	80.00- 120.00	100.00
10.921	10.921 (1.154)	95	492677			95.92- 155.92	125.91
10.921	10.921 (1.154)	176	379433			66.89- 126.89	96.97
175 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
11.107	11.100 (1.174)	83	4478778	200.000	197.42	80.00- 120.00	100.00
11.107	11.100 (1.174)	85	2889301			35.20- 95.20	64.51
177 Bromobenzene					CAS #: 108-86-1		
11.107	11.107 (1.174)	156	2876488	200.000	203.06	80.00- 120.00	100.00(A)
11.107	11.107 (1.174)	158	2796126			67.21- 127.21	97.21
11.179	11.179 (1.182)	77	1690886			29.02- 89.02	58.78
178 Propylbenzene					CAS #: 103-65-1		
11.150	11.150 (1.179)	120	2681478	200.000	194.62	80.00- 120.00	100.00
11.150	11.150 (1.179)	91	10576237			366.49- 426.49	394.42
11.150	11.150 (1.179)	105	403848			0.00- 44.85	15.06
179 1,2,3-Trichloropropane					CAS #: 96-18-4		
11.179	11.179 (1.182)	110	1359844	200.000	190.81	80.00- 120.00	100.00
11.179	11.179 (1.182)	75	4281561			280.55- 340.55	314.86
11.107	11.100 (1.174)	61	607928			15.49- 75.49	44.71
181 trans-1,4-Dichloro-2-butene					CAS #: 110-57-6		
11.179	11.179 (1.182)	53	954975	200.000	201.05	80.00- 120.00	100.00(A)
11.179	11.179 (1.182)	89	738088			49.11- 109.11	77.29
11.179	11.179 (1.182)	75	4281561			426.44- 486.44	448.34
182 Decane					CAS #: 124-18-5		
11.258	11.251 (1.190)	57	6477918	200.000	178.80	80.00- 120.00	100.00
11.258	11.251 (1.190)	71	1764517			0.00- 57.66	27.24
11.258	11.258 (1.190)	142	263248			0.00- 34.09	4.06
183 4-Ethyltoluene					CAS #: 622-96-8		
11.286	11.287 (1.193)	120	2800806	200.000	189.85	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
183 4-Ethyltoluene (continued)							
11.286	11.287 (1.193)	105	9001865			284.55- 344.55	321.40
184 2-Chlorotoluene					CAS #: 95-49-8		
11.315	11.308 (1.196)	126	2257842	200.000	193.82	80.00- 120.00	100.00
11.308	11.308 (1.195)	91	7834055			315.17- 375.17	346.97
11.301	11.301 (1.195)	65	1128270			21.55- 81.55	49.97
185 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
11.365	11.365 (1.201)	120	4109840	200.000	199.10	80.00- 120.00	100.00
11.365	11.365 (1.201)	105	7853670			164.93- 224.93	191.09
188 alpha Methyl Styrene					CAS #: 98-83-9		
11.645	11.645 (1.231)	118	4135477	200.000	199.73	80.00- 120.00	100.00
11.645	11.645 (1.231)	103	2280562			25.30- 85.30	55.15
189 tert-Butylbenzene					CAS #: 98-06-6		
11.745	11.738 (1.242)	119	7751216	200.000	200.41	80.00- 120.00	100.00(A)
11.745	11.738 (1.242)	134	1872880			0.00- 54.25	24.16
11.738	11.738 (1.241)	91	4741993			31.27- 91.27	61.18
190 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
11.816	11.817 (1.249)	105	7641602	200.000	195.85	80.00- 120.00	100.00
11.816	11.817 (1.249)	120	3760947			19.05- 79.05	49.22
192 sec-Butylbenzene					CAS #: 135-98-8		
12.003	11.996 (1.269)	134	2387678	200.000	198.82	80.00- 120.00	100.00
12.003	11.996 (1.269)	105	11138250			437.55- 497.55	466.49
11.996	11.996 (1.268)	91	1685037			40.76- 100.76	70.57
194 p-Cymene					CAS #: 99-87-6		
12.160	12.160 (1.285)	119	10410880	200.000	197.06	80.00- 120.00	100.00
12.160	12.160 (1.285)	134	2680251			0.00- 55.54	25.74
12.160	12.153 (1.285)	91	2223506			0.00- 51.48	21.36
195 1,3-Dichlorobenzene					CAS #: 541-73-1		
12.203	12.196 (1.290)	146	5269323	200.000	196.50	80.00- 120.00	100.00
12.203	12.196 (1.290)	148	3364893			33.21- 93.21	63.86
12.196	12.196 (1.289)	111	2179310			11.31- 71.31	41.36
196 1,4-Dichlorobenzene					CAS #: 106-46-7		
12.311	12.311 (1.301)	146	5379837	200.000	198.98	80.00- 120.00	100.00
12.311	12.311 (1.301)	148	3443156			33.90- 93.90	64.00
12.311	12.311 (1.301)	111	2132840			9.45- 69.45	39.65
199 alpha-Chlorotoluene					CAS #: 100-44-7		
12.461	12.461 (1.317)	91	7476818	200.000	201.60	80.00- 120.00	100.00(A)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
199 alpha-Chlorotoluene (continued)							
12.461	12.461 (1.317)	126	1723549			0.00- 53.26	23.05
201 Undecane					CAS #: 1120-21-4		
12.640	12.640 (1.336)	57	7391785	200.000	176.63	80.00- 120.00	100.00
12.640	12.640 (1.336)	43	6481442			58.12- 118.12	87.68
202 Butylbenzene					CAS #: 104-51-8		
12.626	12.626 (1.335)	134	2555712	200.000	190.54	80.00- 120.00	100.00
12.626	12.626 (1.335)	91	8833770			314.79- 374.79	345.65
12.626	12.626 (1.335)	92	4753356			154.29- 214.29	185.99
204 1,2-Dichlorobenzene					CAS #: 95-50-1		
12.733	12.741 (1.346)	146	5095250	200.000	195.20	80.00- 120.00	100.00
12.733	12.741 (1.346)	148	3245004			33.84- 93.84	63.69
12.733	12.741 (1.346)	111	2166463			12.73- 72.73	42.52
206 1,2-Dibromo-3-chloropropane					CAS #: 96-12-8		
13.600	13.600 (1.438)	157	3185412	200.000	200.77	80.00- 120.00	100.00(A)
13.600	13.600 (1.438)	75	2632735			52.48- 112.48	82.65
13.600	13.600 (1.438)	155	2459698			47.41- 107.41	77.22
207 Dodecane					CAS #: 112-40-3		
13.801	13.801 (1.459)	57	8872524	247.000	272.11	80.00- 120.00	100.00(A)
13.801	13.801 (1.459)	43	7239358			52.87- 112.87	81.59
213 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
14.467	14.467 (1.529)	180	5062178	252.000	261.56	80.00- 120.00	100.00(A)
14.467	14.467 (1.529)	182	4827276			65.33- 125.33	95.36
215 Hexachlorobutadiene					CAS #: 87-68-3		
14.581	14.582 (1.541)	225	3721949	257.000	273.25	80.00- 120.00	100.00(A)
14.581	14.582 (1.541)	223	2342743			33.17- 93.17	62.94
216 Naphthalene					CAS #: 91-20-3		
14.768	14.768 (1.561)	128	1265607	25.4000	25.587	80.00- 120.00	100.00
14.768	14.768 (1.561)	127	157387			0.00- 42.88	12.44
222 1,2,3-Trichlorobenzene					CAS #: 87-61-6		
15.068	15.069 (1.593)	180	4844896	266.000	283.17	80.00- 120.00	100.00(A)
15.068	15.069 (1.593)	182	4630533			65.75- 125.75	95.58
15.068	15.069 (1.593)	145	1724268			5.23- 65.23	35.59

QC Flag Legend

A - Target compound detected but, quantitated amount
exceeded maximum amount.

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p051910.d
Lab Smp Id: ICAL Level 9
Analysis Type: VOA
Quant Type: ISTD
Operator: LD
Method File: /chem/msdp.i/19MAY21.b/p21q0519a.m
Misc Info: 200ppbv (200ppbv)

Calibration Date: 19-MAY-2021
Calibration Time: 15:55
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	158810	95286	222334	146655	-7.65
108 1,4-Difluorobenze	597103	358262	835944	607214	1.69
153 Chlorobenzene-d5	587747	352648	822846	595090	1.25

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.78	5.45	6.11	5.79	0.12
108 1,4-Difluorobenze	6.66	6.33	6.99	6.66	-0.00
153 Chlorobenzene-d5	9.46	9.13	9.79	9.46	-0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msdp.i/19MAY21.b/p051910.d

Page 1

Date : 19-MAY-2021 16:53

Client ID:

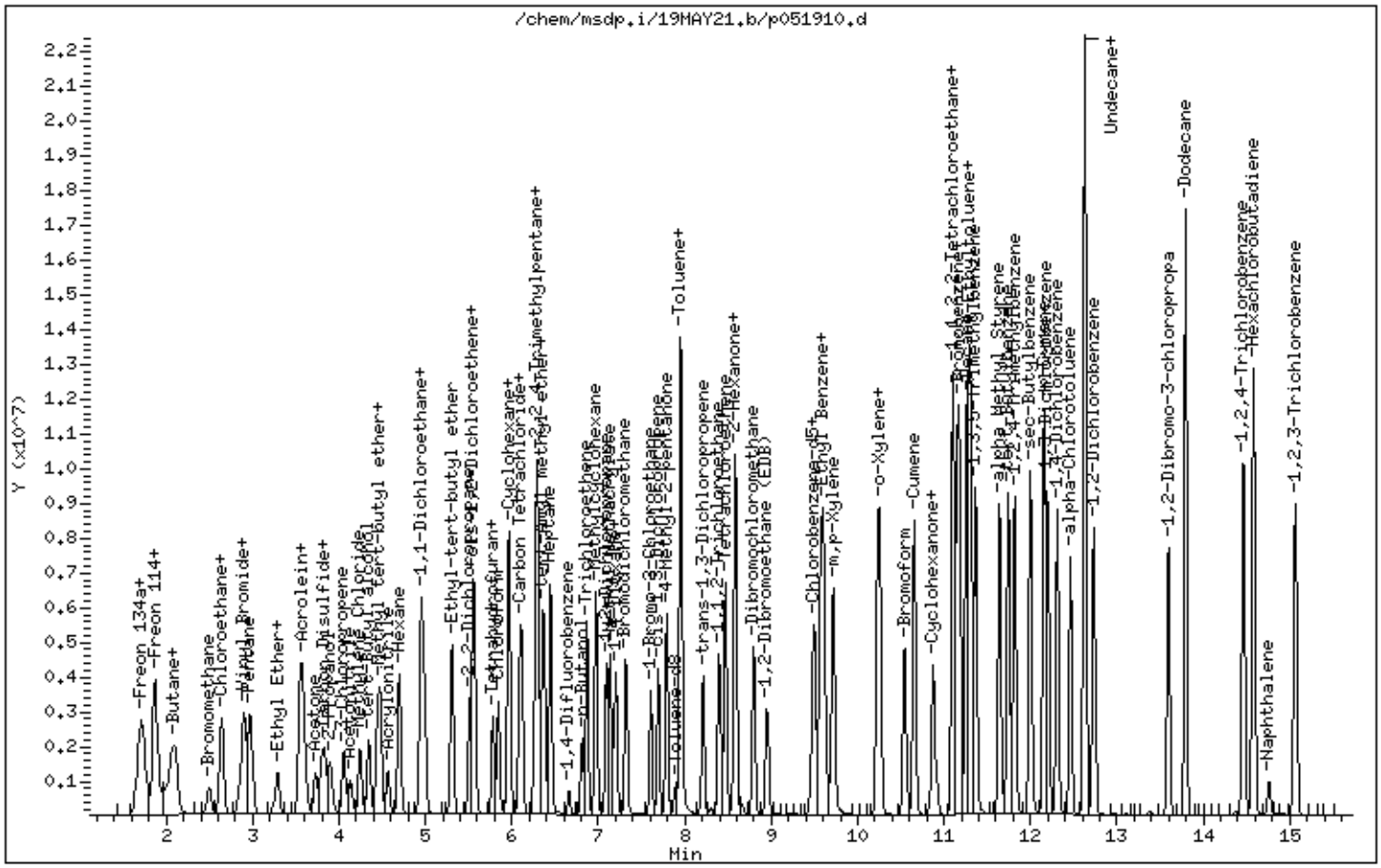
Instrument: msdp.i

Sample Info: 200mL 3018-2034

Operator: LD

Column phase: RTX-624

Column diameter: 0.25



US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/19MAY21.b/p051921.d
Lab Smp Id: ICAL Level 9
Inj Date : 19-MAY-2021 22:39
Operator : gh Inst ID: msdp.i
Smp Info : 200mL 3018-2013
Misc Info : 200ppbv (200ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/19MAY21.b/p21q0519a.m
Meth Date : 20-May-2021 09:50 lk8g Quant Type: ISTD
Cal Date : 19-MAY-2021 22:39 Cal File: p051921.d
Als bottle: 3 Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT20spICAL.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 90 Bromochloromethane					CAS #: 74-97-5		
5.778	5.778 (1.000)	130	153421	25.0000		80.00- 120.00	100.00
5.778	5.778 (1.000)	128	119993			48.23- 108.23	78.21
5.778	5.778 (1.000)	49	281111			150.57- 210.57	183.23
* 108 1,4-Difluorobenzene					CAS #: 540-36-3		
6.659	6.659 (1.000)	114	611809	25.0000		80.00- 120.00	100.00
6.659	6.659 (1.000)	88	95212			0.00- 45.71	15.56
* 153 Chlorobenzene-d5					CAS #: 3114-55-4		
9.460	9.460 (1.000)	117	591968	25.0000		80.00- 120.00	100.00
9.460	9.460 (1.000)	82	325404			23.78- 83.78	54.97
3 Freon 143a					CAS #: 420-46-2		
1.591	1.590 (0.275)	65	400344	200.000	135.04	80.00- 120.00	100.00
1.591	1.590 (0.275)	69	1105090			243.50- 303.50	276.04
1.591	1.590 (0.275)	64	95760			0.00- 54.06	23.92
6 Propane					CAS #: 74-98-6		
1.675	1.674 (0.290)	43	527234	200.000	194.13	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
6 Propane (continued)							
1.675	1.674 (0.290)	39	330737			34.98- 94.98	62.73
1.675	1.674 (0.290)	41	280905			25.22- 85.22	53.28
13 Freon 142b						CAS #: 75-68-3	
1.884	1.884 (0.326)	65	2932126	200.000	195.58	80.00- 120.00	100.00
1.884	1.884 (0.326)	45	866027			0.00- 59.77	29.54
36 1-Pentene						CAS #: 109-67-1	
2.906	2.906 (0.503)	55	1894226	200.000	193.06	80.00- 120.00	100.00
2.906	2.906 (0.503)	42	2580451			105.17- 165.17	136.23
40 Freon 123a						CAS #: 354-23-4	
3.386	3.385 (0.586)	117	1952332	200.000	203.39	80.00- 120.00	100.00(A)
3.378	3.378 (0.585)	67	2434248			104.69- 164.69	124.68
41 Freon 123						CAS #: 306-83-2	
3.479	3.479 (0.602)	83	2762089	200.000	202.52	80.00- 120.00	100.00(A)
3.479	3.479 (0.602)	133	571513			0.00- 50.87	20.69
3.479	3.479 (0.602)	85	1881243			36.08- 96.08	68.11
55 Cyclopentene						CAS #: 142-29-0	
4.073	4.073 (0.705)	67	3056516	200.000	208.28	80.00- 120.00	100.00(A)
4.073	4.073 (0.705)	68	1136453			6.76- 66.76	37.18
4.066	4.073 (0.704)	53	851928			0.00- 57.54	27.87
56 Methyl Acetate						CAS #: 79-20-9	
4.073	4.073 (0.705)	43	3612790	200.000	210.52	80.00- 120.00	100.00(A)
4.073	4.073 (0.705)	74	515897			0.00- 44.13	14.28
74 Chloroprene						CAS #: 126-99-8	
5.012	5.019 (0.867)	53	2991875	200.000	218.26	80.00- 120.00	100.00(A)
5.019	5.019 (0.869)	88	1176445			9.21- 69.21	39.32
5.012	5.019 (0.867)	50	709040			0.00- 54.25	23.70
75 1-Propanol						CAS #: 71-23-8	
5.083	5.083 (0.880)	59	399024	200.000	196.88	80.00- 120.00	100.00
5.083	5.083 (0.880)	42	379166			63.23- 123.23	95.02
5.083	5.083 (0.880)	41	223562			24.74- 84.74	56.03
88 Methyl Acrylate						CAS #: 96-33-3	
5.621	5.620 (0.973)	55	3851199	200.000	213.88	80.00- 120.00	100.00(A)
5.621	5.620 (0.973)	85	434023			0.00- 41.28	11.27
5.621	5.620 (0.973)	58	316363			0.00- 38.22	8.21
103 Isobutanol						CAS #: 78-83-1	
6.237	6.244 (1.079)	39	424672	200.000	195.48	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
103 Isobutanol (continued)							
6.237	6.244 (1.079)	43	2091776			448.18- 508.18	492.56
6.237	6.244 (1.079)	41	1430737			299.99- 359.99	336.90
113 Ethyl acrylate					CAS #: 140-88-5		
6.939	6.938 (0.733)	99	269080	200.000	196.94	80.00- 120.00	100.00
6.939	6.938 (0.733)	45	496156			149.95- 209.95	184.39
6.939	6.938 (0.733)	55	5189842			1849.07-1909.07	1928.74
115 2-Pentanone					CAS #: 107-87-9		
7.032	7.031 (0.743)	43	6094951	200.000	202.80	80.00- 120.00	100.00(A)
7.032	7.031 (0.743)	58	460764			0.00- 37.44	7.56
7.032	7.031 (0.743)	86	784528			0.00- 42.78	12.87
145 Butyl Acetate					CAS #: 123-86-4		
8.665	8.665 (1.301)	56	3022342	200.000	196.12	80.00- 120.00	100.00
8.665	8.665 (1.301)	73	883323			0.00- 59.10	29.23
8.665	8.657 (1.301)	43	7358553			215.30- 275.30	243.47
157 1,1,1,2-Tetrachloroethane					CAS #: 630-20-6		
9.596	9.596 (1.014)	131	2663540	200.000	202.39	80.00- 120.00	100.00(A)
9.460	9.460 (1.000)	117	591968			57.42- 117.42	22.22
9.596	9.596 (1.014)	95	938731			5.70- 65.70	35.24
166 2-Heptanone					CAS #: 110-43-0		
10.362	10.362 (1.793)	58	4597454	200.000	204.09	80.00- 120.00	100.00(A)
10.362	10.362 (1.793)	43	7586394			136.03- 196.03	165.01
172 D-Limonene					CAS #: 5989-27-5		
12.089	12.089 (1.278)	68	3445097	200.000	257.71	80.00- 120.00	100.00(A)
12.089	12.089 (1.278)	93	2389612			39.41- 99.41	69.36
186 4-Chlorotoluene					CAS #: 106-43-4		
11.444	11.444 (1.210)	126	2390402	200.000	197.18	80.00- 120.00	100.00
11.444	11.444 (1.210)	91	7653013			295.02- 355.02	320.16
11.444	11.444 (1.210)	63	988176			11.82- 71.82	41.34
197 1,2,3-Trimethylbenzene					CAS #: 526-73-8		
12.318	12.318 (1.302)	120	3473836	200.000	196.80	80.00- 120.00	100.00
12.318	12.318 (1.302)	105	7726951			192.40- 252.40	222.43
12.318	12.318 (1.302)	77	848060			0.00- 54.69	24.41
205 Hexachloroethane					CAS #: 67-72-1		
12.970	12.970 (1.371)	201	1692084	200.000	243.84	80.00- 120.00	100.00(A)
12.963	12.970 (1.370)	117	2255610			102.99- 162.99	133.30

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
208 1,3,5-Trichlorobenzene					CAS #: 108-70-3		
13.758	13.758 (1.454)	180	4961639	200.000	199.94	80.00- 120.00	100.00
13.758	13.758 (1.454)	182	4745365			65.24- 125.24	95.64
210 alpha-Pinene					CAS #: 80-56-8		
10.599	10.599 (1.120)	93	5524082	200.000	225.60	80.00- 120.00	100.00(A)
10.599	10.599 (1.120)	77	1558779			0.00- 58.21	28.22
214 beta-Pinene					CAS #: 127-91-3		
11.423	11.422 (1.207)	93	3935444	200.000	245.48	80.00- 120.00	100.00(A)
11.444	11.444 (1.210)	91	7653013			153.57- 213.57	194.46

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p051921.d
Lab Smp Id: ICAL Level 9
Analysis Type: VOA
Quant Type: ISTD
Operator: gh
Method File: /chem/msdp.i/19MAY21.b/p21q0519a.m
Misc Info: 200ppbv (200ppbv)

Calibration Date: 19-MAY-2021
Calibration Time: 15:55
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	158810	95286	222334	153421	-3.39
108 1,4-Difluorobenze	597103	358262	835944	611809	2.46
153 Chlorobenzene-d5	587747	352648	822846	591968	0.72

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.78	5.45	6.11	5.78	-0.00
108 1,4-Difluorobenze	6.66	6.33	6.99	6.66	-0.00
153 Chlorobenzene-d5	9.46	9.13	9.79	9.46	-0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msdp.i/19MAY21.b/p051921.d

Date : 19-MAY-2021 22:39

Client ID:

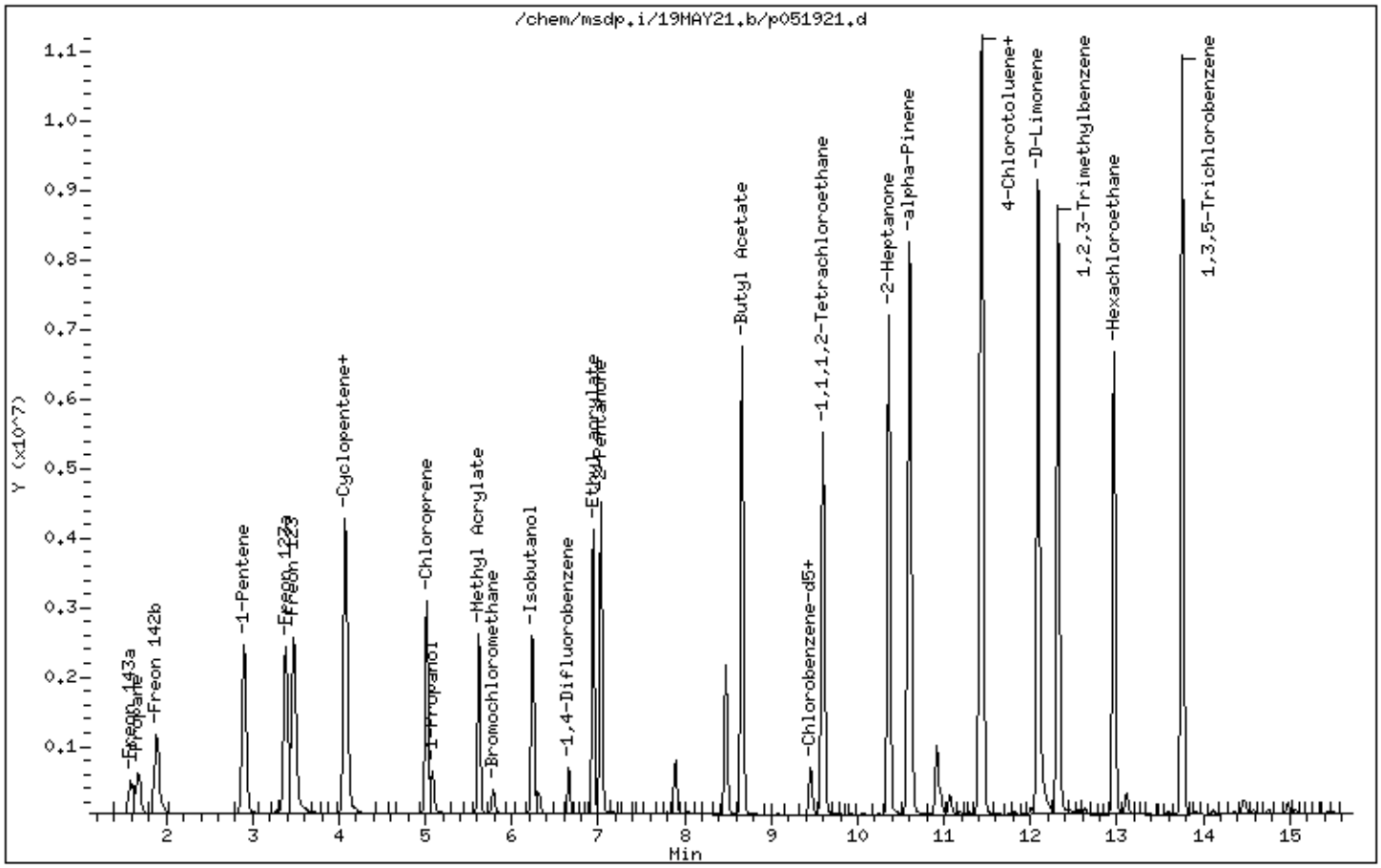
Instrument: msdp.i

Sample Info: 200mL 3018-2013

Operator: gh

Column phase: RTX-624

Column diameter: 0.25



US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/19MAY21.b/p051924.d
Lab Smp Id: ICAL Level 10
Inj Date : 20-MAY-2021 00:05
Operator : gh Inst ID: msdp.i
Smp Info : 20mL 3018-2045
Misc Info : 0.5ppbv (5.0ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/19MAY21.b/p21q0519a.m
Meth Date : 20-May-2021 09:50 lk8g Quant Type: ISTD
Cal Date : 20-MAY-2021 00:05 Cal File: p051924.d
Als bottle: 1 Calibration Sample, Level: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT20_Level2.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 90 Bromochloromethane					CAS #: 74-97-5		
5.778	5.778 (1.000)	130	163846	25.0000		80.00- 120.00	100.00
5.778	5.778 (1.000)	128	127369			48.23- 108.23	77.74
5.771	5.778 (1.000)	49	298690			150.57- 210.57	182.30
* 108 1,4-Difluorobenzene					CAS #: 540-36-3		
6.659	6.659 (1.000)	114	600718	25.0000		80.00- 120.00	100.00
6.659	6.659 (1.000)	88	95422			0.00- 45.71	15.88
* 153 Chlorobenzene-d5					CAS #: 3114-55-4		
9.460	9.460 (1.000)	117	590361	25.0000		80.00- 120.00	100.00
9.460	9.460 (1.000)	82	322116			23.78- 83.78	54.56
$ 104 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
6.308	6.308 (1.092)	65	214241	25.0000	23.693	80.00- 120.00	100.00
6.308	6.308 (1.092)	67	108928			27.21- 87.21	50.84
$ 134 Toluene-d8					CAS #: 2037-26-5		
7.891	7.891 (1.185)	98	647924	25.0000	24.838	80.00- 120.00	100.00
7.891	7.891 (1.185)	70	71814			0.00- 40.44	11.08

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 134 Toluene-d8 (continued)							
7.891	7.891 (1.185)	100	419509			34.95- 94.95	64.75
$ 170 4-Bromofluorobenzene					CAS #: 460-00-4		
10.921	10.921 (1.154)	174	377731	25.0000	24.917	80.00- 120.00	100.00
10.914	10.921 (1.154)	95	484972			95.92- 155.92	128.39
10.921	10.921 (1.154)	176	368139			66.89- 126.89	97.46
8 Freon 12					CAS #: 75-71-8		
1.716	1.717 (0.297)	85	7389	0.50000	0.5028	80.00- 120.00	100.00
1.716	1.717 (0.297)	87	2098			2.37- 62.37	28.39
10 Freon 114					CAS #: 76-14-2		
1.842	1.856 (0.319)	135	5833	0.50000	0.4044	80.00- 120.00	100.00(a)
1.842	1.856 (0.319)	137	1678			2.30- 62.30	28.77
19 Vinyl Chloride					CAS #: 75-01-4		
2.068	2.068 (0.358)	62	5135	0.50000	0.5007	80.00- 120.00	100.00
2.053	2.068 (0.355)	64	2485			0.00- 59.69	48.39
20 1,3-Butadiene					CAS #: 106-99-0		
2.089	2.089 (0.362)	54	3780	0.50000	0.4582	80.00- 120.00	100.00(a)
2.082	2.089 (0.360)	39	3849			52.37- 112.37	101.83
33 Freon 11					CAS #: 75-69-4		
2.884	2.884 (0.499)	101	7721	0.50000	0.4944	80.00- 120.00	100.00(a)
2.877	2.884 (0.498)	103	5435			34.72- 94.72	70.39
43 Freon 113					CAS #: 76-13-1		
3.550	3.550 (0.614)	151	5639	0.50000	0.4860	80.00- 120.00	100.00(a)
3.550	3.550 (0.614)	153	3997			33.56- 93.56	70.88
3.543	3.550 (0.613)	101	6873			89.21- 149.21	121.88
44 1,1-Dichloroethene					CAS #: 75-35-4		
3.579	3.579 (0.619)	96	4090	0.50000	0.5901	80.00- 120.00	100.00
3.572	3.579 (0.618)	98	2595			34.02- 94.02	63.45
3.579	3.579 (0.619)	61	6008			168.77- 228.77	146.89
64 trans-1,2-Dichloroethene					CAS #: 156-60-5		
4.474	4.482 (0.774)	98	2538	0.50000	0.5480	80.00- 120.00	100.00
4.474	4.482 (0.774)	61	5211			255.84- 315.84	205.32
4.474	4.482 (0.774)	96	4298			127.59- 187.59	169.35
66 Acrylonitrile					CAS #: 107-13-1		
4.560	4.560 (0.789)	52	3141	0.50000	0.4872	80.00- 120.00	100.00(a)
4.553	4.560 (0.788)	53	3388			88.05- 148.05	107.86

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
67 Hexane					CAS #: 110-54-3		
4.689	4.697 (0.812)	57	8492	0.50000	0.5261	80.00- 120.00	100.00
4.696	4.697 (0.813)	43	5530			37.52- 97.52	65.12
4.696	4.697 (0.813)	86	877			0.00- 41.48	10.33
71 1,1-Dichloroethane					CAS #: 75-34-3		
4.961	4.962 (0.859)	63	5960	0.50000	0.4295	80.00- 120.00	100.00(a)
4.961	4.962 (0.859)	65	2369			0.00- 59.70	39.75
85 cis-1,2-Dichloroethene					CAS #: 156-59-2		
5.542	5.549 (0.959)	98	2716	0.50000	0.5651	80.00- 120.00	100.00
5.549	5.549 (0.960)	96	3855			125.75- 185.75	141.94
5.542	5.549 (0.959)	61	7686			332.40- 392.40	282.99
89 Tetrahydrofuran					CAS #: 109-99-9		
5.778	5.771 (1.000)	42	5568	0.50000	0.4521	80.00- 120.00	100.00(a)
5.778	5.771 (1.000)	71	1335			0.00- 55.82	23.98
5.778	5.771 (1.000)	72	1481			0.00- 57.59	26.60
92 Chloroform					CAS #: 67-66-3		
5.835	5.835 (1.010)	83	6763	0.50000	0.4744	80.00- 120.00	100.00(a)
5.835	5.835 (1.010)	85	4617			34.70- 94.70	68.27
94 Cyclohexane					CAS #: 110-82-7		
5.957	5.957 (1.031)	84	5877	0.50000	0.5702	80.00- 120.00	100.00
5.957	5.957 (1.031)	56	9323			142.57- 202.57	158.64
5.957	5.957 (1.031)	41	5136			62.09- 122.09	87.39
96 1,1,1-Trichloroethane					CAS #: 71-55-6		
5.964	5.972 (1.032)	97	8556	0.50000	0.5313	80.00- 120.00	100.00
5.964	5.972 (1.032)	99	5329			34.02- 94.02	62.28
97 Carbon Tetrachloride					CAS #: 56-23-5		
6.086	6.086 (1.053)	119	6718	0.50000	0.4448	80.00- 120.00	100.00(a)
6.086	6.086 (1.053)	117	6855			70.64- 130.64	102.04
101 2,2,4-Trimethylpentane					CAS #: 540-84-1		
6.279	6.280 (1.087)	57	27567	0.50000	0.4914	80.00- 120.00	100.00(a)
6.279	6.280 (1.087)	56	8468			2.24- 62.24	30.72
6.279	6.280 (1.087)	41	9487			0.00- 54.39	34.41
102 Benzene					CAS #: 71-43-2		
6.294	6.301 (0.945)	78	9954	0.50000	0.5021	80.00- 120.00	100.00
6.301	6.301 (0.946)	77	2384			0.00- 52.90	23.95
106 1,2-Dichloroethane					CAS #: 107-06-2		
6.380	6.380 (0.958)	62	4608	0.50000	0.4467	80.00- 120.00	100.00(a)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
106 1,2-Dichloroethane (continued)							
6.380	6.380 (0.958)	64	1942			0.79- 60.79	42.14
107 Heptane					CAS #: 142-82-5		
6.444	6.444 (0.968)	71	4203	0.50000	0.5352	80.00- 120.00	100.00
6.444	6.444 (0.968)	43	9247			226.53- 286.53	220.01
6.444	6.444 (0.968)	57	5163			100.85- 160.85	122.84
111 Trichloroethene					CAS #: 79-01-6		
6.867	6.867 (1.031)	95	4879	0.50000	0.5072	80.00- 120.00	100.00
6.867	6.867 (1.031)	130	4525			76.29- 136.29	92.74
6.867	6.867 (1.031)	97	2893			33.63- 93.63	59.29
114 1,2-Dichloropropane					CAS #: 78-87-5		
7.089	7.089 (1.065)	63	5364	0.50000	0.5278	80.00- 120.00	100.00
7.096	7.089 (1.066)	62	3356			41.07- 101.07	62.57
7.096	7.089 (1.066)	41	2982			22.53- 82.53	55.59
118 Dibromomethane					CAS #: 74-95-3		
7.211	7.204 (0.762)	174	3904	0.50000	0.4456	80.00- 120.00	100.00(a)
7.204	7.204 (0.761)	93	4176			60.09- 120.09	106.97
7.204	7.204 (0.761)	95	4289			48.38- 108.38	109.86
122 Bromodichloromethane					CAS #: 75-27-4		
7.318	7.318 (1.099)	83	6924	0.50000	0.4642	80.00- 120.00	100.00(a)
7.318	7.318 (1.099)	85	4799			35.24- 95.24	69.31
126 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.691	7.691 (1.155)	75	6237	0.50000	0.4950	80.00- 120.00	100.00(a)
7.691	7.691 (1.155)	77	2224			2.42- 62.42	35.66
7.698	7.691 (1.156)	39	4083			37.16- 97.16	65.46
127 Methylcyclohexane					CAS #: 108-87-2		
6.974	6.974 (1.047)	83	7108	0.50000	0.5106	80.00- 120.00	100.00(a)
6.974	6.974 (1.047)	98	3734			15.78- 75.78	52.53
6.967	6.974 (1.046)	55	8514			84.64- 144.64	119.78
131 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.791	7.791 (1.170)	58	5902	0.50000	0.5719	80.00- 120.00	100.00
7.791	7.791 (1.170)	43	15074			242.35- 302.35	255.40
7.798	7.791 (1.171)	85	2388			3.24- 63.24	40.46
137 Toluene					CAS #: 108-88-3		
7.948	7.949 (1.194)	91	13680	0.50000	0.5002	80.00- 120.00	100.00
7.948	7.949 (1.194)	92	7825			28.38- 88.38	57.20

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
136 Octane					CAS #: 111-65-9		
7.941	7.949 (1.193)	57	6357	0.50000	0.5451	80.00- 120.00	100.00
7.941	7.949 (1.193)	85	5775			56.00- 116.00	90.84
7.941	7.949 (1.193)	43	15538			228.66- 288.66	244.42
139 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
8.213	8.214 (0.868)	75	5304	0.50000	0.4565	80.00- 120.00	100.00(a)
8.213	8.214 (0.868)	77	3481			1.24- 61.24	65.63
8.213	8.214 (0.868)	39	3904			34.11- 94.11	73.60
141 1,1,2-Trichloroethane					CAS #: 79-00-5		
8.393	8.400 (0.887)	97	5286	0.50000	0.5505	80.00- 120.00	100.00
8.400	8.400 (0.888)	99	2785			31.96- 91.96	52.69
8.400	8.400 (0.888)	83	4153			52.93- 112.93	78.57
142 Tetrachloroethene					CAS #: 127-18-4		
8.464	8.464 (0.895)	166	5918	0.50000	0.4398	80.00- 120.00	100.00(a)
8.464	8.464 (0.895)	129	5123			47.84- 107.84	86.57
8.464	8.464 (0.895)	131	4693			45.29- 105.29	79.30
144 1,3-Dichloropropane					CAS #: 142-28-9		
8.579	8.579 (1.288)	76	5918	0.50000	0.4556	80.00- 120.00	100.00(a)
8.579	8.579 (1.288)	41	8417			94.99- 154.99	142.23
8.579	8.579 (1.288)	78	2554			2.05- 62.05	43.16
146 Dibromochloromethane					CAS #: 124-48-1		
8.801	8.801 (0.930)	129	8255	0.50000	0.4601	80.00- 120.00	100.00(a)
8.794	8.801 (0.930)	127	6763			47.45- 107.45	81.93
148 1,2-Dibromoethane (EDB)					CAS #: 106-93-4		
8.951	8.951 (0.946)	107	7230	0.50000	0.4694	80.00- 120.00	100.00(a)
8.951	8.951 (0.946)	109	7175			64.21- 124.21	99.24
154 Chlorobenzene					CAS #: 108-90-7		
9.496	9.496 (1.004)	112	11778	0.50000	0.5024	80.00- 120.00	100.00
9.489	9.496 (1.003)	114	3810			1.74- 61.74	32.35
9.489	9.496 (1.003)	77	11483			25.04- 85.04	97.50
155 Ethyl Benzene					CAS #: 100-41-4		
9.567	9.567 (1.011)	106	6206	0.50000	0.5063	80.00- 120.00	100.00
9.567	9.567 (1.011)	91	18714			273.74- 333.74	301.55
158 m,p-Xylene					CAS #: 108-38-3		
9.718	9.718 (1.027)	106	8198	0.50000	0.5340	80.00- 120.00	100.00
9.711	9.718 (1.026)	91	15993			163.73- 223.73	195.08

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
164 o-Xylene					CAS #: 95-47-6		
10.226	10.226 (1.081)	106	7282	0.50000	0.4950	80.00- 120.00	100.00(a)
10.226	10.226 (1.081)	91	15872			177.45- 237.45	217.96
165 Styrene					CAS #: 100-42-5		
10.255	10.255 (1.084)	104	13110	0.50000	0.5212	80.00- 120.00	100.00
10.255	10.255 (1.084)	78	6253			17.88- 77.88	47.70
167 Bromoform					CAS #: 75-25-2		
10.549	10.542 (1.115)	173	8542	0.50000	0.4830	80.00- 120.00	100.00(a)
10.549	10.542 (1.115)	171	4517			21.25- 81.25	52.88
168 Cumene					CAS #: 98-82-8		
10.649	10.649 (1.126)	105	23217	0.50000	0.5024	80.00- 120.00	100.00
10.649	10.649 (1.126)	120	6594			0.00- 58.52	28.40
10.649	10.649 (1.126)	51	3671			0.00- 43.00	15.81
175 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
11.107	11.100 (1.174)	83	11440	0.50000	0.5072	80.00- 120.00	100.00
11.107	11.100 (1.174)	85	7316			35.20- 95.20	63.95
178 Propylbenzene					CAS #: 103-65-1		
11.150	11.150 (1.179)	120	6965	0.50000	0.5084	80.00- 120.00	100.00
11.150	11.150 (1.179)	91	26590			366.49- 426.49	381.77
11.150	11.150 (1.179)	105	910			0.00- 44.85	13.07
179 1,2,3-Trichloropropane					CAS #: 96-18-4		
11.179	11.179 (1.182)	110	4008	0.50000	0.5576	80.00- 120.00	100.00
11.179	11.179 (1.182)	75	11313			280.55- 340.55	282.26
11.100	11.100 (1.173)	61	1733			15.49- 75.49	43.24
183 4-Ethyltoluene					CAS #: 622-96-8		
11.286	11.287 (1.193)	120	8376	0.50000	0.5622	80.00- 120.00	100.00
11.286	11.287 (1.193)	105	23951			284.55- 344.55	285.95
184 2-Chlorotoluene					CAS #: 95-49-8		
11.308	11.308 (1.195)	126	6216	0.50000	0.5328	80.00- 120.00	100.00
11.308	11.308 (1.195)	91	20231			315.17- 375.17	325.47
11.294	11.301 (1.194)	65	3746			21.55- 81.55	60.26
185 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
11.358	11.365 (1.201)	120	10383	0.50000	0.5061	80.00- 120.00	100.00
11.358	11.365 (1.201)	105	18974			164.93- 224.93	182.74
188 alpha Methyl Styrene					CAS #: 98-83-9		
11.645	11.645 (1.231)	118	9624	0.50000	0.4722	80.00- 120.00	100.00(a)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
188 alpha Methyl Styrene (continued)							
11.645	11.645 (1.231)	103	5344			25.30- 85.30	55.53
190 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
11.816	11.817 (1.249)	105	19402	0.50000	0.5011	80.00- 120.00	100.00
11.816	11.817 (1.249)	120	9573			19.05- 79.05	49.34
192 sec-Butylbenzene					CAS #: 135-98-8		
11.996	11.996 (1.268)	134	6002	0.50000	0.5033	80.00- 120.00	100.00
11.996	11.996 (1.268)	105	29055			437.55- 497.55	484.09
11.996	11.996 (1.268)	91	4721			40.76- 100.76	78.66
194 p-Cymene					CAS #: 99-87-6		
12.153	12.160 (1.285)	119	27397	0.50000	0.5198	80.00- 120.00	100.00(a)
12.160	12.160 (1.285)	134	6978			0.00- 55.54	25.47
12.153	12.153 (1.285)	91	6676			0.00- 51.48	24.37
195 1,3-Dichlorobenzene					CAS #: 541-73-1		
12.203	12.196 (1.290)	146	12900	0.50000	0.4867	80.00- 120.00	100.00(a)
12.203	12.196 (1.290)	148	8737			33.21- 93.21	67.73
12.203	12.196 (1.290)	111	5935			11.31- 71.31	46.01
196 1,4-Dichlorobenzene					CAS #: 106-46-7		
12.311	12.311 (1.301)	146	13252	0.50000	0.4948	80.00- 120.00	100.00(a)
12.311	12.311 (1.301)	148	8912			33.90- 93.90	67.25
12.311	12.311 (1.301)	111	5613			9.45- 69.45	42.36
199 alpha-Chlorotoluene					CAS #: 100-44-7		
12.461	12.461 (1.317)	91	18333	0.50000	0.4985	80.00- 120.00	100.00(a)
12.461	12.461 (1.317)	126	4052			0.00- 53.26	22.10
202 Butylbenzene					CAS #: 104-51-8		
12.626	12.626 (1.335)	134	6974	0.50000	0.5210	80.00- 120.00	100.00
12.626	12.626 (1.335)	91	24024			314.79- 374.79	344.48
12.626	12.626 (1.335)	92	13531			154.29- 214.29	194.02
204 1,2-Dichlorobenzene					CAS #: 95-50-1		
12.733	12.741 (1.346)	146	13316	0.50000	0.5124	80.00- 120.00	100.00
12.741	12.741 (1.347)	148	8543			33.84- 93.84	64.16
12.733	12.741 (1.346)	111	6040			12.73- 72.73	45.36
207 Dodecane					CAS #: 112-40-3		
13.801	13.801 (1.459)	57	22758	0.61800	0.6916	80.00- 120.00	100.00(a)
13.801	13.801 (1.459)	43	20608			52.87- 112.87	90.55

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p051924.d
Lab Smp Id: ICAL Level 10
Analysis Type: VOA
Quant Type: ISTD
Operator: gh
Method File: /chem/msdp.i/19MAY21.b/p21q0519a.m
Misc Info: 0.5ppbv (5.0ppbv)

Calibration Date: 19-MAY-2021
Calibration Time: 15:55
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	158810	95286	222334	163846	3.17
108 1,4-Difluorobenze	597103	358262	835944	600718	0.61
153 Chlorobenzene-d5	587747	352648	822846	590361	0.44

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.78	5.45	6.11	5.78	-0.00
108 1,4-Difluorobenze	6.66	6.33	6.99	6.66	-0.00
153 Chlorobenzene-d5	9.46	9.13	9.79	9.46	-0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msdp.i/19MAY21.b/p051924.d

Date : 20-MAY-2021 00:05

Client ID:

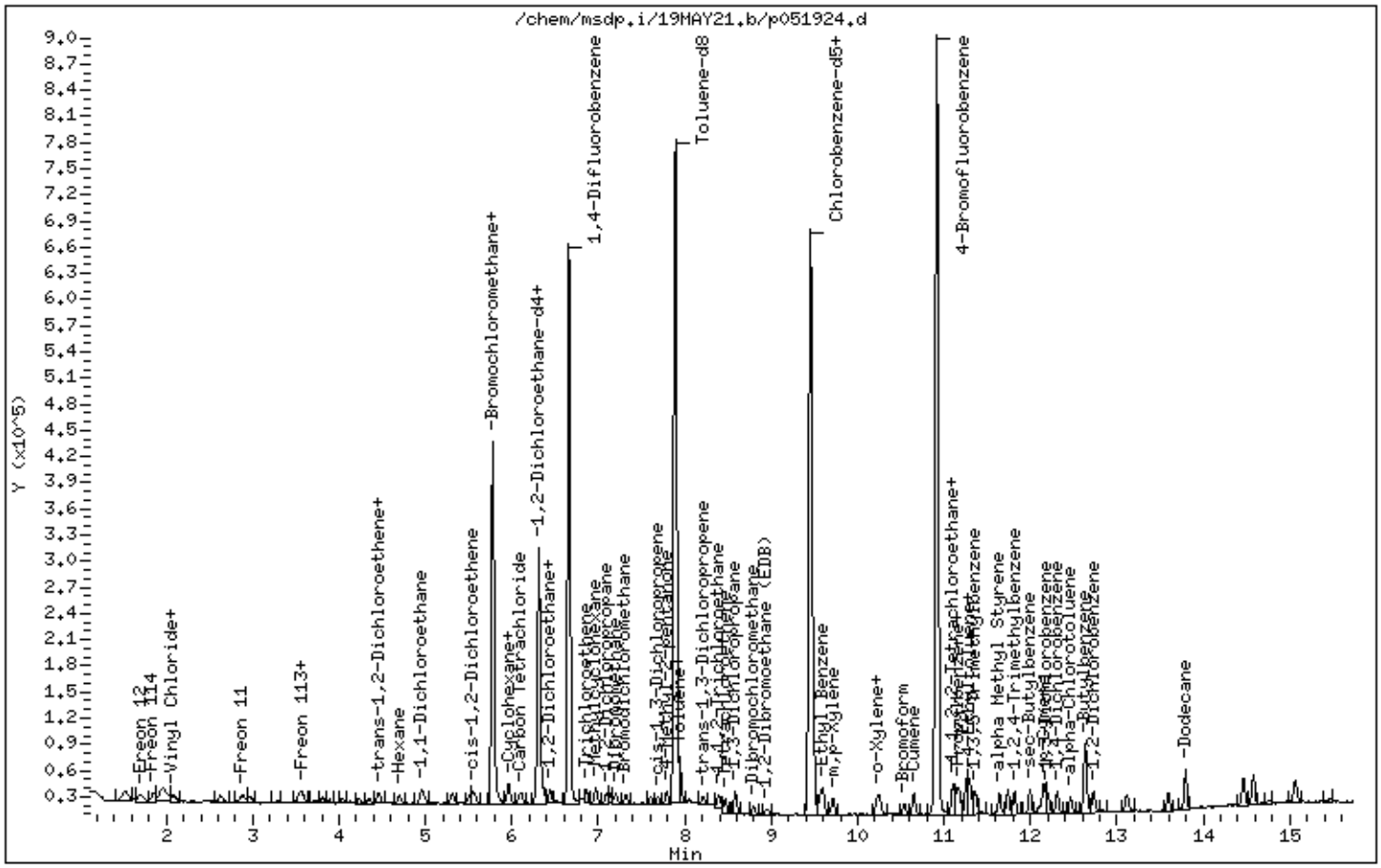
Instrument: msdp.i

Sample Info: 20mL 3018-2045

Operator: gh

Column phase: RTX-624

Column diameter: 0.25



US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/19MAY21.b/p051925.d
Lab Smp Id: ICV Client Smp ID: ICV
Inj Date : 20-MAY-2021 00:33
Operator : gh Inst ID: msdp.i
Smp Info : 50mL 3018-2016
Misc Info : 50ppbv (200ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/19MAY21.b/p21q0519a.m
Meth Date : 20-May-2021 11:31 lk8g Quant Type: ISTD
Cal Date : 19-MAY-2021 19:45 Cal File: p051915.d
Als bottle: 14 QC Sample: ICV
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT20LCS_new.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE		(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 90 Bromochloromethane						CAS #: 74-97-5		
5.778	5.778 (1.000)	130	159261	25.0000			80.00- 120.00	100.00
5.778	5.778 (1.000)	128	123314				48.23- 108.23	77.43
5.778	5.778 (1.000)	49	287112				150.57- 210.57	180.28
* 108 1,4-Difluorobenzene						CAS #: 540-36-3		
6.659	6.659 (1.000)	114	599327	25.0000			80.00- 120.00	100.00
6.659	6.659 (1.000)	88	93610				0.00- 45.71	15.62
* 153 Chlorobenzene-d5						CAS #: 3114-55-4		
9.460	9.460 (1.000)	117	583008	25.0000			80.00- 120.00	100.00
9.460	9.460 (1.000)	82	317926				23.78- 83.78	54.53
$ 104 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
6.308	6.308 (1.092)	65	217297	24.7232	24.723		80.00- 120.00	100.00
6.308	6.308 (1.092)	67	123853				27.21- 87.21	57.00
$ 134 Toluene-d8						CAS #: 2037-26-5		
7.891	7.891 (1.185)	98	648333	24.9118	24.912		80.00- 120.00	100.00
7.891	7.891 (1.185)	70	65745				0.00- 40.44	10.14

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 134 Toluene-d8 (continued)							
7.891	7.891 (1.185)	100	421967			34.95- 94.95	65.08
$ 170 4-Bromofluorobenzene					CAS #: 460-00-4		
10.921	10.921 (1.154)	174	376160	25.1259	25.126	80.00- 120.00	100.00
10.921	10.921 (1.154)	95	479143			95.92- 155.92	127.38
10.921	10.921 (1.154)	176	367133			66.89- 126.89	97.60
4 Freon 134a					CAS #: 811-97-2		
1.633	1.633 (0.283)	83	269381	53.4416	53.442	80.00- 120.00	100.00
1.633	1.633 (0.283)	69	238008			59.44- 119.44	88.35
1.745	1.745 (0.302)	51	1146080			419.06- 479.06	425.45
5 Propylene					CAS #: 115-07-1		
1.675	1.675 (0.290)	41	351150	48.1826	48.182	80.00- 120.00	100.00
1.675	1.675 (0.290)	42	231660			35.28- 95.28	65.97
1.675	1.675 (0.290)	39	239136			38.35- 98.35	68.10
7 1,1-Difluoroethane					CAS #: 75-37-6		
1.703	1.703 (0.295)	65	184945	51.2320	51.232	80.00- 120.00	100.00
1.745	1.745 (0.302)	51	1146080			597.63- 657.63	619.69
1.703	1.703 (0.295)	47	118519			33.72- 93.72	64.08
8 Freon 12					CAS #: 75-71-8		
1.717	1.717 (0.297)	85	729033	51.0385	51.038	80.00- 120.00	100.00
1.717	1.717 (0.297)	87	236858			2.37- 62.37	32.49
9 Chlorodifluoromethane					CAS #: 75-45-6		
1.745	1.745 (0.302)	67	72194	51.1662	51.166	80.00- 120.00	100.00
1.745	1.745 (0.302)	51	1146080			1501.01-1561.01	1587.50
10 Freon 114					CAS #: 76-14-2		
1.856	1.856 (0.321)	135	701038	49.9978	49.998	80.00- 120.00	100.00
1.856	1.856 (0.321)	137	225650			2.30- 62.30	32.19
12 Isobutane					CAS #: 75-28-5		
1.870	1.870 (0.324)	43	765128	47.4212	47.421	80.00- 120.00	100.00
1.870	1.870 (0.324)	42	246889			2.44- 62.44	32.27
1.856	1.856 (0.321)	58	25257			0.00- 33.36	3.30
15 Chloromethane					CAS #: 74-87-3		
1.940	1.940 (0.336)	50	437995	52.8545	52.854	80.00- 120.00	100.00
1.940	1.940 (0.336)	52	114348			0.00- 56.26	26.11
18 Butane					CAS #: 106-97-8		
2.025	2.025 (0.350)	58	80145	41.7506	41.751	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
18 Butane (continued)							
2.025	2.025 (0.350)	43	645591			823.29- 883.29	805.53
19 Vinyl Chloride					CAS #: 75-01-4		
2.068	2.068 (0.358)	62	464010	46.5443	46.544	80.00- 120.00	100.00
2.068	2.068 (0.358)	64	139745			0.00- 59.69	30.12
20 1,3-Butadiene					CAS #: 106-99-0		
2.089	2.089 (0.362)	54	446648	55.7047	55.705	80.00- 120.00	100.00
2.089	2.089 (0.362)	39	360563			52.37- 112.37	80.73
24 Bromomethane					CAS #: 74-83-9		
2.483	2.483 (0.430)	94	297578	46.4227	46.423	80.00- 120.00	100.00
2.483	2.483 (0.430)	96	278799			64.07- 124.07	93.69
30 Chloroethane					CAS #: 75-00-3		
2.612	2.612 (0.452)	64	171538	47.8510	47.851	80.00- 120.00	100.00
2.612	2.612 (0.452)	66	50751			0.04- 60.04	29.59
2.612	2.612 (0.452)	49	59140			4.54- 64.54	34.48
31 Isopentane					CAS #: 78-78-4		
2.634	2.634 (0.456)	43	529089	48.5043	48.504	80.00- 120.00	100.00
2.634	2.634 (0.456)	57	338228			34.12- 94.12	63.93
32 Vinyl Bromide					CAS #: 593-60-2		
2.841	2.841 (0.492)	106	279438	47.1623	47.162	80.00- 120.00	100.00
2.841	2.841 (0.492)	108	273101			69.27- 129.27	97.73
33 Freon 11					CAS #: 75-69-4		
2.884	2.884 (0.499)	101	742373	48.9075	48.908	80.00- 120.00	100.00
2.884	2.884 (0.499)	103	483442			34.72- 94.72	65.12
34 Dichlorofluoromethane					CAS #: 75-43-4		
2.899	2.899 (0.502)	67	646344	49.4042	49.404	80.00- 120.00	100.00
2.899	2.899 (0.502)	69	195128			0.84- 60.84	30.19
35 Pentane					CAS #: 109-66-0		
2.970	2.970 (0.514)	43	832217	46.9376	46.938	80.00- 120.00	100.00
2.970	2.970 (0.514)	57	122475			0.00- 44.98	14.72
2.970	2.970 (0.514)	72	59490			0.00- 37.39	7.15
38 Ethyl Ether					CAS #: 60-29-7		
3.285	3.285 (0.569)	74	152084	50.8427	50.843	80.00- 120.00	100.00
3.285	3.285 (0.569)	59	294053			163.46- 223.46	193.35
3.285	3.285 (0.569)	45	421334			250.40- 310.40	277.04

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
39 Ethanol					CAS #: 64-17-5		
3.242	3.242 (0.561)	46	73066	46.2624	46.262	80.00- 120.00	100.00
3.285	3.242 (0.569)	45	419314			511.19- 571.19	573.88
42 Acrolein					CAS #: 107-02-8		
3.536	3.529 (0.612)	55	138287	50.4592	50.459	80.00- 120.00	100.00
3.536	3.529 (0.612)	56	194444			111.10- 171.10	140.61
43 Freon 113					CAS #: 76-13-1		
3.550	3.550 (0.614)	151	550653	48.8270	48.827	80.00- 120.00	100.00
3.550	3.550 (0.614)	153	354592			33.56- 93.56	64.39
3.550	3.550 (0.614)	101	666533			89.21- 149.21	121.04
44 1,1-Dichloroethene					CAS #: 75-35-4		
3.579	3.579 (0.619)	96	337843	50.1462	50.146	80.00- 120.00	100.00
3.579	3.579 (0.619)	98	214195			34.02- 94.02	63.40
3.579	3.579 (0.619)	61	675008			168.77- 228.77	199.80
47 Acetone					CAS #: 67-64-1		
3.715	3.708 (0.643)	58	199513	47.7852	47.785	80.00- 120.00	100.00
3.715	3.708 (0.643)	43	667100			302.95- 362.95	334.36
48 Carbon Disulfide					CAS #: 75-15-0		
3.823	3.823 (0.662)	76	862293	48.5817	48.582	80.00- 120.00	100.00
49 Iodomethane					CAS #: 74-88-4		
3.794	3.794 (0.657)	142	700808	59.3954	59.395	80.00- 120.00	100.00
3.794	3.794 (0.657)	127	293044			12.22- 72.22	41.82
52 2-Propanol					CAS #: 67-63-0		
3.887	3.887 (0.673)	45	849259	50.4689	50.469	80.00- 120.00	100.00
3.887	3.887 (0.673)	43	140946			0.00- 47.19	16.60
54 3-Chloropropene					CAS #: 107-05-1		
4.045	4.052 (0.700)	76	145308	49.0044	49.004	80.00- 120.00	100.00
4.045	4.052 (0.700)	41	618664			396.19- 456.19	425.76
57 Acetonitrile					CAS #: 75-05-8		
4.123	4.123 (0.714)	41	381456	48.6371	48.637	80.00- 120.00	100.00
4.123	4.123 (0.714)	40	193635			20.95- 80.95	50.76
4.123	4.123 (0.714)	38	41374			0.00- 41.17	10.85
59 Methylene Chloride					CAS #: 75-09-2		
4.238	4.238 (0.733)	49	531632	49.0219	49.022	80.00- 120.00	100.00
4.238	4.238 (0.733)	84	271047			22.03- 82.03	50.98
4.238	4.238 (0.733)	51	161032			0.18- 60.18	30.29

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
62 tert-Butyl alcohol					CAS #: 75-65-0		
4.338	4.338 (0.751)	59	909661	46.3560	46.356	80.00- 120.00	100.00
4.338	4.338 (0.751)	41	192086			0.00- 51.11	21.12
4.338	4.338 (0.751)	57	96676			0.00- 40.49	10.63
63 Methyl tert-butyl ether					CAS #: 1634-04-4		
4.446	4.446 (0.769)	73	942632	48.1957	48.196	80.00- 120.00	100.00
4.446	4.446 (0.769)	57	317705			3.10- 63.10	33.70
4.446	4.446 (0.769)	41	299560			1.28- 61.28	31.78
64 trans-1,2-Dichloroethene					CAS #: 156-60-5		
4.474	4.482 (0.774)	98	218803	48.6055	48.605	80.00- 120.00	100.00
4.474	4.482 (0.774)	61	620102			255.84- 315.84	283.41
4.474	4.482 (0.774)	96	343318			127.59- 187.59	156.91
66 Acrylonitrile					CAS #: 107-13-1		
4.560	4.560 (0.789)	52	303698	48.4637	48.464	80.00- 120.00	100.00
4.560	4.560 (0.789)	53	359381			88.05- 148.05	118.33
67 Hexane					CAS #: 110-54-3		
4.697	4.697 (0.813)	57	776348	49.4834	49.483	80.00- 120.00	100.00
4.697	4.697 (0.813)	43	525013			37.52- 97.52	67.63
4.697	4.697 (0.813)	86	88068			0.00- 41.48	11.34
71 1,1-Dichloroethane					CAS #: 75-34-3		
4.962	4.962 (0.859)	63	682714	50.6181	50.618	80.00- 120.00	100.00
4.962	4.962 (0.859)	65	199004			0.00- 59.70	29.15
72 Isopropyl ether					CAS #: 108-20-3		
4.947	4.954 (0.856)	45	1790476	49.0696	49.070	80.00- 120.00	100.00
4.954	4.954 (0.857)	87	321907			0.00- 48.18	17.98
4.954	4.954 (0.857)	59	180794			0.00- 40.15	10.10
73 Vinyl Acetate					CAS #: 108-05-4		
4.997	4.997 (0.865)	86	88227	50.8989	50.899	80.00- 120.00	100.00
4.990	4.997 (0.864)	43	2127436			2432.48-2492.48	2411.32
79 Ethyl-tert-butyl ether					CAS #: 637-92-3		
5.305	5.305 (0.918)	59	1542046	48.8215	48.821	80.00- 120.00	100.00
5.305	5.305 (0.918)	87	471804			1.00- 61.00	30.60
5.305	5.305 (0.918)	41	285817			0.00- 48.73	18.53
84 2,2-Dichloropropane					CAS #: 594-20-7		
5.506	5.506 (0.953)	77	590380	49.2930	49.293	80.00- 120.00	100.00
5.506	5.506 (0.953)	79	190828			2.28- 62.28	32.32
5.513	5.506 (0.954)	97	143176			0.00- 53.93	24.25

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
85 cis-1,2-Dichloroethene					CAS #: 156-59-2		
5.549	5.549 (0.960)	98	233240	49.9273	49.927	80.00- 120.00	100.00
5.549	5.549 (0.960)	96	363999			125.75- 185.75	156.06
5.549	5.549 (0.960)	61	845213			332.40- 392.40	362.38
86 2-Butanone					CAS #: 78-93-3		
5.556	5.556 (0.962)	72	172909	48.0341	48.034	80.00- 120.00	100.00
5.563	5.556 (0.963)	43	2166913			1214.50-1274.50	1253.21
5.556	5.556 (0.962)	57	75659			14.68- 74.68	43.76
87 Ethyl Acetate					CAS #: 141-78-6		
5.570	5.570 (0.964)	45	177582	49.5968	49.597	80.00- 120.00	100.00
5.549	5.549 (0.960)	61	845213			452.04- 512.04	475.96
5.570	5.570 (0.964)	70	92639			22.77- 82.77	52.17
89 Tetrahydrofuran					CAS #: 109-99-9		
5.771	5.771 (0.999)	42	596496	49.8249	49.825	80.00- 120.00	100.00
5.771	5.771 (0.999)	71	151172			0.00- 55.82	25.34
5.771	5.771 (0.999)	72	164276			0.00- 57.59	27.54
92 Chloroform					CAS #: 67-66-3		
5.835	5.835 (1.010)	83	698985	50.4429	50.443	80.00- 120.00	100.00
5.835	5.835 (1.010)	85	450734			34.70- 94.70	64.48
94 Cyclohexane					CAS #: 110-82-7		
5.957	5.957 (1.031)	84	484683	48.3805	48.380	80.00- 120.00	100.00
5.957	5.957 (1.031)	56	852306			142.57- 202.57	175.85
5.957	5.957 (1.031)	41	457785			62.09- 122.09	94.45
96 1,1,1-Trichloroethane					CAS #: 71-55-6		
5.972	5.972 (1.033)	97	760233	48.5642	48.564	80.00- 120.00	100.00
5.972	5.972 (1.033)	99	490526			34.02- 94.02	64.52
97 Carbon Tetrachloride					CAS #: 56-23-5		
6.086	6.086 (1.053)	119	745174	50.7546	50.755	80.00- 120.00	100.00
6.086	6.086 (1.053)	117	752839			70.64- 130.64	101.03
99 1,1-Dichloropropene					CAS #: 563-58-6		
6.115	6.115 (0.918)	110	203160	49.7993	49.799	80.00- 120.00	100.00
6.115	6.115 (0.918)	75	511996			226.85- 286.85	252.02
101 2,2,4-Trimethylpentane					CAS #: 540-84-1		
6.280	6.280 (1.087)	57	2687519	49.2841	49.284	80.00- 120.00	100.00
6.280	6.280 (1.087)	56	862052			2.24- 62.24	32.08
6.280	6.280 (1.087)	41	651161			0.00- 54.39	24.23

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
102 Benzene					CAS #: 71-43-2		
6.301	6.301 (0.946)	78	1008062	50.9701	50.970	80.00- 120.00	100.00
6.301	6.301 (0.946)	77	234415			0.00- 52.90	23.25
105 tert-Amyl methyl ether					CAS #: 994-05-8		
6.358	6.358 (0.955)	87	277129	49.6938	49.694	80.00- 120.00	100.00
6.358	6.358 (0.955)	73	1123129			372.79- 432.79	405.27
6.358	6.358 (0.955)	55	386701			112.09- 172.09	139.54
106 1,2-Dichloroethane					CAS #: 107-06-2		
6.380	6.380 (0.958)	62	539745	52.4480	52.448	80.00- 120.00	100.00
6.380	6.380 (0.958)	64	168125			0.79- 60.79	31.15
107 Heptane					CAS #: 142-82-5		
6.444	6.444 (0.968)	71	404133	51.5803	51.580	80.00- 120.00	100.00
6.444	6.444 (0.968)	43	1034181			226.53- 286.53	255.90
6.444	6.444 (0.968)	57	534196			100.85- 160.85	132.18
110 n-Butanol					CAS #: 71-36-3		
6.810	6.810 (1.023)	56	349325	48.5815	48.581	80.00- 120.00	100.00
6.810	6.810 (1.023)	41	250704			40.99- 100.99	71.77
6.810	6.810 (1.023)	43	202468			27.38- 87.38	57.96
111 Trichloroethene					CAS #: 79-01-6		
6.867	6.867 (1.031)	95	487275	50.7743	50.774	80.00- 120.00	100.00
6.867	6.867 (1.031)	130	525030			76.29- 136.29	107.75
6.867	6.867 (1.031)	97	316440			33.63- 93.63	64.94
114 1,2-Dichloropropane					CAS #: 78-87-5		
7.089	7.089 (1.065)	63	501779	49.4882	49.488	80.00- 120.00	100.00
7.089	7.089 (1.065)	62	357412			41.07- 101.07	71.23
7.096	7.089 (1.066)	41	260924			22.53- 82.53	52.00
116 Methyl Methacrylate					CAS #: 80-62-6		
7.139	7.132 (0.755)	69	396710	49.5227	49.523	80.00- 120.00	100.00
7.132	7.132 (0.754)	41	847515			179.84- 239.84	213.64
7.139	7.139 (0.755)	100	159570			9.59- 69.59	40.22
117 1,4-Dioxane					CAS #: 123-91-1		
7.175	7.175 (1.077)	88	259955	48.2421	48.242	80.00- 120.00	100.00
7.175	7.175 (1.077)	58	255954			68.28- 128.28	98.46
7.175	7.175 (1.077)	57	86664			2.68- 62.68	33.34
118 Dibromomethane					CAS #: 74-95-3		
7.204	7.204 (0.761)	174	458044	52.9443	52.944	80.00- 120.00	100.00
7.204	7.204 (0.761)	93	407519			60.09- 120.09	88.97

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
118 Dibromomethane (continued)							
7.204	7.204 (0.761)	95	354189			48.38- 108.38	77.33
122 Bromodichloromethane					CAS #: 75-27-4		
7.318	7.318 (1.099)	83	770056	51.7510	51.751	80.00- 120.00	100.00
7.318	7.318 (1.099)	85	492807			35.24- 95.24	64.00
126 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.691	7.691 (1.155)	75	636121	50.6019	50.602	80.00- 120.00	100.00
7.691	7.691 (1.155)	77	200691			2.42- 62.42	31.55
7.691	7.691 (1.155)	39	434030			37.16- 97.16	68.23
127 Methylcyclohexane					CAS #: 108-87-2		
6.974	6.974 (1.047)	83	691986	49.8280	49.828	80.00- 120.00	100.00
6.974	6.974 (1.047)	98	322440			15.78- 75.78	46.60
6.974	6.974 (1.047)	55	795373			84.64- 144.64	114.94
131 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.791	7.791 (1.170)	58	480926	46.7077	46.708	80.00- 120.00	100.00
7.791	7.791 (1.170)	43	1325477			242.35- 302.35	275.61
7.798	7.791 (1.171)	85	161202			3.24- 63.24	33.52
137 Toluene					CAS #: 108-88-3		
7.949	7.949 (1.194)	91	1343637	49.2421	49.242	80.00- 120.00	100.00
7.949	7.949 (1.194)	92	787609			28.38- 88.38	58.62
136 Octane					CAS #: 111-65-9		
7.949	7.949 (1.194)	57	566390	48.6818	48.682	80.00- 120.00	100.00
7.949	7.949 (1.194)	85	479927			56.00- 116.00	84.73
7.949	7.949 (1.194)	43	1456775			228.66- 288.66	257.20
139 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
8.214	8.214 (0.868)	75	600175	52.3121	52.312	80.00- 120.00	100.00
8.214	8.214 (0.868)	77	190922			1.24- 61.24	31.81
8.214	8.214 (0.868)	39	389221			34.11- 94.11	64.85
141 1,1,2-Trichloroethane					CAS #: 79-00-5		
8.400	8.400 (0.888)	97	476355	50.2326	50.232	80.00- 120.00	100.00
8.400	8.400 (0.888)	99	296859			31.96- 91.96	62.32
8.400	8.400 (0.888)	83	396895			52.93- 112.93	83.32
142 Tetrachloroethene					CAS #: 127-18-4		
8.464	8.464 (0.895)	166	682961	51.3998	51.400	80.00- 120.00	100.00
8.464	8.464 (0.895)	129	535513			47.84- 107.84	78.41
8.464	8.464 (0.895)	131	516602			45.29- 105.29	75.64

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
143 2-Hexanone					CAS #: 591-78-6		
8.586	8.586 (0.908)	58	657966	48.5640	48.564	80.00- 120.00	100.00
8.586	8.586 (0.908)	43	1278689			162.87- 222.87	194.34
8.586	8.586 (0.908)	100	102219			0.00- 45.94	15.54
144 1,3-Dichloropropane					CAS #: 142-28-9		
8.579	8.579 (1.288)	76	649887	50.1538	50.154	80.00- 120.00	100.00
8.579	8.579 (1.288)	41	820466			94.99- 154.99	126.25
8.579	8.579 (1.288)	78	211986			2.05- 62.05	32.62
146 Dibromochloromethane					CAS #: 124-48-1		
8.801	8.801 (0.930)	129	922140	52.0444	52.044	80.00- 120.00	100.00
8.801	8.801 (0.930)	127	712882			47.45- 107.45	77.31
148 1,2-Dibromoethane (EDB)					CAS #: 106-93-4		
8.951	8.951 (0.946)	107	783569	51.5187	51.519	80.00- 120.00	100.00
8.951	8.951 (0.946)	109	740572			64.21- 124.21	94.51
151 1-Bromo-2-Chloroethane					CAS #: 107-04-0		
7.605	7.605 (1.142)	63	920567	49.4826	49.482	80.00- 120.00	100.00
7.605	7.605 (1.142)	65	271612			0.00- 59.64	29.50
7.605	7.605 (1.142)	144	89030			0.00- 39.63	9.67
154 Chlorobenzene					CAS #: 108-90-7		
9.496	9.496 (1.004)	112	1170183	50.5473	50.547	80.00- 120.00	100.00
9.496	9.496 (1.004)	114	376526			1.74- 61.74	32.18
9.496	9.496 (1.004)	77	640652			25.04- 85.04	54.75
155 Ethyl Benzene					CAS #: 100-41-4		
9.567	9.567 (1.011)	106	610182	50.4060	50.406	80.00- 120.00	100.00
9.567	9.567 (1.011)	91	1864363			273.74- 333.74	305.54
156 Nonane					CAS #: 111-84-2		
9.603	9.596 (1.015)	43	1509244	48.4576	48.458	80.00- 120.00	100.00
9.603	9.603 (1.015)	57	1271714			54.16- 114.16	84.26
9.603	9.603 (1.015)	85	358055			0.00- 53.90	23.72
157 1,1,1,2-Tetrachloroethane					CAS #: 630-20-6		
9.596	9.596 (1.014)	131	532758	41.1032	41.103	80.00- 120.00	100.00
9.460	9.460 (1.000)	117	583008			57.42- 117.42	109.43
9.596	9.596 (1.014)	95	192120			5.70- 65.70	36.06
158 m,p-Xylene					CAS #: 108-38-3		
9.718	9.718 (1.027)	106	760695	50.1737	50.174	80.00- 120.00	100.00
9.718	9.718 (1.027)	91	1493758			163.73- 223.73	196.37

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
164 o-Xylene					CAS #: 95-47-6		
10.226	10.226 (1.081)	106	723870	49.8321	49.832	80.00- 120.00	100.00
10.226	10.226 (1.081)	91	1494892			177.45- 237.45	206.51
165 Styrene					CAS #: 100-42-5		
10.255	10.255 (1.084)	104	1208123	48.6312	48.631	80.00- 120.00	100.00
10.255	10.255 (1.084)	78	579213			17.88- 77.88	47.94
167 Bromoform					CAS #: 75-25-2		
10.542	10.542 (1.114)	173	906568	51.9083	51.908	80.00- 120.00	100.00
10.542	10.542 (1.114)	171	460931			21.25- 81.25	50.84
168 Cumene					CAS #: 98-82-8		
10.649	10.649 (1.126)	105	2265548	49.6487	49.649	80.00- 120.00	100.00
10.649	10.649 (1.126)	120	647806			0.00- 58.52	28.59
10.649	10.649 (1.126)	51	293698			0.00- 43.00	12.96
169 Cyclohexanone					CAS #: 108-94-1		
10.871	10.871 (1.149)	55	751578	46.0550	46.055	80.00- 120.00	100.00
10.871	10.871 (1.149)	98	241627			1.94- 61.94	32.15
10.871	10.871 (1.149)	42	519433			37.89- 97.89	69.11
175 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
11.107	11.100 (1.174)	83	1111439	49.9028	49.903	80.00- 120.00	100.00
11.107	11.100 (1.174)	85	714222			35.20- 95.20	64.26
177 Bromobenzene					CAS #: 108-86-1		
11.107	11.107 (1.174)	156	712211	51.3180	51.318	80.00- 120.00	100.00
11.107	11.107 (1.174)	158	694838			67.21- 127.21	97.56
11.179	11.179 (1.182)	77	448248			29.02- 89.02	62.94
178 Propylbenzene					CAS #: 103-65-1		
11.150	11.150 (1.179)	120	673698	49.7919	49.792	80.00- 120.00	100.00
11.150	11.150 (1.179)	91	2670473			366.49- 426.49	396.39
11.150	11.150 (1.179)	105	100975			0.00- 44.85	14.99
179 1,2,3-Trichloropropane					CAS #: 96-18-4		
11.179	11.179 (1.182)	110	347282	48.9223	48.922	80.00- 120.00	100.00
11.179	11.179 (1.182)	75	1167359			280.55- 340.55	336.14
11.100	11.100 (1.173)	61	156927			15.49- 75.49	45.19
181 trans-1,4-Dichloro-2-butene					CAS #: 110-57-6		
11.179	11.179 (1.182)	53	340414	73.1510	73.151	80.00- 120.00	100.00(R)
11.179	11.179 (1.182)	89	238240			49.11- 109.11	69.99
11.179	11.179 (1.182)	75	1167359			426.44- 486.44	342.92

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
182 Decane					CAS #: 124-18-5		
11.251	11.251 (1.189)	57	1694913	47.7517	47.752	80.00- 120.00	100.00
11.251	11.251 (1.189)	71	465002			0.00- 57.66	27.44
11.258	11.258 (1.190)	142	69403			0.00- 34.09	4.09
183 4-Ethyltoluene					CAS #: 622-96-8		
11.287	11.287 (1.193)	120	721474	49.0325	49.032	80.00- 120.00	100.00
11.287	11.287 (1.193)	105	2282704			284.55- 344.55	316.39
184 2-Chlorotoluene					CAS #: 95-49-8		
11.308	11.308 (1.195)	126	570341	49.5063	49.506	80.00- 120.00	100.00
11.308	11.308 (1.195)	91	1973274			315.17- 375.17	345.98
11.301	11.301 (1.195)	65	288198			21.55- 81.55	50.53
185 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
11.365	11.365 (1.201)	120	1019008	50.3002	50.300	80.00- 120.00	100.00
11.365	11.365 (1.201)	105	1992138			164.93- 224.93	195.50
188 alpha Methyl Styrene					CAS #: 98-83-9		
11.645	11.645 (1.231)	118	1011075	50.2389	50.239	80.00- 120.00	100.00
11.645	11.645 (1.231)	103	559661			25.30- 85.30	55.35
189 tert-Butylbenzene					CAS #: 98-06-6		
11.738	11.738 (1.241)	119	1828423	48.2549	48.255	80.00- 120.00	100.00
11.738	11.738 (1.241)	134	453008			0.00- 54.25	24.78
11.738	11.738 (1.241)	91	1113434			31.27- 91.27	60.90
190 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
11.817	11.817 (1.249)	105	1940625	50.7513	50.751	80.00- 120.00	100.00
11.817	11.817 (1.249)	120	961894			19.05- 79.05	49.57
192 sec-Butylbenzene					CAS #: 135-98-8		
11.996	11.996 (1.268)	134	587147	49.8567	49.857	80.00- 120.00	100.00
11.996	11.996 (1.268)	105	2755895			437.55- 497.55	469.37
11.996	11.996 (1.268)	91	411332			40.76- 100.76	70.06
194 p-Cymene					CAS #: 99-87-6		
12.160	12.160 (1.285)	119	2592253	49.8015	49.802	80.00- 120.00	100.00
12.160	12.160 (1.285)	134	667083			0.00- 55.54	25.73
12.160	12.153 (1.285)	91	550118			0.00- 51.48	21.22
195 1,3-Dichlorobenzene					CAS #: 541-73-1		
12.203	12.196 (1.290)	146	1321489	50.4912	50.491	80.00- 120.00	100.00
12.203	12.196 (1.290)	148	844750			33.21- 93.21	63.92
12.196	12.196 (1.289)	111	544933			11.31- 71.31	41.24

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
196 1,4-Dichlorobenzene					CAS #: 106-46-7		
12.311	12.311 (1.301)	146	1351414	51.0959	51.096	80.00- 120.00	100.00
12.311	12.311 (1.301)	148	860632			33.90- 93.90	63.68
12.311	12.311 (1.301)	111	545078			9.45- 69.45	40.33
199 alpha-Chlorotoluene					CAS #: 100-44-7		
12.461	12.461 (1.317)	91	1867138	51.4087	51.409	80.00- 120.00	100.00
12.468	12.461 (1.318)	126	432223			0.00- 53.26	23.15
201 Undecane					CAS #: 1120-21-4		
12.640	12.640 (1.336)	57	2141161	52.2242	52.224	80.00- 120.00	100.00
12.640	12.640 (1.336)	43	1903384			58.12- 118.12	88.89
202 Butylbenzene					CAS #: 104-51-8		
12.626	12.626 (1.335)	134	659133	49.8581	49.858	80.00- 120.00	100.00
12.626	12.626 (1.335)	91	2279398			314.79- 374.79	345.82
12.626	12.626 (1.335)	92	1217501			154.29- 214.29	184.71
204 1,2-Dichlorobenzene					CAS #: 95-50-1		
12.741	12.741 (1.347)	146	1280596	49.8997	49.900	80.00- 120.00	100.00
12.741	12.741 (1.347)	148	810645			33.84- 93.84	63.30
12.741	12.741 (1.347)	111	542670			12.73- 72.73	42.38
206 1,2-Dibromo-3-chloropropane					CAS #: 96-12-8		
13.614	13.600 (1.439)	157	808811	52.0350	52.035	80.00- 120.00	100.00
13.614	13.600 (1.439)	75	667140			52.48- 112.48	82.48
13.614	13.600 (1.439)	155	627024			47.41- 107.41	77.52
207 Dodecane					CAS #: 112-40-3		
13.822	13.801 (1.461)	57	2491393	76.6649	76.665	80.00- 120.00	100.00(R)
13.822	13.801 (1.461)	43	2053107			52.87- 112.87	82.41
213 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
14.496	14.467 (1.532)	180	1351062	71.2544	71.254	80.00- 120.00	100.00
14.496	14.467 (1.532)	182	1288755			65.33- 125.33	95.39
215 Hexachlorobutadiene					CAS #: 87-68-3		
14.617	14.582 (1.545)	225	961978	72.0891	72.089	80.00- 120.00	100.00
14.617	14.582 (1.545)	223	615317			33.17- 93.17	63.96
216 Naphthalene					CAS #: 91-20-3		
14.796	14.768 (1.564)	128	329062	6.79056	6.790	80.00- 120.00	100.00
14.804	14.768 (1.565)	127	41782			0.00- 42.88	12.70
222 1,2,3-Trichlorobenzene					CAS #: 87-61-6		
15.104	15.069 (1.597)	180	1290198	76.9717	76.972	80.00- 120.00	100.00(R)

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
222 1,2,3-Trichlorobenzene (continued)							
15.104	15.069 (1.597)	182	1235122			65.75- 125.75	95.73
15.104	15.069 (1.597)	145	454864			5.23- 65.23	35.26

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p051925.d
Lab Smp Id: ICV
Analysis Type: VOA
Quant Type: ISTD
Operator: gh
Method File: /chem/msdp.i/19MAY21.b/p21q0519a.m
Misc Info: 50ppbv (200ppbv)

Calibration Date: 19-MAY-2021
Calibration Time: 15:55
Client Smp ID: ICV
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	158810	95286	222334	159261	0.28
108 1,4-Difluorobenze	597103	358262	835944	599327	0.37
153 Chlorobenzene-d5	587747	352648	822846	583008	-0.81

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.78	5.45	6.11	5.78	-0.00
108 1,4-Difluorobenze	6.66	6.33	6.99	6.66	-0.00
153 Chlorobenzene-d5	9.46	9.13	9.79	9.46	-0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 20-May-2021 11:42

US32TAR1

RECOVERY REPORT

Client Name: Client SDG: 19MAY21
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: ICV Client Smp ID: ICV
Level: LOW Operator: gh
Data Type: MS DATA SampleType: ICV
SpikeList File: AT20_new.spk Quant Type: ISTD
Sublist File: AT20LCS_new.sub
Method File: /chem/msdp.i/19MAY21.b/p21q0519a.m
Misc Info: 50ppbv (200ppbv)

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
4 Freon 134a	50.000	53.442	106.88	70-130
5 Propylene	50.000	48.182	96.37	70-130
7 1,1-Difluoroethan	50.000	51.232	102.46	70-130
8 Freon 12	50.000	51.038	102.08	70-130
9 Chlorodifluoromet	50.000	51.166	102.33	70-130
10 Freon 114	50.000	49.998	100.00	70-130
12 Isobutane	50.000	47.421	94.84	70-130
15 Chloromethane	50.000	52.854	105.71	70-130
18 Butane	50.000	41.751	83.50	70-130
19 Vinyl Chloride	50.000	46.544	93.09	70-130
20 1,3-Butadiene	50.000	55.705	111.41	70-130
24 Bromomethane	50.000	46.423	92.85	70-130
30 Chloroethane	50.000	47.851	95.70	70-130
31 Isopentane	50.000	48.504	97.01	70-130
32 Vinyl Bromide	50.000	47.162	94.32	70-130
33 Freon 11	50.000	48.908	97.82	70-130
34 Dichlorofluoromet	50.000	49.404	98.81	70-130
35 Pentane	50.000	46.938	93.88	70-130
38 Ethyl Ether	50.000	50.843	101.69	70-130
39 Ethanol	58.000	46.262	79.76	70-130
42 Acrolein	58.000	50.459	87.00	70-130
43 Freon 113	50.000	48.827	97.65	70-130
44 1,1-Dichloroethen	50.000	50.146	100.29	70-130
47 Acetone	50.000	47.785	95.57	70-130
48 Carbon Disulfide	50.000	48.582	97.16	70-130
49 Iodomethane	50.000	59.395	118.79	70-130
52 2-Propanol	50.000	50.469	100.94	70-130
54 3-Chloropropene	50.000	49.004	98.01	70-130
57 Acetonitrile	50.000	48.637	97.27	70-130
59 Methylene Chlorid	50.000	49.022	98.04	70-130
62 tert-Butyl alcoho	50.000	46.356	92.71	70-130
63 Methyl tert-butyl	50.000	48.196	96.39	70-130
64 trans-1,2-Dichlor	50.000	48.605	97.21	70-130

	SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
66	Acrylonitrile	50.000	48.464	96.93	70-130
67	Hexane	50.000	49.483	98.97	70-130
71	1,1-Dichloroethan	50.000	50.618	101.24	70-130
72	Isopropyl ether	50.000	49.070	98.14	70-130
73	Vinyl Acetate	50.000	50.899	101.80	70-130
79	Ethyl-tert-butyl	50.000	48.821	97.64	70-130
84	2,2-Dichloropropa	50.000	49.293	98.59	70-130
85	cis-1,2-Dichloroe	50.000	49.927	99.85	70-130
86	2-Butanone	50.000	48.034	96.07	70-130
87	Ethyl Acetate	50.000	49.597	99.19	70-130
89	Tetrahydrofuran	50.000	49.825	99.65	70-130
92	Chloroform	50.000	50.443	100.89	70-130
94	Cyclohexane	50.000	48.380	96.76	70-130
96	1,1,1-Trichloroet	50.000	48.564	97.13	70-130
99	1,1-Dichloroprope	50.000	49.799	99.60	70-130
97	Carbon Tetrachlor	50.000	50.755	101.51	70-130
101	2,2,4-Trimethylpe	50.000	49.284	98.57	70-130
102	Benzene	50.000	50.970	101.94	70-130
105	tert-Amyl methyl	50.000	49.694	99.39	70-130
106	1,2-Dichloroethan	50.000	52.448	104.90	70-130
107	Heptane	50.000	51.580	103.16	70-130
110	n-Butanol	50.000	48.581	97.16	70-130
111	Trichloroethene	50.000	50.774	101.55	70-130
118	Dibromomethane	50.000	52.944	105.89	70-130
127	Methylcyclohexane	50.000	49.828	99.66	70-130
114	1,2-Dichloropropa	50.000	49.488	98.98	70-130
116	Methyl Methacryla	50.000	49.523	99.05	70-130
117	1,4-Dioxane	50.000	48.242	96.48	70-130
122	Bromodichlorometh	50.000	51.751	103.50	70-130
126	cis-1,3-Dichlorop	50.000	50.602	101.20	70-130
131	4-Methyl-2-pentan	50.000	46.708	93.42	70-130
136	Octane	50.000	48.682	97.36	70-130
137	Toluene	50.000	49.242	98.48	70-130
139	trans-1,3-Dichlor	50.000	52.312	104.62	70-130
141	1,1,2-Trichloroet	50.000	50.232	100.47	70-130
142	Tetrachloroethene	50.000	51.400	102.80	70-130
143	2-Hexanone	50.000	48.564	97.13	70-130
144	1,3-Dichloropropa	50.000	50.154	100.31	70-130
146	Dibromochlorometh	50.000	52.044	104.09	70-130
148	1,2-Dibromoethane	50.000	51.519	103.04	70-130
151	1-Bromo-2-Chloroe	50.000	49.482	98.97	70-130
154	Chlorobenzene	50.000	50.547	101.09	70-130
155	Ethyl Benzene	50.000	50.406	100.81	70-130
156	Nonane	50.000	48.458	96.92	70-130
157	1,1,1,2-Tetrachlo	50.000	41.103	82.21	70-130
158	m,p-Xylene	50.000	50.174	100.35	70-130
164	o-Xylene	50.000	49.832	99.66	70-130

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
165 Styrene	50.000	48.631	97.26	70-130
167 Bromoform	50.000	51.908	103.82	70-130
168 Cumene	50.000	49.649	99.30	70-130
169 Cyclohexanone	50.000	46.055	92.11	70-130
175 1,1,2,2-Tetrachlo	50.000	49.903	99.81	70-130
177 Bromobenzene	50.000	51.318	102.64	70-130
178 Propylbenzene	50.000	49.792	99.58	70-130
179 1,2,3-Trichloropr	50.000	48.922	97.84	70-130
181 trans-1,4-Dichlor	50.000	73.151	146.30*	70-130
182 Decane	50.000	47.752	95.50	70-130
183 4-Ethyltoluene	50.000	49.032	98.07	70-130
184 2-Chlorotoluene	50.000	49.506	99.01	70-130
185 1,3,5-Trimethylbe	50.000	50.300	100.60	70-130
188 alpha Methyl Styr	50.000	50.239	100.48	70-130
189 tert-Butylbenzene	50.000	48.255	96.51	70-130
190 1,2,4-Trimethylbe	50.000	50.751	101.50	70-130
192 sec-Butylbenzene	50.000	49.857	99.71	70-130
194 p-Cymene	50.000	49.802	99.60	70-130
195 1,3-Dichlorobenze	50.000	50.491	100.98	70-130
196 1,4-Dichlorobenze	50.000	51.096	102.19	70-130
199 alpha-Chlorotolue	50.000	51.409	102.82	70-130
201 Undecane	50.000	52.224	104.45	70-130
202 Butylbenzene	50.000	49.858	99.72	70-130
204 1,2-Dichlorobenze	50.000	49.900	99.80	70-130
206 1,2-Dibromo-3-chl	50.000	52.035	104.07	70-130
207 Dodecane	50.000	76.665	153.33*	70-130
213 1,2,4-Trichlorobe	58.000	71.254	122.85	70-130
215 Hexachlorobutadie	58.000	72.089	124.29	70-130
216 Naphthalene	5.800	6.790	117.08	60-140
222 1,2,3-Trichlorobe	58.000	76.972	132.71*	70-130

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 104 1,2-Dichloroethan	25.000	24.723	98.89	70-130
$ 134 Toluene-d8	25.000	24.912	99.65	70-130
$ 170 4-Bromofluorobenz	25.000	25.126	100.50	70-130

Data File: /chem/msdp.i/19MAY21.b/p051925.d

Date : 20-MAY-2021 00:33

Client ID: ICV

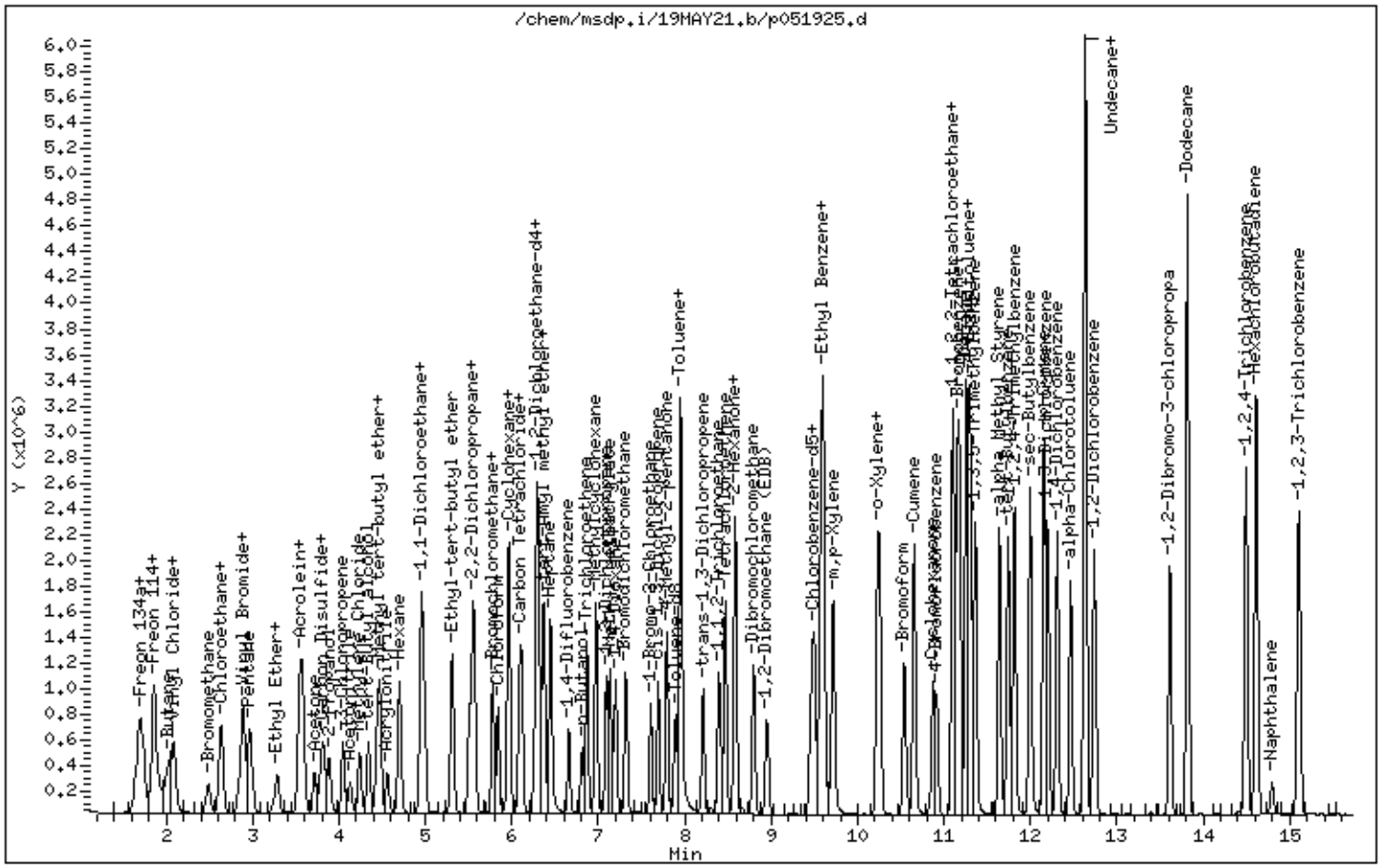
Instrument: msdp.i

Sample Info: 50mL 3018-2016

Operator: gh

Column phase: RTX-624

Column diameter: 0.25



MSD-P MDL Case Narrative

A Method Detection Limit study for TO-15 method was performed on 10/19/20-10/23/20,10/26/20-10/29/20 & 11/02/20,11/05/20,11/06/20.

The MDL was performed at:

- 0.3 ppbv (5.0ppbv->0.3ppbv) for the 0.3ppbv RL compounds; 12mL of #3018-1674
- 0.4 ppbv (5.0ppbv->0.4ppbv) for the 0.4ppbv RL compounds; 16mL of #3018-1674
- 0.8 ppbv (5.0ppbv->0.8ppbv) for 0.8ppbv RL compounds; 32ml of #3018-1674
- 1.0ppbv (5.0ppbv->1.0ppbv) for chloroethane & ethanol;40ml of 3018-1674 & 40ml of 3018-1682

A Method Detection Limit study for select TA TO-15 specials was performed on 11/27/20-11/29/20.

The MDL was performed at:

- 0.4ppbv(5.0ppbv->0.4ppbv) for 1,1,1,2-tetrachloroethane;16ml of #3018-1644

MDL verifications were analyzed on 11/03/20 & 11/10/20:

- P110313: (0.3ppbv & 0.4ppbv RL compounds). 5.0ppbv->0.25ppv; 10ml of #3018-1682.
- P110314: (0.8ppbv RL compounds). 5.0ppbv->0.6ppbv. 24ml of #3018-1682.
- P110315: (0.5 for naph only). 5.0->5.0ppbv; 200ml of #3018-1682.
- P110312: (for 1,1,1,2-PCA only). 5.0ppbv->0.25ppbv. 10ml of #3018-1644
- P111017: (for chloroethane, ethanol & vinyl acetate). 5.0ppbv->0.75ppbv. 30ml of 3018-1682.

Notes:

1. **The MDL values for the following compounds were taken from the MDL blank:**
    a. Dibromomethane (0.07607ppbv)
    b. Acetone (0.48647ppbv)
    c. Iodomethane (0.06508ppbv)
    d. Carbon disulfide (0.1958ppbv)
    e. Decane (0.57314ppbv)
    f. Undecane(0.1836ppbv)
    g. Dodecane (0.71923ppbv)
    h. Naphthalene (0.38524ppbv)

2. The ratio of the mean recovered concentration and the MDL value for naphthalene and dodecane recovered outside of 1-20.
3. The MDL verification for chloroethane and ethanol is less than 2X the mean MDL.

MDL Expires 10/29/21

0.3 mdl.rp

TO15 Quad MDL MSD-P
Standard 3018-1674 (5.0ppbv)
12mL load volume
Spike concentration: 0.3ppbv

Report Date : 28-Oct-2020 16:45

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msdp.i/19OCT20.b/p20q1012a.m
Batch File: /chem/msdp.i/19OCT20.b
Inst ID: msdp.i

ID:	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09
FILENAME:	p101908	p101909	p101910	p102008	p102009	p102010	p102107	p102108	p102109
INJ.DATE:	19-OCT-2020	19-OCT-2020	19-OCT-2020	20-OCT-2020	20-OCT-2020	20-OCT-2020	21-OCT-2020	21-OCT-2020	21-OCT-2020
INJ.TIME:	14:06	14:34	15:01	16:26	16:54	17:21	15:23	15:51	16:19

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
1 Dimethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
2 1,1-Dichloro-1-Fluoroe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
3 Freon 143a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
4 Freon 134a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
5 Propylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
6 Propane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
7 1,1-Difluoroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
8 Freon 12	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
9 Chlorodifluoromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
10 Freon 114	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
11 Freon 14	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
12 Isobutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
13 Freon 142b	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
14 Acetaldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
15 Chloromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
16 Hexafluoropropene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
17 Freon 13	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Reviewer 1 _____ Date: 10/30/20
Reviewer 2 _____ Date: 11/11/20

$\bar{x} = 70.54$
$2\bar{x} = 141.07$
$3\bar{x} = 211.62$
$4\bar{x} = 282.16$

Ratio of the mean recovered concentration and the MDL value is between 1 & 20.

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msdp.i/19OCT20.b/p20q1012a.m
Batch File: /chem/msdp.i/19OCT20.b
Inst ID: msdp.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
18 Butane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
19 Vinyl Chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
20 1,3-Butadiene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
21 Vinyl Fluoride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
22 Ethylene Oxide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
23 Methanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
24 Bromomethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
25 Isobutylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
26 2-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
27 trans-2-butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
28 1-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
29 cis-2-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
30 Chloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
31 Isopentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
32 Vinyl Bromide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
33 Freon 11	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
34 Dichlorofluoromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
35 Pentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
36 1-Pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
37 3-Methyl-1-butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
38 Ethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
39 Ethanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msdp.i/19OCT20.b/p20q1012a.m
Batch File: /chem/msdp.i/19OCT20.b
Inst ID: msdp.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
40 Freon 123a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
41 Freon 123	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
42 Acrolein	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
43 Freon 113	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
44 1,1-Dichloroethene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
45 2-Chloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
46 2,3-Dimethylbutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
47 Acetone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
48 Carbon Disulfide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
49 Iodomethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
50 Isoprene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
51 2-Methyl-2-butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
52 2-Propanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
53 trans-2-Pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
54 3-Chloropropene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
55 Cyclopentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
56 Methyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
57 Acetonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
58 cis-2-Pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
59 Methylene Chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
60 Cyclopentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
61 1,2-Dichloro-1-fluoroe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
62 tert-Butyl alcohol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
63 Methyl tert-butyl ethe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msdp.i/19OCT20.b/p20q1012a.m
Batch File: /chem/msdp.i/19OCT20.b
Inst ID: msdp.i

PPTV RL(PPTV) Sp RL(PPTV) Blank

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
64 trans-1,2-Dichloroethe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
65 2,2-Dimethylbutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
66 Acrylonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
67 Hexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
68 1-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
69 Bromoethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
70 4-Methyl-1-pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
71 1,1-Dichloroethane	217.02	219.07	292.15	253.35	258.29	195.74	292.58	280.15	220.83	247.69	36.00	104.26
72 Isopropyl ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
73 Vinyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
74 Chloroprene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
75 1-Propanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
76 2-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
77 3-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
78 1-Chloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
79 Ethyl-tert-butyl ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
80 2-Methyl-1-pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
81 2,4-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
82 2,3-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
83 tert-Butyl chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
84 2,2-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
85 cis-1,2-Dichloroethene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
86 2-Butanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

no spike in 0.500 300 —

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msdp.i/19OCT20.b/p20q1012a.m
Batch File: /chem/msdp.i/19OCT20.b
Inst ID: msdp.i

	Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL	ppbv	RL (ppbv)	SP RL (ppbv)	Blank
87	Ethyl Acetate	201.00	285.05	246.94	220.66	323.49	229.31	299.26	256.43	286.92	261.01	40.42	117.05		2000	300	—
88	Methyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++				
89	Tetrahydrofuran	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++				
* 90	Bromochloromethane	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	0.00	0.00				
91	trans-2-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++				—
92	Chloroform	242.52	244.52	264.08	247.68	239.93	283.26	261.71	270.85	264.59	257.68	14.79	42.84		500	300	
93	cis-2-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++				
94	Cyclohexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++				
95	Methylcyclopentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++				
96	1,1,1-Trichloroethane	292.64	289.12	314.87	273.07	292.46	311.97	284.37	293.95	306.68	295.46	13.50	39.11		500	300	—
97	Carbon Tetrachloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++				
98	sec-Butyl chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++				
99	1,1-Dichloropropene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++				
100	2,3,4-Trimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++				
101	2,2,4-Trimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++				
102	Benzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++				
103	Isobutanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++				
$ 104	1,2-Dichloroethane-d4	23662.67	23877.71	24079.59	23563.77	24206.96	24182.62	23963.20	24552.71	24218.03	24034.14	305.26	884.02				
105	tert-Amyl methyl ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++				
106	1,2-Dichloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++				
107	Heptane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++				
* 108	1,4-Difluorobenzene	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	0.00	0.00				
109	Butanal	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++				
110	n-Butanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++				

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msdp.i/19OCT20.b/p20q1012a.m
Batch File: /chem/msdp.i/19OCT20.b
Inst ID: msdp.i

ppbv RL(ppbv) SPRL(ppbv) Blank

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL			
111 Trichloroethene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
112 Isobutyl chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
113 Ethyl acrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
114 1,2-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
115 2-Pentanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
116 Methyl Methacrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
117 1,4-Dioxane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
118 Dibromomethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
119 Methacrylonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
120 2-Chloropentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
121 2-Butanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
122 Bromodichloromethane	248.45	319.45	282.47	291.32	274.66	272.30	278.78	242.30	239.06	272.09	25.76	74.60	500	300	—
123 1-Bromopropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
124 Chloroacetonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
125 n-Butylchloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
126 cis-1,3-Dichloropropen	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
127 Methylcyclohexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
128 Thiophene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
129 2-Methylhexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
130 3-Methylhexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
131 4-Methyl-2-pentanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
132 Cyclohexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
$ 133 Benzene-d6	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
$ 134 Toluene-d8	24585.67	24787.41	24622.65	24917.45	24550.68	25002.95	24999.39	25581.69	24685.96	24859.31	321.49	931.02			

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METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msdp.i/19OCT20.b/p20q1012a.m
Batch File: /chem/msdp.i/19OCT20.b
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ppbv RL(pptv) SpRL(pptv) Blank

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
135 1-Methoxy-2-propanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
136 Octane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
137 Toluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
138 1-Heptene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
139 trans-1,3-Dichloroprop	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
140 2,3-Dichloro-1-propene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
141 1,1,2-Trichloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
142 Tetrachloroethene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
143 2-Hexanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
144 1,3-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
145 Butyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
146 Dibromochloromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
147 Bromodichloroethene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
148 1,2-Dibromoethane (EDB	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
149 2-Methylheptane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
150 3-Methylheptane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
151 1-Bromo-2-Chloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
152 Diethyl Ketone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
* 153 Chlorobenzene-d5	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	0.00	0.00
154 Chlorobenzene	274.66	274.06	286.73	307.61	281.73	317.24	284.89	304.85	280.24	290.22	15.66	45.36
155 Ethyl Benzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
156 Nonane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
157 1,1,1,2-Tetrachloroeth	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
158 m,p-Xylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

500 300 —

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METHOD DETECTION LIMIT SUMMARY REPORT

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Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
159 2-Nitropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
160 bis(chloromethyl) Ethe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
161 1-Octene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
162 Epichlorohydrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
163 2-Chloroethyl Vinyl Et	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
164 o-Xylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
165 Styrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
166 2-Heptanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
167 Bromoform	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
168 Cumene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
169 Cyclohexanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
$ 170 4-Bromofluorobenzene	24680.65	24394.98	24458.85	24972.60	24217.99	24821.47	24904.35	25061.39	25327.68	24760.00	354.77	1027.42
171 Vinyl Cyclohexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
172 D-Limonene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
173 Ethyl Methacrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
174 1-Chloro-2-Bromopropan	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
175 1,1,2,2-Tetrachloroeth	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
176 1-Nitropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
177 Bromobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
178 Propylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
179 1,2,3-Trichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
180 Bromodichloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
181 trans-1,4-Dichloro-2-b	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
182 Decane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msdp.i/19OCT20.b/p20q1012a.m
Batch File: /chem/msdp.i/19OCT20.b
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Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
183 4-Ethyltoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
184 2-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
185 1,3,5-Trimethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
186 4-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
187 Diisobutyl Ketone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
188 alpha Methyl Styrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
189 tert-Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
190 1,2,4-Trimethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
191 Pentachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
192 sec-Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
193 bis(2-Chloroethyl) Eth	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
194 p-Cymene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
195 1,3-Dichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
196 1,4-Dichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
197 1,2,3-Trimethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
198 1-Nonene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
199 alpha-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
200 1-Chlorohexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
201 Undecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
202 Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
203 Butyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
204 1,2-Dichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
205 Hexachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msdp.i/19OCT20.b/p20q1012a.m
Batch File: /chem/msdp.i/19OCT20.b
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Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
206 1,2-Dibromo-3-chloropr	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
207 Dodecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
208 1,3,5-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
209 1-Decene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
210 alpha-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
211 1,4-Dichloro-2-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
212 3-Ethyltoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
213 1,2,4-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
214 beta-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
215 Hexachlorobutadiene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
216 Naphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
217 Limonene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
218 Benzaldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
219 Indan	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
220 Indene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
221 Isobutylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
222 1,2,3-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
223 2-Ethyltoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
224 1-Undecene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
225 4-Ethyl-1,2-dimethylbe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
226 1,3-Diethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
227 1,4-Diethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
228 1,2,4,5-tetramethylben	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
229 1-Dodecene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msdp.i/19OCT20.b/p20q1012a.m
Batch File: /chem/msdp.i/19OCT20.b
Inst ID: msdp.i

	Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
	230 Nitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	231 Tridecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	232 2-Methylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	233 1,3,5-Triethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M	234 1,2-Dichloroethene (To	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M	235 Chlorobutane (Total)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M	236 Total Xylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M	237 3 and 4-Ethyltoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	238 Total Volatile Hydroca	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	239 TPH reference to Hexan	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	240 TPH reference to Hepta	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	241 TPH reference to Gasol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	242 TPH reference MineralS	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	243 TPH reference to Stodd	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	244 TVOC reference to Hexa	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	245 TVOC reference to Hept	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	246 TVOC reference to Tolu	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	247 TVOC reference to Tolu	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	248 NMOC reference to Hexa	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	249 NMOC reference to Hept	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	250 NMOC reference to Tolu	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	251 C3 - C4 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	252 C4 - C5 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	253 C5 - C6 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msdp.i/19OCT20.b/p20q1012a.m
Batch File: /chem/msdp.i/19OCT20.b
Inst ID: msdp.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
254 C6 - C7 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
255 C7 - C8 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
256 C8 - C9 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
257 C9 - C10 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
258 C10+ Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
259 C5 - C6 Aliphatic ref	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
260 C6-C8 Aliphatic ref He	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
261 C8-C10 Aliphatic ref D	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
262 C10-C12 Aliphatic ref	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
263 C8-C10 Aromatic	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
264 C8-C10 Aromatic ref 1,	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
265 C10-C12 Aromatic	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
266 C10-C12 Aromatic 1,2,	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
267 C10-C12 Aromatic Naph	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

0.4mdl.rp

TO15 Quad MDL - MSD-P
Standard 3018-1674 (5.0ppbv)
16ml load volume
spike concentration: 0.4ppbv

Report Date : 28-Oct-2020 18:51

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msdp.i/22OCT20.b/p20q1012a.m
Batch File: /chem/msdp.i/22OCT20.b
Inst ID: msdp.i

ID:	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09
FILENAME:	p102207	p102208	p102209	p102307	p102308	p102309	p102606	p102607	p102608
INJ.DATE:	22-OCT-2020	22-OCT-2020	22-OCT-2020	23-OCT-2020	23-OCT-2020	23-OCT-2020	26-OCT-2020	26-OCT-2020	26-OCT-2020
INJ.TIME:	16:40	17:08	17:35	14:33	15:01	15:28	11:55	12:23	12:51

pptv

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL	RL(pptv)	SpRL(pptv)	Blank
1 Dimethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
2 1,1-Dichloro-1-Fluoroe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
3 Freon 143a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
4 Freon 134a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
5 Propylene	436.27	459.07	358.71	365.97	442.84	407.04	328.83	315.33	395.64	389.97	51.11	148.02	2,000	400	—
6 Propane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
7 1,1-Difluoroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
8 Freon 12	368.05	362.51	350.90	422.39	382.44	336.13	389.94	336.87	366.98	368.47	27.28	79.01	500	400	—
9 Chlorodifluoromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
10 Freon 114	402.19	319.34	374.64	343.74	334.54	363.82	297.84	361.33	350.45	349.77	30.80	89.20	500	400	—
11 Freon 14	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
12 Isobutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
13 Freon 142b	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
14 Acetaldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
15 Chloromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
16 Hexafluoropropene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
17 Freon 13	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			

Reviewer 1 _____ Date: 10/30/20
Reviewer 2 _____ Date: 11/11/20

$\bar{x} = 93.579$
$2\bar{x} = 187.16$
$3\bar{x} = 280.74$
$4\bar{x} = 374.32$

The ratio of the mean recovered concentration & the MDL value is b/w 1 & 20.

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msdp.i/22OCT20.b/p20q1012a.m
Batch File: /chem/msdp.i/22OCT20.b
Inst ID: msdp.i

ppbv RL(ppbv) SP RL(ppbv) Blank

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL			
18 Butane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
19 Vinyl Chloride	238.72	286.52	271.11	333.74	362.20	338.00	255.39	295.79	250.02	292.39	43.60	126.26	500	400	—
20 1,3-Butadiene	312.68	378.59	382.05	250.04	280.91	275.23	257.72	279.89	265.49	298.07	49.87	144.41	500	400	—
21 Vinyl Fluoride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
22 Ethylene Oxide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
23 Methanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
24 Bromomethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
25 Isobutylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
26 2-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
27 trans-2-butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
28 1-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
29 cis-2-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
30 Chloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
31 Isopentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
32 Vinyl Bromide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
33 Freon 11	457.24	407.10	435.95	369.75	393.31	349.16	378.67	348.37	383.63	391.46	36.91	106.88	500	400	—
34 Dichlorofluoromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
35 Pentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
36 1-Pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
37 3-Methyl-1-butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
38 Ethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
39 Ethanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msdp.i/22OCT20.b/p20q1012a.m
Batch File: /chem/msdp.i/22OCT20.b
Inst ID: msdp.i

ppbv RL(ppbv) SPRL(ppbv) Blank

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL			
40 Freon 123a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
41 Freon 123	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
42 Acrolein	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
43 Freon 113	426.15	433.79	441.55	364.87	456.53	443.18	409.02	415.07	401.94	421.35	27.52	79.69	500	400	—
44 1,1-Dichloroethene	411.86	277.89	289.34	245.03	323.41	408.62	342.89	361.09	322.12	331.36	56.67	164.11	500	800	—
45 2-Chloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
46 2,3-Dimethylbutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
47 Acetone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
48 Carbon Disulfide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
49 Iodomethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
50 Isoprene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
51 2-Methyl-2-butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
52 2-Propanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
53 trans-2-Pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
54 3-Chloropropene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
55 Cyclopentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
56 Methyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
57 Acetonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
58 cis-2-Pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
59 Methylene Chloride	372.76	312.97	335.71	286.43	401.04	334.94	335.25	305.15	310.05	332.70	35.53	102.89	5000	400	60.72
60 Cyclopentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
61 1,2-Dichloro-1-fluoroe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
62 tert-Butyl alcohol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
63 Methyl tert-butyl ethe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msdp.i/22OCT20.b/p20q1012a.m
Batch File: /chem/msdp.i/22OCT20.b
Inst ID: msdp.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL	pptv RL(pptv)	spRL(pptv)	Blank
64 trans-1,2-Dichloroethe	313.59	405.50	314.93	359.93	369.92	296.05	382.07	269.64	318.20	336.65	44.63	129.25	500	400	—
65 2,2-Dimethylbutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
66 Acrylonitrile	340.64	301.35	399.89	330.73	361.11	300.84	267.26	315.86	273.74	321.27	42.21	122.24	2000	800	—
67 Hexane	284.59	274.85	274.18	282.13	331.11	344.69	341.12	289.67	342.62	307.22	31.56	91.39	500	800	—
68 1-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
69 Bromoethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
70 4-Methyl-1-pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
71 1,1-Dichloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
72 Isopropyl ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
73 Vinyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
74 Chloroprene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
75 1-Propanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
76 2-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
77 3-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
78 1-Chloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
79 Ethyl-tert-butyl ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
80 2-Methyl-1-pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
81 2,4-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
82 2,3-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
83 tert-Butyl chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
84 2,2-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
85 cis-1,2-Dichloroethene	364.42	423.15	261.26	309.14	261.64	232.81	264.66	260.96	254.08	292.46	62.51	181.02	500	400	—
86 2-Butanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msdp.i/22OCT20.b/p20q1012a.m
Batch File: /chem/msdp.i/22OCT20.b
Inst ID: msdp.i

ppbv RL(ppbv) SPRL(ppbv) Blank

	Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL			
87	Ethyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
88	Methyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
89	Tetrahydrofuran	300.42	300.83	294.38	309.82	323.07	338.59	237.00	237.36	280.14	291.29	34.92	101.13	500	800	—
* 90	Bromochloromethane	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	0.00	0.00			
91	trans-2-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
92	Chloroform	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
93	cis-2-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			—
94	Cyclohexane	333.63	372.37	338.12	334.85	386.70	337.43	317.34	337.97	288.47	338.54	28.42	82.29	500	400	
95	Methylcyclopentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
96	1,1,1-Trichloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
97	Carbon Tetrachloride	351.08	365.90	423.66	373.13	342.96	305.44	373.84	266.92	317.12	346.67	45.69	132.32	500	800	—
98	sec-Butyl chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
99	1,1-Dichloropropene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
100	2,3,4-Trimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
101	2,2,4-Trimethylpentane	355.69	333.15	292.38	297.05	306.33	311.83	333.39	309.71	308.79	316.48	20.28	58.72	500	400	—
102	Benzene	398.55	338.76	371.15	328.61	335.51	376.93	394.84	330.43	306.37	353.46	32.62	94.47	500	400	—
103	Isobutanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
$ 104	1,2-Dichloroethane-d4	25538.41	25119.18	24972.96	25310.46	26037.22	25493.94	22898.21	23988.75	24315.92	24852.78	963.98	2791.69			
105	tert-Amyl methyl ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
106	1,2-Dichloroethane	368.16	305.97	383.28	351.01	378.61	339.20	327.18	311.28	361.64	347.37	28.30	81.94	500	800	10.4
107	Heptane	377.00	338.49	321.63	237.39	335.69	324.80	348.25	362.21	369.78	335.03	41.40	119.90	500	500	—
* 108	1,4-Difluorobenzene	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	0.00	0.00			
109	Butanal	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
110	n-Butanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msdp.i/22OCT20.b/p20q1012a.m
Batch File: /chem/msdp.i/22OCT20.b
Inst ID: msdp.i

ppbv RL(ppbv) Sp RL(ppbv) Blank

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL			
111 Trichloroethene	359.98	366.80	369.81	358.75	381.97	420.18	406.91	394.92	420.70	386.67	24.88	72.05	500	400	—
112 Isobutyl chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
113 Ethyl acrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
114 1,2-Dichloropropane	367.27	387.51	438.23	349.97	414.12	402.30	315.92	374.28	442.15	387.97	41.24	119.42	500	400	—
115 2-Pentanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
116 Methyl Methacrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
117 1,4-Dioxane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
118 Dibromomethane	363.07	396.21	400.70	375.65	381.51	404.00	384.97	366.62	423.18	388.43	19.37	56.11	2000	400	76.07
119 Methacrylonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
120 2-Chloropentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
121 2-Butanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
122 Bromodichloromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
123 1-Bromopropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
124 Chloroacetonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
125 n-Butylchloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
126 cis-1,3-Dichloropropen	280.09	346.41	399.61	350.41	326.89	332.36	325.16	374.56	344.71	342.24	33.38	96.67	500	400	—
127 Methylcyclohexane	421.60	402.15	396.00	283.94	356.13	415.49	365.32	368.56	344.41	372.62	42.80	123.96	~000	400	—
128 Thiophene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
129 2-Methylhexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
130 3-Methylhexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
131 4-Methyl-2-pentanone	349.17	342.85	324.09	329.39	448.82	363.24	372.47	304.65	357.29	354.66	41.09	118.99	500	400	—
132 Cyclohexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
$ 133 Benzene-d6	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
$ 134 Toluene-d8	24608.41	24757.16	24060.47	24358.97	24799.49	24544.21	24420.57	24318.45	25304.67	24574.71	356.92	1033.64			

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msdp.i/22OCT20.b/p20q1012a.m
Batch File: /chem/msdp.i/22OCT20.b
Inst ID: msdp.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
135 1-Methoxy-2-propanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
136 Octane	391.51	314.58	349.24	392.86	398.27	317.52	435.75	346.46	343.20	365.49	41.01	118.76
137 Toluene	393.31	369.84	335.47	374.46	391.89	378.56	364.69	361.01	383.40	372.52	17.82	51.60
138 1-Heptene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
139 trans-1,3-Dichloroprop	332.51	308.98	399.68	312.19	350.76	343.89	326.55	353.48	301.43	336.61	30.06	87.07
140 2,3-Dichloro-1-propene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
141 1,1,2-Trichloroethane	359.42	310.37	399.03	326.09	345.12	374.12	325.48	333.64	335.86	345.46	27.67	80.13
142 Tetrachloroethene	368.16	376.49	362.62	383.34	406.92	446.83	425.80	406.87	406.85	398.21	27.87	80.71
143 2-Hexanone	337.34	364.76	359.28	356.16	308.83	350.55	345.40	353.88	353.41	347.73	16.58	48.02
144 1,3-Dichloropropane	379.58	319.29	400.88	326.89	349.89	313.18	370.24	372.04	373.71	356.19	30.43	88.14
145 Butyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
146 Dibromochloromethane	399.15	402.43	371.98	328.44	351.93	404.39	388.88	370.10	331.22	372.06	29.51	85.45
147 Bromodichloroethene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
148 1,2-Dibromoethane (EDB	337.27	380.78	399.90	344.59	425.77	356.23	338.97	345.95	323.51	361.44	33.67	97.51
149 2-Methylheptane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
150 3-Methylheptane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
151 1-Bromo-2-Chloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
152 Diethyl Ketone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
* 153 Chlorobenzene-d5	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	0.00	0.00
154 Chlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
155 Ethyl Benzene	350.04	307.75	414.55	382.37	341.21	376.01	421.98	290.14	387.24	363.48	45.10	130.60
156 Nonane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
157 1,1,1,2-Tetrachloroeth	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
158 m,p-Xylene	381.11	385.02	373.70	279.50	328.49	371.80	390.58	345.71	301.63	350.84	39.78	115.22

ppbv RL(ppbv) SpRL(ppbv) Blank

2000 400 —
500 400 —
500 400 —
— — —
500 400 7.09
500 400 —
2000 400 —
2000 400 —
500 400 —
— — —
500 800 —
— — —
500 400 —
— — 19.29
500 800 ~~46.24~~ GH 11/11/20

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msdp.i/22OCT20.b/p20q1012a.m
Batch File: /chem/msdp.i/22OCT20.b
Inst ID: msdp.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
159 2-Nitropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
160 bis(chloromethyl) Ethe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
161 1-Octene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
162 Epichlorohydrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
163 2-Chloroethyl Vinyl Et	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
164 o-Xylene	360.35	388.65	360.30	402.22	263.00	381.05	393.85	328.05	343.58	357.89	43.09	124.79
165 Styrene	363.22	358.96	355.97	332.09	332.19	352.82	322.68	355.25	294.72	340.88	22.41	64.90
166 2-Heptanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
167 Bromoform	384.81	405.27	406.78	365.38	370.81	375.07	374.03	369.63	351.46	378.14	18.12	52.48
168 Cumene	358.73	319.23	373.24	314.45	325.75	332.23	371.15	349.17	341.49	342.83	21.76	63.02
169 Cyclohexanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
$ 170 4-Bromofluorobenzene	25111.07	24795.31	25807.35	25214.38	25273.17	25304.26	25170.01	25431.80	25249.38	25261.86	269.17	779.51
171 Vinyl Cyclohexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
172 D-Limonene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
173 Ethyl Methacrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
174 1-Chloro-2-Bromopropan	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
175 1,1,2,2-Tetrachloroeth	394.75	382.23	361.14	364.24	388.23	395.06	358.67	355.71	362.71	373.64	16.20	46.93
176 1-Nitropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
177 Bromobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
178 Propylbenzene	358.34	343.23	365.47	348.41	315.89	358.02	401.15	335.02	403.17	358.74	28.65	82.96
179 1,2,3-Trichloropropane	396.36	433.62	361.53	369.60	353.73	433.59	394.94	293.12	372.73	378.80	43.25	125.25
180 Bromodichloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
181 trans-1,4-Dichloro-2-b	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
182 Decane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

PPTV RL(PPTV) SP RL(PPTV) BLANK

164 o-Xylene: 124.79 | 500 | 400 | 8.96
165 Styrene: 64.90 | 500 | 400 | —
166 2-Heptanone: +++++ | | | —
167 Bromoform: 52.48 | 500 | 400 | —
168 Cumene: 63.02 | 500 | 800 | —
175 1,1,2,2-Tetrachloroeth: 46.93 | 500 | 400 | —
178 Propylbenzene: 82.96 | 500 | 400 | —
179 1,2,3-Trichloropropane: 125.25 | 2000 | 400 | —

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msdp.i/22OCT20.b/p20q1012a.m
Batch File: /chem/msdp.i/22OCT20.b
Inst ID: msdp.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL	ppbv	RL(ppbv)	SPRL(ppbv)	Blank
183 4-Ethyltoluene	328.35	323.51	409.88	350.59	394.94	309.53	348.09	311.33	343.67	346.65	35.09	101.62	500		400	—
184 2-Chlorotoluene	367.12	437.45	399.61	324.10	337.68	379.55	388.66	368.97	399.59	378.08	34.12	98.81	2000		400	—
185 1,3,5-Trimethylbenzene	361.70	382.59	305.37	322.46	290.91	333.22	399.63	316.81	339.41	339.12	35.94	104.09	500		400	11.91
186 4-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++				
187 Diisobutyl Ketone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++				
188 alpha Methyl Styrene	340.84	346.95	357.65	316.13	311.83	307.88	324.63	323.57	342.20	330.19	17.32	50.16	1000		400	—
189 tert-Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++				
190 1,2,4-Trimethylbenzene	351.77	366.19	384.29	326.05	339.25	336.74	376.07	351.72	372.74	356.09	19.91	57.67	500		800	40.41
191 Pentachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++				
192 sec-Butylbenzene	326.70	387.27	334.38	303.10	357.00	376.71	377.82	357.98	334.64	350.62	27.86	80.67	2000		400	—
193 bis(2-Chloroethyl) Eth	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++				
194 p-Cymene	329.01	291.99	322.26	303.61	342.86	308.30	363.77	346.10	361.19	329.90	25.52	73.91	2000		800	491
195 1,3-Dichlorobenzene	396.73	395.68	406.80	347.34	383.69	416.48	403.45	401.34	390.46	393.55	19.74	57.16	500		400	6.61
196 1,4-Dichlorobenzene	397.02	396.80	373.82	336.65	380.96	372.10	379.74	387.84	407.73	381.41	20.51	59.40	500		400	10.61
197 1,2,3-Trimethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++				
198 1-Nonene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++				
199 alpha-Chlorotoluene	355.07	348.38	383.67	358.47	379.84	352.56	372.19	361.56	392.68	367.16	15.53	44.97	500		800	—
200 1-Chlorohexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++				
201 Undecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++				
202 Butylbenzene	358.91	342.67	328.13	333.54	305.09	329.53	365.04	339.04	387.15	343.23	24.06	69.69	1000		400	45.09
203 Butyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++				
204 1,2-Dichlorobenzene	405.81	403.04	358.55	356.29	398.25	390.07	392.01	401.55	406.90	390.27	19.48	56.41	500		400	26.05
205 Hexachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++				

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msdp.i/22OCT20.b/p20q1012a.m
Batch File: /chem/msdp.i/22OCT20.b
Inst ID: msdp.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
206 1,2-Dibromo-3-chloropr	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
207 Dodecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
208 1,3,5-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
209 1-Decene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
210 alpha-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
211 1,4-Dichloro-2-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
212 3-Ethyltoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
213 1,2,4-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
214 beta-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
215 Hexachlorobutadiene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
216 Naphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
217 Limonene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
218 Benzaldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
219 Indan	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
220 Indene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
221 Isobutylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
222 1,2,3-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
223 2-Ethyltoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
224 1-Undecene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
225 4-Ethyl-1,2-dimethylbe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
226 1,3-Diethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
227 1,4-Diethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
228 1,2,4,5-tetramethylben	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
229 1-Dodecene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msdp.i/22OCT20.b/p20q1012a.m
Batch File: /chem/msdp.i/22OCT20.b
Inst ID: msdp.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
230 Nitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
231 Tridecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
232 2-Methylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
233 1,3,5-Triethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M 234 1,2-Dichloroethene (To	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M 235 Chlorobutane (Total)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M 236 Total Xylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M 237 3 and 4-Ethyltoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
238 Total Volatile Hydroca	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
239 TPH reference to Hexan	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
240 TPH reference to Hepta	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
241 TPH reference to Gasol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
242 TPH reference MineralS	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
243 TPH reference to Stodd	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
244 TVOC reference to Hexa	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
245 TVOC reference to Hept	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
246 TVOC reference to Tolu	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
247 TVOC reference to Tolu	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
248 NMOC reference to Hexa	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
249 NMOC reference to Hept	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
250 NMOC reference to Tolu	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
251 C3 - C4 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
252 C4 - C5 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
253 C5 - C6 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msdp.i/22OCT20.b/p20q1012a.m
Batch File: /chem/msdp.i/22OCT20.b
Inst ID: msdp.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
254 C6 - C7 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
255 C7 - C8 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
256 C8 - C9 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
257 C9 - C10 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
258 C10+ Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
259 C5 - C6 Aliphatic ref	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
260 C6-C8 Aliphatic ref He	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
261 C8-C10 Aliphatic ref D	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
262 C10-C12 Aliphatic ref	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
263 C8-C10 Aromatic	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
264 C8-C10 Aromatic ref 1,	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
265 C10-C12 Aromatic	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
266 C10-C12 Aromatic 1,2,	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
267 C10-C12 Aromatic Naph	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

0.8mdl.rp

TO1S Quad MDL MSD-P
standard 3018-16674 (5.0ppbv)
32mL load volume
Spike concentration: 0.8 ppbv
Naph @ 0.08ppbv

Report Date : 30-Oct-2020 15:35

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msdp.i/27OCT20.b/p20q1012a.m
Batch File: /chem/msdp.i/27OCT20.b
Inst ID: msdp.i

ID:	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09
FILENAME:	p102713	p102714	p102715	p102812	p102813	p102814	p102913	p102914	p102915
INJ.DATE:	27-OCT-2020	27-OCT-2020	27-OCT-2020	28-OCT-2020	28-OCT-2020	28-OCT-2020	29-OCT-2020	29-OCT-2020	29-OCT-2020
INJ.TIME:	16:13	16:41	17:09	16:20	16:48	17:16	16:09	16:37	17:05

ppbv

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL	RL(pptv)	SPRL(pptv)	Blank
1 Dimethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
2 1,1-Dichloro-1-Fluoroe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
3 Freon 143a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
4 Freon 134a	782.35	724.88	886.81	836.87	782.13	915.12	890.85	977.30	953.51	861.09	85.21	246.77	2000	800	-
5 Propylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
6 Propane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
7 1,1-Difluoroethane	828.20	1034.35	526.55	766.58	681.54	895.20	701.39	694.22	904.48	781.39	151.42	438.51	2000	800	-
8 Freon 12	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
9 Chlorodifluoromethane	854.60	805.17	642.55	827.65	687.63	812.52	1041.61	928.38	684.55	809.41	126.85	367.37	2000	800	-
10 Freon 114	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
11 Freon 14	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
12 Isobutane	719.04	711.25	707.49	729.52	689.89	671.33	801.41	778.78	804.87	734.84	48.61	140.77	2000	800	—
13 Freon 142b	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
14 Acetaldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
15 Chloromethane	882.85	931.18	918.86	751.25	728.44	745.41	1061.42	972.38	1001.77	888.17	121.18	350.93	5000	800	—
16 Hexafluoropropene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
17 Freon 13	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			

Reviewer 1 _____ Date: 10/30/20
Reviewer 2 _____ Date: 11/11/20

rm 11/03/20

$\bar{X}$ = ~~253.78~~ ~~254.04~~ 243.95
$2\bar{x}$ = 507.56 508.08 487.90
$3\bar{x}$ = 761.34 762.12 731.85
$4\bar{x}$ = ~~1,015.12~~ ~~1,016.16~~ 975.80

The ratio of the mean recovered concentration to the MDL value is b/w 1-20 for all compounds except dodecane and Naphthalene.

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

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Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL	PPTV RL(PPTV)	SP RL(PPTV)	Blank
18 Butane	898.47	689.60	606.50	714.19	994.52	733.80	751.23	938.98	1233.61	840.10	194.99	564.68	2000	800	—
19 Vinyl Chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
20 1,3-Butadiene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
21 Vinyl Fluoride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
22 Ethylene Oxide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
23 Methanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
24 Bromomethane	834.50	796.28	852.48	898.11	761.37	815.39	846.32	919.26	1012.42	859.57	74.89	216.88	5000	800	—
25 Isobutylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
26 2-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
27 trans-2-butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
28 1-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
29 cis-2-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
30 Chloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
31 Isopentane	655.87	662.86	650.61	734.81	705.95	701.65	727.87	655.13	699.75	688.28	32.73	94.78	2000	2000	—
32 Vinyl Bromide	737.71	813.81	758.98	757.93	700.24	661.88	709.79	675.94	746.89	729.24	47.22	136.75	2000	800	—
33 Freon 11	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
34 Dichlorofluoromethane	778.66	732.59	744.21	814.55	761.68	702.11	748.89	790.16	735.31	756.46	33.93	98.25	2000	800	—
35 Pentane	639.53	701.46	729.10	649.67	678.40	698.89	670.06	598.35	821.94	687.49	63.44	183.72	2000	800	—
36 1-Pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
37 3-Methyl-1-butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
38 Ethyl Ether	564.60	615.24	558.00	800.06	654.88	660.41	744.34	741.00	309.41	627.55	145.03	420.00	2000	800	—
* ~~39 Ethanol~~	~~569.54~~	~~328.32~~	~~497.33~~	~~641.05~~	~~1160.40~~	~~721.07~~	~~599.91~~	~~403.71~~	~~443.84~~	~~596.13~~	~~244.55~~	~~708.23~~	~~2000~~	~~1000~~ 500	— MS 11/10/20

* Ethanol MDL included in 10ppbv spike

US32TAR1
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Inst ID: msdp.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
40 Freon 123a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
41 Freon 123	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
42 Acrolein	699.46	712.62	502.97	856.57	794.32	807.25	756.02	655.40	696.07	720.08	103.32	299.22
43 Freon 113	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
44 1,1-Dichloroethene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
45 2-Chloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
46 2,3-Dimethylbutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
47 Acetone	848.22	800.39	727.29	836.77	676.13	837.53	907.31	713.75	735.23	786.96	76.92	222.76
48 Carbon Disulfide	808.80	840.34	749.99	777.80	747.78	684.04	761.31	799.80	776.40	771.81	44.40	128.59
49 Iodomethane	457.35	451.01	440.43	437.13	459.33	452.25	478.66	430.79	399.77	445.19	22.11	64.02
50 Isoprene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
51 2-Methyl-2-butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
52 2-Propanol	666.68	704.84	695.32	785.79	731.69	795.25	734.79	809.37	796.47	746.69	51.78	149.96
53 trans-2-Pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
54 3-Chloropropene	852.23	979.94	823.74	485.40	620.09	771.94	735.72	607.16	820.37	744.06	150.57	436.06
55 Cyclopentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
56 Methyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
57 Acetonitrile	731.86	716.27	660.84	656.65	700.17	610.38	801.87	579.31	812.61	696.66	79.25	229.52
58 cis-2-Pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
59 Methylene Chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
60 Cyclopentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
61 1,2-Dichloro-1-fluoroe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
62 tert-Butyl alcohol	740.42	784.24	698.11	749.56	863.98	769.73	738.29	787.50	724.28	761.79	47.82	138.48
63 Methyl tert-butyl ethe	732.79	675.63	767.02	757.40	730.51	793.25	764.89	693.44	732.19	738.57	37.05	107.30

ppbv RL(ppbv) SpRL(ppbv) Blank

42 2000 2000 —
47 5000 500 497.4
48 1000 800 195.8
49 2000 800 45 45 ms 11/03/20
52 2000 800 137.2
54 2000 800 —
57 2000 800 —
62 2000 800 —
63 2000 800 —

US32TAR1
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Inst ID: msdp.i

ppbv RL(ppbv) SpRL(ppbv) Blank

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL			
64 trans-1,2-Dichloroethe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
65 2,2-Dimethylbutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
66 Acrylonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
67 Hexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
68 1-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
69 Bromoethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
70 4-Methyl-1-pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
71 1,1-Dichloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
72 Isopropyl ether	682.23	642.03	666.75	695.31	656.63	696.37	661.77	656.86	696.19	672.68	20.37	58.98	2000	800	—
73 Vinyl Acetate	379.16	510.38	679.89	456.28	594.69	817.23	865.96	319.67	628.92	583.57	186.68	540.62	2000	800	—
74 Chloroprene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
75 1-Propanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
76 2-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
77 3-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
78 1-Chloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
79 Ethyl-tert-butyl ether	732.15	735.05	698.72	703.42	678.14	735.97	721.12	633.77	751.04	709.93	36.40	105.41	2000	800	—
80 2-Methyl-1-pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
81 2,4-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
82 2,3-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
83 tert-Butyl chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
84 2,2-Dichloropropane	856.50	766.31	748.03	737.62	810.23	833.08	893.06	935.10	891.13	830.12	69.98	202.65	2000	800	—
85 cis-1,2-Dichloroethene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
86 2-Butanone	494.27	680.84	630.20	636.77	695.03	636.19	496.57	833.87	704.79	645.39	104.97	303.98	2000	800	—

US32TAR1
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ppbv RL(ppbv) SpRL(ppbv) Blank

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL			
87 Ethyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
88 Methyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
89 Tetrahydrofuran	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
* 90 Bromochloromethane	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	0.00	0.00			
91 trans-2-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
92 Chloroform	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
93 cis-2-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
94 Cyclohexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
95 Methylcyclopentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
96 1,1,1-Trichloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
97 Carbon Tetrachloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
98 sec-Butyl chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
99 1,1-Dichloropropene	691.47	788.20	695.94	788.42	758.83	619.78	822.02	955.67	776.77	766.35	94.95	274.96	2000	800	—
100 2,3,4-Trimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
101 2,2,4-Trimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
102 Benzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
103 Isobutanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
$ 104 1,2-Dichloroethane-d4	26542.98	25336.38	25035.81	26773.65	27060.55	27089.31	28110.69	28004.75	27657.60	26845.75	1081.60	3132.31			
105 tert-Amyl methyl ether	672.84	754.03	800.25	749.08	911.69	801.21	750.86	870.59	838.98	794.39	72.44	209.80	2000	2000	—
106 1,2-Dichloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
107 Heptane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
* 108 1,4-Difluorobenzene	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	0.00	0.00			
109 Butanal	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
110 n-Butanol	818.67	808.84	787.27	836.16	856.92	901.90	852.85	807.79	844.38	834.98	34.16	98.92	2000	800	68.07

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ppbv RL(ppbv) SP RL(ppbv) Blank

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL			
111 Trichloroethene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
112 Isobutyl chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
113 Ethyl acrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
114 1,2-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
115 2-Pentanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
116 Methyl Methacrylate	757.87	628.93	710.27	777.16	558.68	667.00	648.50	874.39	750.66	708.16	93.91	271.96	2000	800	—
117 1,4-Dioxane	765.97	849.41	952.34	642.09	797.15	771.61	800.61	642.99	673.24	766.16	101.84	294.93	2000	800	—
118 Dibromomethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
119 Methacrylonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
120 2-Chloropentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
121 2-Butanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
122 Bromodichloromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
123 1-Bromopropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
124 Chloroacetonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
125 n-Butylchloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
126 cis-1,3-Dichloropropen	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
127 Methylcyclohexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
128 Thiophene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
129 2-Methylhexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
130 3-Methylhexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
131 4-Methyl-2-pentanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
132 Cyclohexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
$ 133 Benzene-d6	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
$ 134 Toluene-d8	24078.61	24335.63	24036.51	23516.55	23802.94	23773.37	23590.02	23613.19	24343.15	23898.89	313.75	908.62			

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msdp.i/27OCT20.b/p20q1012a.m
Batch File: /chem/msdp.i/27OCT20.b
Inst ID: msdp.i

ppbv RL(ppbv) SPRL(ppbv) Blank

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL			
135 1-Methoxy-2-propanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
136 Octane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
137 Toluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
138 1-Heptene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
139 trans-1,3-Dichloroprop	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
140 2,3-Dichloro-1-propene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
141 1,1,2-Trichloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
142 Tetrachloroethene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
143 2-Hexanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
144 1,3-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
145 Butyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
146 Dibromochloromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
147 Bromodichloroethene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
148 1,2-Dibromoethane (EDB	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
149 2-Methylheptane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
150 3-Methylheptane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
151 1-Bromo-2-Chloroethane	657.71	773.71	721.48	656.34	733.70	677.29	720.22	717.61	692.34	705.60	38.30	110.92	2000	800	—
152 Diethyl Ketone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
* 153 Chlorobenzene-d5	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	0.00	0.00			
154 Chlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
155 Ethyl Benzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
156 Nonane	649.99	615.89	662.19	649.94	671.72	581.89	713.24	665.35	674.53	653.86	37.29	108.00	2000	800	46.24
157 1,1,1,2-Tetrachloroeth	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
158 m,p-Xylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			

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METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msdp.i/27OCT20.b/p20q1012a.m
Batch File: /chem/msdp.i/27OCT20.b
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ppbv

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL	RL(ppbv)	SPRL(ppbv)	Blank
159 2-Nitropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
160 bis(chloromethyl) Ethe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
161 1-Octene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
162 Epichlorohydrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
163 2-Chloroethyl Vinyl Et	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
164 o-Xylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
165 Styrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
166 2-Heptanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
167 Bromoform	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
168 Cumene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
169 Cyclohexanone	848.24	767.43	798.03	808.84	844.16	792.72	752.74	812.64	890.64	812.83	42.72	123.73	2000	800	—
$ 170 4-Bromofluorobenzene	26008.20	26019.99	26097.96	26091.99	26069.47	25566.33	25848.37	26700.26	25817.70	26024.47	306.72	888.26			
171 Vinyl Cyclohexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
172 D-Limonene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
173 Ethyl Methacrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
174 1-Chloro-2-Bromopropan	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
175 1,1,2,2-Tetrachloroeth	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
176 1-Nitropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
177 Bromobenzene	806.33	851.30	818.09	815.14	762.80	818.62	765.09	884.18	735.55	806.35	46.17	133.72	2000	800	—
178 Propylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
179 1,2,3-Trichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
180 Bromodichloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
181 trans-1,4-Dichloro-2-b	696.47	780.58	811.00	821.84	756.32	754.81	776.59	738.59	930.39	785.18	66.13	191.51	2000	800	
182 Decane	665.03	678.56	590.12	632.67	602.85	585.50	637.99	632.02	612.73	626.39	31.92	92.43	2000	800	(573.14)

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METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msdp.i/27OCT20.b/p20q1012a.m
Batch File: /chem/msdp.i/27OCT20.b
Inst ID: msdp.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL	RL(ppbv)	SPRL(ppbv)	Blank
183 4-Ethyltoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
184 2-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
185 1,3,5-Trimethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
186 4-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
187 Diisobutyl Ketone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
188 alpha Methyl Styrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
189 tert-Butylbenzene	777.35	746.78	784.01	732.15	775.27	697.75	724.53	721.59	728.65	743.12	29.77	86.20	2000	300	32.20
190 1,2,4-Trimethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
191 Pentachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
192 sec-Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
193 bis(2-Chloroethyl) Eth	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
194 p-Cymene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
195 1,3-Dichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
196 1,4-Dichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
197 1,2,3-Trimethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
198 1-Nonene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
199 alpha-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
200 1-Chlorohexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
201 Undecane	543.26	526.15	549.31	522.63	565.63	525.07	573.32	541.49	521.46	540.92	19.10	55.32	2000	800	183.60
202 Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
203 Butyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
204 1,2-Dichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
205 Hexachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			

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METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msdp.i/27OCT20.b/p20q1012a.m
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ppbv

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL	RL(ppbv)	SpRL(ppbv)	Blank
206 1,2-Dibromo-3-chloropr	776.96	766.33	816.70	748.77	742.97	795.65	764.63	775.37	776.17	773.73	22.51	65.19	2000	800	—
207 Dodecane	669.70	747.33	708.32	688.30	749.03	735.59	633.57	674.71	655.94	695.83	41.64	120.59	2000	800	719.23
208 1,3,5-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
209 1-Decene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
210 alpha-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
211 1,4-Dichloro-2-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
212 3-Ethyltoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
213 1,2,4-Trichlorobenzene	1024.36	1024.97	1115.91	982.45	1070.32	954.95	934.25	1004.44	1088.59	1022.25	60.90	176.36	2000	2000	65.11
214 beta-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
215 Hexachlorobutadiene	1087.27	1049.68	989.99	1016.98	1194.77	1118.77	1104.49	1141.26	1112.79	1090.67	63.37	183.51	2000	2000	38.6
216 Naphthalene	96.82	117.03	115.70	96.98	95.10	96.49	94.23	93.62	93.19	99.91	9.44	27.33	1000	800	385.
217 Limonene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
218 Benzaldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
219 Indan	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
220 Indene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
221 Isobutylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
222 1,2,3-Trichlorobenzene	1001.11	1201.96	1141.79	1103.14	1149.53	1158.53	1177.05	1141.75	1245.42	1146.70	68.02	196.98	2000	800	129.49
223 2-Ethyltoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
224 1-Undecene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
225 4-Ethyl-1,2-dimethylbe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
226 1,3-Diethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
227 1,4-Diethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
228 1,2,4,5-tetramethylben	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
229 1-Dodecene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			

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METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msdp.i/27OCT20.b/p20q1012a.m
Batch File: /chem/msdp.i/27OCT20.b
Inst ID: msdp.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
230 Nitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
231 Tridecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
232 2-Methylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
233 1,3,5-Triethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M 234 1,2-Dichloroethene (To	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M 235 Chlorobutane (Total)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M 236 Total Xylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M 237 3 and 4-Ethyltoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
238 Total Volatile Hydroca	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
239 TPH reference to Hexan	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
240 TPH reference to Hepta	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
241 TPH reference to Gasol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
242 TPH reference MineralS	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
243 TPH reference to Stodd	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
244 TVOC reference to Hexa	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
245 TVOC reference to Hept	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
246 TVOC reference to Tolu	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
247 TVOC reference to Tolu	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
248 NMOC reference to Hexa	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
249 NMOC reference to Hept	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
250 NMOC reference to Tolu	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
251 C3 - C4 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
252 C4 - C5 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
253 C5 - C6 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msdp.i/27OCT20.b/p20q1012a.m
Batch File: /chem/msdp.i/27OCT20.b
Inst ID: msdp.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
254 C6 - C7 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
255 C7 - C8 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
256 C8 - C9 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
257 C9 - C10 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
258 C10+ Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
259 C5 - C6 Aliphatic ref	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
260 C6-C8 Aliphatic ref He	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
261 C8-C10 Aliphatic ref D	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
262 C10-C12 Aliphatic ref	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
263 C8-C10 Aromatic	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
264 C8-C10 Aromatic ref 1,	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
265 C10-C12 Aromatic	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
266 C10-C12 Aromatic 1,2,	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
267 C10-C12 Aromatic Naph	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

1.0mdl.rp

Chloroethane & Ethanol only

TO15 Quad MDL MSD-P
Standards: 3018-1674 & 3018-1682
40mL load volume
Spike concentration: 1.0ppbv (5.0ppbv)

Report Date : 12-NOV-2020 16:23 Page 1

US32TAR1

SPIKED METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msdp.i/06NOV20.b/p20q1012a.m
Batch File: /chem/msdp.i/06NOV20.b
Instrument Names: msdp.i
Student T 2.896 for 9 Replicates with 99% Confidence

Spiked ID(s) _____ Spiked Vol(s) _____

ID:	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09
FILENAME:	p110206	p110207	p110208	p110513	p110514	p110515	p110609	p110610	p110611
INJ.DATE:	02-NOV-2020	02-NOV-2020	02-NOV-2020	05-NOV-2020	05-NOV-2020	05-NOV-2020	06-NOV-2020	06-NOV-2020	06-NOV-2020
INJ.TIME:	14:13	14:41	15:09	20:32	21:00	21:28	14:11	14:39	15:06

ppbv RL Blan

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	SPK AMT	RL	RATIO	MDL
1 Chloroethane	949.12	1022.70	806.30	825.92	1224.10	964.54	1180.50	905.28	1303.10	1020.17	177.54	0.000000	2.00	1.98	514.16
2 Ethanol	794.28	1176.80	541.34	587.68	928.34	802.22	478.16	696.21	766.27	752.37	213.76	0.000000	2.00	1.22	619.05
* 3 Bromochloromethane	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	0.000000	0.000000	0.400	1.00	0.000000
$ 4 1,2-Dichloroethane-d4	27635.00	26462.00	27301.00	26650.00	26719.00	27118.00	27404.00	26779.00	27199.00	27029.67	394.08	0.000000	0.400	23.68	1141.26
* 5 1,4-Difluorobenzene	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	0.000000	0.000000	0.400	1.00	0.000000
$ 6 Toluene-d8	24478.00	23898.00	24046.00	24964.00	25032.00	24902.00	24547.00	25074.00	25358.00	24699.89	492.08	0.000000	0.400	17.33	1425.08
* 7 Chlorobenzene-d5	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	0.000000	0.000000	0.400	1.00	0.000000
$ 8 4-Bromofluorobenzene	26376.00	26376.00	25359.00	23859.00	24195.00	23898.00	24336.00	24526.00	24254.00	24797.67	995.84	0.000000	0.400	8.60	2883.95

Reviewer 1 _____ Date: 11/12/20
Reviewer 2 _____ Date: 11/12/20

The ratio of the mean recovered concentration & the MDL is b/w 1-20.

$\bar{x} = 566.60$

$2\bar{x} = 1133.21$

1112pca_mdl.rp

T015 Quad MDL MSD-P
Standard 3018-1644 (5.0ppbv)
1,1,1,2-Tetrachloroethane only
16mL load volume
Spike Concentration 0.4ppbv

Report Date : 10-NOV-2020 15:36

US32TAR1

SPIKED METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msdp.i/29OCT20.b/p20q1012a.m
Batch File: /chem/msdp.i/29OCT20.b
Instrument Names: msdp.i
Student T 2.896 for 9 Replicates with 99% Confidence

Spiked ID(s) _____ Spiked Vol(s) _____

ID:	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09
FILENAME:	p102710	p102711	p102712	p102809	p102810	p102811	p102910	p102911	p102912
INJ.DATE:	27-OCT-2020	27-OCT-2020	27-OCT-2020	28-OCT-2020	28-OCT-2020	28-OCT-2020	29-OCT-2020	29-OCT-2020	29-OCT-2020
INJ.TIME:	14:49	15:17	15:45	14:57	15:25	15:53	14:46	15:14	15:42

RTV RL Blank

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	SPK AMT	RL	RATIO	MDL
* 1 Bromochloromethane	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	0.000000	0.000000	2.00	1.00	0.000000
$ 2 1,2-Dichloroethane-d4	24573.00	24807.00	24616.00	25011.00	26208.00	26456.00	27161.00	26313.00	27385.00	25836.67	1102.74	0.000000	2.00	8.09	3193.55
* 3 1,4-Difluorobenzene	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	0.000000	0.000000	2.00	1.00	0.000000
$ 4 Toluene-d8	24075.00	24304.00	24661.00	24305.00	23479.00	23880.00	24032.00	24417.00	23597.00	24083.33	385.46	0.000000	2.00	21.57	1116.30
* 5 Chlorobenzene-d5	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	0.000000	0.000000	2.00	1.00	0.000000
6 1,1,1,2-Tetrachloroethane	379.06	447.57	427.78	423.52	384.11	446.89	435.94	349.79	387.48	409.13	34.82	0.000000	2.00	4.06	100.83
$ 7 4-Bromofluorobenzene	25482.00	25724.00	25783.00	26216.00	25959.00	25799.00	26068.00	25824.00	25833.00	25854.22	209.93	0.000000	2.00	42.53	607.95

80

Reviewer 1 _____ Date: 11/10/20
Reviewer 2 _____ Date: 11/12/20

The ratio of the mean recovered concentration & the MDL is b/w 1-20.

$\bar{x} = 100.83$

$2\bar{x} = 201.66$

$3\bar{x} = 302.49$

$4\bar{x} = 403.32$

blank_mdl.rp

MSD-P Blank MDL
can #s 33665 & 497

Report Date : 03-NOV-2020 17:44 Page 1

US32TAR1

SPIKED METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msdp.i/29OCT20.b/p20q1012a.m
Batch File: /chem/msdp.i/29OCT20.b
Instrument Names: msdp.i
Student T 2.896 for 9 Replicates with 99% Confidence

	Spiked ID(s)	Spiked Vol(s)

ID:	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09
FILENAME:	p102707EPALB	p102708EPALB	p102709EPALB	p102806EPALB	p102807EPALB	p102808EPALB	p102907EPALB	p102908EPALB	p102909EPALB
INJ.DATE:	27-OCT-2020	27-OCT-2020	27-OCT-2020	28-OCT-2020	28-OCT-2020	28-OCT-2020	29-OCT-2020	29-OCT-2020	29-OCT-2020
INJ.TIME:	13:05	13:52	14:22	12:51	14:00	14:29	12:51	13:49	14:18

	Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	SPK AMT	RL	RATIO	MDL
1	Freon 134a	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	2.00	1.00	0.000000
2	Propylene	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	2.00	1.00	0.000000
3	1,1-Difluoroethane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	2.00	1.00	0.000000
4	Freon 12	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000
5	Chlorodifluoromethane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000
6	Freon 114	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000
7	Isobutane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	2.00	1.00	0.000000
8	Chloromethane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000
9	Butane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000
10	Vinyl Chloride	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000
11	1,3-Butadiene	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000
12	Bromomethane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000
13	Chloroethane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000
14	Isopentane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000
15	Vinyl Bromide	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000
16	Freon 11	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000
17	Dichlorofluoromethane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	2.00	1.00	0.000000
18	Pentane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000
19	Ethanol	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000
20	Ethyl Ether	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000
21	Acrolein	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000

Reviewer 1 _____ Date: 11/03/20

Reviewer 2 _____ Date: 11/11/20

US32TAR1

SPIKED METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msdp.i/29OCT20.b/p20q1012a.m

Batch File: /chem/msdp.i/29OCT20.b

Instrument Names: msdp.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	SPK AMT	RL	RATIO	MDL	
22 Freon 113	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000	
23 1,1-Dichloroethene	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000	
24 Acetone 497.49	331.00	354.71	246.63	201.44	376.96	233.77	173.33	355.39	249.83	280.34	74.98	0.000000	0.400	1.29	217.15	
25 Iodomethane 65.08	65.08	27.98	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	10.34	22.52	0.000000	2.00	0.159	65.21	Ratio 1 t
26 Carbon Disulfide 195.78	151.31	148.10	133.40	158.96	153.20	166.49	113.13	146.20	117.68	143.16	18.17	0.000000	0.400	2.72	52.62	
27 2-Propanol 137.20	69.67	88.64	14.84	42.56	56.13	41.38	31.21	93.32	82.38	57.79	27.42	0.000000	0.400	0.728	79.41	Ratio 1 t
28 3-Chloropropene	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000	
29 Acetonitrile	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000	
30 Methylene Chloride 60.72	0.000000	0.000000	0.000000	60.72	0.000000	0.000000	0.000000	0.000000	0.000000	6.75	20.24	0.000000	0.400	0.115	58.61	Rat
31 tert-Butyl alcohol	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000	
32 Methyl tert-butyl ether	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000	
33 trans-1,2-Dichloroethene	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000	
34 Acrylonitrile	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000	
35 Hexane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000	
36 Isopropyl ether	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	2.00	1.00	0.000000	
37 1,1-Dichloroethane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000	
38 Vinyl Acetate	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000	
39 Ethyl-tert-butyl ether	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	2.00	1.00	0.000000	
40 2,2-Dichloropropane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	2.00	1.00	0.000000	
41 cis-1,2-Dichloroethene	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000	
42 2-Butanone	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000	
43 Ethyl Acetate	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000	
* 44 Bromochloromethane	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	0.000000	0.000000	0.400	1.00	0.000000	
45 Tetrahydrofuran	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000	
46 Chloroform	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000	
47 Cyclohexane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000	
48 1,1,1-Trichloroethane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000	
49 Carbon Tetrachloride	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000	

Reviewer 1 _____ Date:_____

Reviewer 2 _____ Date:_____

US32TAR1

SPIKED METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msdp.i/29OCT20.b/p20q1012a.m
Batch File: /chem/msdp.i/29OCT20.b
Instrument Names: msdp.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	SPK AMT	RL	RATIO	MDL	
50 1,1-Dichloropropene	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	2.00	1.00	0.000000	
51 2,2,4-Trimethylpentane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000	
52 Benzene	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000	
$ 53 1,2-Dichloroethane-d4	25449.00	26875.00	26033.00	28600.00	27056.00	27244.00	27238.00	27582.00	27588.00	27073.89	913.17	0.000000	0.400	10.24	2644.53	
54 tert-Amyl methyl ether	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	2.00	1.00	0.000000	
55 1,2-Dichloroethane 10.40	0.000000	0.000000	0.000000	0.000000	10.40	0.000000	0.000000	0.000000	0.000000	1.16	3.47	0.000000	0.400	0.115	10.04	Rati
56 Heptane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000	
* 57 1,4-Difluorobenzene	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	0.000000	0.000000	0.400	1.00	0.000000	
58 n-Butanol 68.07	52.43	0.000000	39.24	68.07	0.000000	0.000000	38.26	54.00	0.000000	28.00	27.94	0.000000	0.400	0.346	80.92	Rati
59 Trichloroethene	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000	
60 Methylcyclohexane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	2.00	1.00	0.000000	
61 1,2-Dichloropropane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000	
62 Methyl Methacrylate	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000	
63 1,4-Dioxane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000	
64 Dibromomethane 76.07	0.000000	0.000000	50.85	30.83	0.000000	0.000000	76.07	28.33	20.27	22.93	26.94	0.000000	0.400	0.294	78.01	Ratio 1 t
65 Bromodichloromethane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000	
66 1-Bromo-2-Chloroethane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	2.00	1.00	0.000000	
67 cis-1,3-Dichloropropene	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000	
68 4-Methyl-2-pentanone	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000	
$ 69 Toluene-d8	24332.00	24851.00	24110.00	24640.00	24909.00	24437.00	24430.00	24025.00	23792.00	24391.78	374.29	0.000000	0.400	22.50	1083.95	
70 Octane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000	
71 Toluene	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000	
72 trans-1,3-Dichloropropene	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000	
73 1,1,2-Trichloroethane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000	
74 Tetrachloroethene 7.09	7.09	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.788	2.36	0.000000	0.400	0.115	6.85	Ratio 1 t
75 1,3-Dichloropropane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	2.00	1.00	0.000000	
76 2-Hexanone	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000	
77 Dibromochloromethane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000	
78 1,2-Dibromoethane (EDB)	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000	
* 79 Chlorobenzene-d5	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	0.000000	0.000000	0.400	1.00	0.000000	

80	Chlorobenzene	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000			
81	Ethyl Benzene	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000			
82	Nonane 46.24	0.000000	0.000000	0.000000	46.24	0.000000	0.000000	0.000000	0.000000	0.000000	5.14	15.41	0.000000	0.400	0.115	44.64	Ratio 1 t	
83	1,1,1,2-Tetrachloroethane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000			
84	m,p-Xylene 19.29	0.000000	0.000000	0.000000	19.29	0.000000	0.000000	0.000000	0.000000	0.000000	2.14	6.43	0.000000	0.400	0.115	18.62	Ratio 1 t	
85	o-Xylene 8.96	0.000000	0.000000	0.000000	8.96	0.000000	0.000000	0.000000	0.000000	0.000000	0.996	2.99	0.000000	0.400	0.115	8.65	Ratio 1 t	
86	Styrene	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000			
87	Bromoform	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000			
88	Cumene	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000			
89	Cyclohexanone	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000			
$ 90	4-Bromofluorobenzene	26249.00	25487.00	25699.00	25494.00	25682.00	25924.00	26381.00	25900.00	26007.00	25869.22	312.25	0.000000	5.00	1.00	0.000000		
91	1,1,2,2-Tetrachloroethane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	28.61	904.27			
92	Bromobenzene	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000			
93	Propylbenzene	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	2.00	1.00	0.000000			
94	1,2,3-Trichloropropane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000			
95	trans-1,4-Dichloro-2-butene	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	2.00	1.00	0.000000			
96	4-Ethyltoluene	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000			
97	Decane 573.14	491.02	405.05	339.69	573.14	403.12	0.000000	563.04	396.70	325.06	388.54	170.65	0.000000	0.400	0.786	494.19	Rati	
98	2-Chlorotoluene	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000			
99	1,3,5-Trimethylbenzene 11.91	7.14	11.91	0.000000	0.000000	0.000000	0.000000	10.79	0.000000	0.000000	3.32	5.13	0.000000	0.400	0.223	14.85	Rati	
100	alpha Methyl Styrene	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000			
101	tert-Butylbenzene 32.20	32.20	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	3.58	10.73	0.000000	0.400	0.115	31.09	Rati	
102	1,2,4-Trimethylbenzene 40.41	0.000000	11.59	3.17	40.41	0.000000	0.000000	0.000000	20.21	0.000000	8.38	13.94	0.000000	0.400	0.207	40.37	Ratio 1 t	
103	sec-Butylbenzene	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000			
104	p-Cymene 4.91	4.91	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.545	1.64	0.000000	0.400	0.115	4.74	Ratio 1 t	
105	1,3-Dichlorobenzene 6.61	0.000000	6.61	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.735	2.20	0.000000	0.400	0.115	6.38	Ratio 1 t	
106	1,4-Dichlorobenzene 10.61	0.000000	0.000000	0.000000	10.61	0.000000	0.000000	0.000000	0.000000	0.000000	1.18	3.54	0.000000	0.400	0.115	10.25	Ratio 1 t	
107	alpha-Chlorotoluene	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000			
108	Undecane 183.60	0.000000	0.000000	106.80	130.26	91.15	137.17	174.19	146.33	183.60	107.72	67.57	0.000000	0.400	0.551	195.68	Ratio 1 t	
109	Butylbenzene 45.09	26.38	12.90	0.000000	45.09	0.000000	0.000000	14.12	0.000000	0.000000	10.94	15.88	0.000000	0.400	0.238	45.98	Ratio 1 t	
110	1,2-Dichlorobenzene 20.05	26.05	0.000000	0.000000	13.71	0.000000	0.000000	0.000000	0.000000	0.000000	4.42	9.29	0.000000	0.400	0.164	26.91	Ratio 1 t	
111	1,2-Dibromo-3-chloropropane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	2.00	1.00	0.000000			
112	Dodecane 719.23	0.000000	66.26	60.12	719.23	236.24	131.75	184.35	143.99	116.87	184.31	212.46	0.000000	0.400	0.300	615.27	Ratio 1 t	
113	1,2,4-Trichlorobenzene 65.18	65.18	48.80	15.77	46.15	24.18	0.000000	13.22	59.47	0.000000	30.31	25.09	0.000000	0.400	0.417	72.67	Ratio 1 t	
114	Hexachlorobutadiene 38.61	0.000000	0.000000	0.000000	38.61	0.000000	0.000000	0.000000	0.000000	0.000000	4.29	12.87	0.000000	0.400	0.115	37.27	Ratio 1 t	
115	Naphthalene 385.24	42.99	32.63	22.36	385.24	178.02	96.40	0.000000	0.000000	34.33	88.00	124.65	0.000000	0.400	0.244	360.98	Ratio 1 t	
116	1,2,3-Trichlorobenzene 129.49	129.49	0.000000	0.000000	74.71	47.26	0.000000	0.000000	0.000000	0.000000	27.94	46.85	0.000000	0.400	0.206	135.67	Ratio 1 t	

Reviewer 1 _____ Date: 11/03/20

Reviewer 2 _____ Date: _____

eurofins | Air Toxics

Client Sample ID: CCV

Lab ID#: 2108390-28A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p082002**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 8/20/21 11:13 AM**

Compound	%Recovery
1,1,1,2-Tetrachloroethane	106
1,1,1-Trichloroethane	106
1,1,2,2-Tetrachloroethane	103
1,1,2-Trichloroethane	108
1,1-Dichloroethane	105
1,1-Dichloroethene	90
1,1-Difluoroethane	90
1,2,3-Trichloropropane	107
1,2,4-Trichlorobenzene	105
1,2,4-Trimethylbenzene	104
1,2-Dibromo-3-chloropropane	110
1,2-Dibromoethane (EDB)	110
1,2-Dichlorobenzene	110
1,2-Dichloroethane	126
1,2-Dichloropropane	104
1,3,5-Trimethylbenzene	106
1,3-Butadiene	118
1,3-Dichlorobenzene	111
1,4-Dichlorobenzene	110
1,4-Dioxane	100
2,2,4-Trimethylpentane	103
2-Butanone (Methyl Ethyl Ketone)	90
2-Hexanone	112
2-Propanol	113
3-Chloropropene	79
4-Ethyltoluene	104
4-Methyl-2-pentanone	107
Acetone	102
Acrolein	106
Acrylonitrile	118
alpha-Chlorotoluene	96
Benzene	100
Bromodichloromethane	116
Bromoform	114
Bromomethane	96
Carbon Disulfide	89
Carbon Tetrachloride	116
Chlorobenzene	104
Chloroethane	89
Chloroform	109
Chloromethane	107
cis-1,2-Dichloroethene	99

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Client Sample ID: CCV

Lab ID#: 2108390-28A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p082002**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/20/21 11:13 AM**	

Compound	%Recovery
cis-1,3-Dichloropropene	102
Cumene	99
Cyclohexane	88
Dibromochloromethane	116
Dibromomethane	117
Ethanol	107
Ethyl Acetate	128
Ethyl Benzene	100
Ethyl-tert-butyl ether	95
Freon 11	115
Freon 12	115
Freon 113	100
Freon 114	110
Freon 134a	119
Heptane	94
Hexachlorobutadiene	115
Hexachloroethane	119
Hexane	99
Iodomethane	102
Isopropyl ether	116
m,p-Xylene	99
Methyl tert-butyl ether	88
Methylene Chloride	129
Naphthalene	91
o-Xylene	99
Propylbenzene	105
Propylene	116
Styrene	98
tert-Amyl methyl ether	95
tert-Butyl alcohol	95
Tetrachloroethene	112
Tetrahydrofuran	122
Toluene	102
TPH ref. to Gasoline (MW=100)	100
trans-1,2-Dichloroethene	93
trans-1,3-Dichloropropene	105
Trichloroethene	107
Vinyl Acetate	91
Vinyl Bromide	93
Vinyl Chloride	93

Container Type: NA - Not Applicable

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Client Sample ID: CCV

Lab ID#: 2108390-28A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p082002**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/20/21 11:13 AM**	

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	109	70-130
4-Bromofluorobenzene	112	70-130

US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/20AUG21.b/p082002.d
Lab Smp Id: CCV Client Smp ID: CCV
Inj Date : 20-AUG-2021 11:13
Operator : LD Inst ID: msdp.i
Smp Info : 100mL 3018-2125A
Misc Info : 50ppbv (100ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/20AUG21.b/p21q0519a.m
Meth Date : 20-Aug-2021 12:59 p5fl Quant Type: ISTD
Cal Date : 19-MAY-2021 19:45 Cal File: p051915.d
Als bottle: 13 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT20_new.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 90 Bromochloromethane					CAS #: 74-97-5		
5.785	5.785 (1.000)	130	109375	25.0000		80.00- 120.00	100.00
5.785	5.785 (1.000)	128	86987			48.23- 108.23	79.53
5.778	5.778 (1.000)	49	252556			150.57- 210.57	230.91
* 108 1,4-Difluorobenzene					CAS #: 540-36-3		
6.659	6.659 (1.000)	114	406799	25.0000		80.00- 120.00	100.00
6.659	6.659 (1.000)	88	58621			0.00- 45.71	14.41
* 153 Chlorobenzene-d5					CAS #: 3114-55-4		
9.460	9.460 (1.000)	117	400841	25.0000		80.00- 120.00	100.00
9.460	9.460 (1.000)	82	200890			23.78- 83.78	50.12
$ 104 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
6.315	6.315 (1.092)	65	164746	25.0000	27.293	80.00- 120.00	100.00
6.315	6.315 (1.092)	67	92918			27.21- 87.21	56.40
$ 134 Toluene-d8					CAS #: 2037-26-5		
7.891	7.891 (1.185)	98	441939	25.0000	25.018	80.00- 120.00	100.00
7.891	7.891 (1.185)	70	49000			0.00- 40.44	11.09

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 134 Toluene-d8 (continued)							
7.891	7.891 (1.185)	100	288216			34.95- 94.95	65.22
$ 170 4-Bromofluorobenzene					CAS #: 460-00-4		
10.921	10.921 (1.154)	174	287575	25.0000	27.938	80.00- 120.00	100.00
10.914	10.914 (1.154)	95	337062			95.92- 155.92	117.21
10.921	10.921 (1.154)	176	276251			66.89- 126.89	96.06
4 Freon 134a					CAS #: 811-97-2		
1.647	1.647 (0.285)	83	205639	50.0000	59.403	80.00- 120.00	100.00
1.647	1.647 (0.285)	69	149435			59.44- 119.44	72.67
1.759	1.759 (0.304)	51	971960			419.06- 479.06	472.65
5 Propylene					CAS #: 115-07-1		
1.689	1.689 (0.292)	41	290070	50.0000	57.955	80.00- 120.00	100.00
1.689	1.689 (0.292)	42	191402			35.28- 95.28	65.98
1.689	1.689 (0.292)	39	198863			38.35- 98.35	68.56
7 1,1-Difluoroethane					CAS #: 75-37-6		
1.703	1.703 (0.294)	65	112267	50.0000	45.284	80.00- 120.00	100.00
1.759	1.759 (0.304)	51	971960			597.63- 657.63	865.76
1.717	1.717 (0.297)	47	105458			33.72- 93.72	93.93
8 Freon 12					CAS #: 75-71-8		
1.717	1.717 (0.297)	85	566393	50.0000	57.738	80.00- 120.00	100.00
1.717	1.717 (0.297)	87	181544			2.37- 62.37	32.05
9 Chlorodifluoromethane					CAS #: 75-45-6		
1.759	1.759 (0.304)	67	60692	50.0000	62.633	80.00- 120.00	100.00
1.759	1.759 (0.304)	51	971960			1501.01-1561.01	1601.46
10 Freon 114					CAS #: 76-14-2		
1.856	1.856 (0.321)	135	528385	50.0000	54.872	80.00- 120.00	100.00
1.856	1.856 (0.321)	137	164884			2.30- 62.30	31.21
12 Isobutane					CAS #: 75-28-5		
1.870	1.870 (0.323)	43	628866	50.0000	56.753	80.00- 120.00	100.00
1.870	1.870 (0.323)	42	212436			2.44- 62.44	33.78
1.870	1.870 (0.323)	58	16674			0.00- 33.36	2.65
15 Chloromethane					CAS #: 74-87-3		
1.954	1.954 (0.338)	50	303729	50.0000	53.369	80.00- 120.00	100.00
1.954	1.954 (0.338)	52	71000			0.00- 56.26	23.38
18 Butane					CAS #: 106-97-8		
2.039	2.039 (0.352)	58	69923	50.0000	53.039	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
18 Butane (continued)							
2.039	2.039 (0.352)	43	637115			823.29- 883.29	911.17
19 Vinyl Chloride					CAS #: 75-01-4		
2.075	2.075 (0.359)	62	318962	50.0000	46.588	80.00- 120.00	100.00
2.075	2.075 (0.359)	64	93780			0.00- 59.69	29.40
20 1,3-Butadiene					CAS #: 106-99-0		
2.103	2.103 (0.364)	54	323911	50.0000	58.822	80.00- 120.00	100.00
2.103	2.103 (0.364)	39	420874			52.37- 112.37	129.94
24 Bromomethane					CAS #: 74-83-9		
2.490	2.490 (0.430)	94	210322	50.0000	47.776	80.00- 120.00	100.00
2.490	2.490 (0.430)	96	197243			64.07- 124.07	93.78
30 Chloroethane					CAS #: 75-00-3		
2.612	2.612 (0.452)	64	110075	50.0000	44.711	80.00- 120.00	100.00
2.612	2.612 (0.452)	66	31039			0.04- 60.04	28.20
2.612	2.612 (0.452)	49	49866			4.54- 64.54	45.30
31 Isopentane					CAS #: 78-78-4		
2.641	2.641 (0.456)	43	418638	50.0000	55.883	80.00- 120.00	100.00
2.641	2.641 (0.456)	57	231726			34.12- 94.12	55.35
32 Vinyl Bromide					CAS #: 593-60-2		
2.848	2.848 (0.492)	106	188868	50.0000	46.415	80.00- 120.00	100.00
2.848	2.848 (0.492)	108	186803			69.27- 129.27	98.91
33 Freon 11					CAS #: 75-69-4		
2.891	2.891 (0.500)	101	597856	50.0000	57.351	80.00- 120.00	100.00
2.891	2.891 (0.500)	103	389714			34.72- 94.72	65.19
34 Dichlorofluoromethane					CAS #: 75-43-4		
2.906	2.906 (0.502)	67	442378	50.0000	49.236	80.00- 120.00	100.00
2.906	2.906 (0.502)	69	136287			0.84- 60.84	30.81
35 Pentane					CAS #: 109-66-0		
2.970	2.970 (0.513)	43	674407	50.0000	55.386	80.00- 120.00	100.00
2.970	2.970 (0.513)	57	85605			0.00- 44.98	12.69
2.970	2.970 (0.513)	72	34815			0.00- 37.39	5.16
38 Ethyl Ether					CAS #: 60-29-7		
3.285	3.285 (0.568)	74	86411	50.0000	42.064	80.00- 120.00	100.00
3.285	3.285 (0.568)	59	190530			163.46- 223.46	220.49
3.285	3.285 (0.568)	45	335861			250.40- 310.40	388.68

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
39 Ethanol					CAS #: 64-17-5		
3.242	3.242 (0.560)	46	58231	50.0000	53.686	80.00- 120.00	100.00
3.285	3.285 (0.568)	45	333512			511.19- 571.19	572.74
42 Acrolein					CAS #: 107-02-8		
3.543	3.543 (0.612)	55	99914	50.0000	53.086	80.00- 120.00	100.00
3.543	3.543 (0.612)	56	131651			111.10- 171.10	131.76
43 Freon 113					CAS #: 76-13-1		
3.550	3.550 (0.614)	151	385554	50.0000	49.780	80.00- 120.00	100.00
3.558	3.558 (0.615)	153	246682			33.56- 93.56	63.98
3.550	3.550 (0.614)	101	456853			89.21- 149.21	118.49
44 1,1-Dichloroethene					CAS #: 75-35-4		
3.586	3.586 (0.620)	96	208468	50.0000	45.056	80.00- 120.00	100.00
3.586	3.586 (0.620)	98	130381			34.02- 94.02	62.54
3.586	3.586 (0.620)	61	463995			168.77- 228.77	222.57
47 Acetone					CAS #: 67-64-1		
3.722	3.722 (0.643)	58	146545	50.0000	51.108	80.00- 120.00	100.00
3.722	3.722 (0.643)	43	573053			302.95- 362.95	391.04
48 Carbon Disulfide					CAS #: 75-15-0		
3.830	3.830 (0.662)	76	543465	50.0000	44.584	80.00- 120.00	100.00
49 Iodomethane					CAS #: 74-88-4		
3.794	3.794 (0.656)	142	412457	50.0000	50.901	80.00- 120.00	100.00
3.794	3.794 (0.656)	127	207639			12.22- 72.22	50.34
52 2-Propanol					CAS #: 67-63-0		
3.894	3.894 (0.673)	45	652579	50.0000	56.469	80.00- 120.00	100.00
3.894	3.894 (0.673)	43	131288			0.00- 47.19	20.12
54 3-Chloropropene					CAS #: 107-05-1		
4.052	4.052 (0.700)	76	80783	50.0000	39.670	80.00- 120.00	100.00
4.052	4.052 (0.700)	41	456403			396.19- 456.19	564.97
57 Acetonitrile					CAS #: 75-05-8		
4.131	4.131 (0.714)	41	324525	50.0000	60.251	80.00- 120.00	100.00
4.131	4.131 (0.714)	40	168037			20.95- 80.95	51.78
4.131	4.131 (0.714)	38	38243			0.00- 41.17	11.78
59 Methylene Chloride					CAS #: 75-09-2		
4.238	4.238 (0.733)	49	479396	50.0000	64.367	80.00- 120.00	100.00
4.238	4.238 (0.733)	84	179062			22.03- 82.03	37.35
4.238	4.238 (0.733)	51	140119			0.18- 60.18	29.23

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
62 tert-Butyl alcohol					CAS #: 75-65-0		
4.346	4.346 (0.751)	59	641541	50.0000	47.604	80.00- 120.00	100.00
4.338	4.338 (0.750)	41	168473			0.00- 51.11	26.26
4.346	4.346 (0.751)	57	73147			0.00- 40.49	11.40
63 Methyl tert-butyl ether					CAS #: 1634-04-4		
4.446	4.446 (0.768)	73	589697	50.0000	43.902	80.00- 120.00	100.00
4.446	4.446 (0.768)	57	219653			3.10- 63.10	37.25
4.446	4.446 (0.768)	41	246675			1.28- 61.28	41.83
64 trans-1,2-Dichloroethene					CAS #: 156-60-5		
4.482	4.482 (0.775)	98	144053	50.0000	46.596	80.00- 120.00	100.00
4.482	4.482 (0.775)	61	441821			255.84- 315.84	306.71
4.482	4.482 (0.775)	96	230690			127.59- 187.59	160.14
66 Acrylonitrile					CAS #: 107-13-1		
4.568	4.568 (0.789)	52	254916	50.0000	59.233	80.00- 120.00	100.00
4.568	4.568 (0.789)	53	286886			88.05- 148.05	112.54
67 Hexane					CAS #: 110-54-3		
4.697	4.697 (0.812)	57	534648	50.0000	49.621	80.00- 120.00	100.00
4.697	4.697 (0.812)	43	417579			37.52- 97.52	78.10
4.697	4.697 (0.812)	86	54838			0.00- 41.48	10.26
71 1,1-Dichloroethane					CAS #: 75-34-3		
4.969	4.969 (0.859)	63	485977	50.0000	52.466	80.00- 120.00	100.00
4.969	4.969 (0.859)	65	138946			0.00- 59.70	28.59
72 Isopropyl ether					CAS #: 108-20-3		
4.947	4.947 (0.855)	45	1455137	50.0000	58.068	80.00- 120.00	100.00
4.954	4.954 (0.856)	87	198385			0.00- 48.18	13.63
4.947	4.947 (0.855)	59	127115			0.00- 40.15	8.74
73 Vinyl Acetate					CAS #: 108-05-4		
4.997	4.997 (0.864)	86	54268	50.0000	45.587	80.00- 120.00	100.00
4.997	4.997 (0.864)	43	1291152			2432.48-2492.48	2379.21
79 Ethyl-tert-butyl ether					CAS #: 637-92-3		
5.305	5.305 (0.917)	59	1032355	50.0000	47.592	80.00- 120.00	100.00
5.305	5.305 (0.917)	87	299760			1.00- 61.00	29.04
5.305	5.305 (0.917)	41	257987			0.00- 48.73	24.99
84 2,2-Dichloropropane					CAS #: 594-20-7		
5.513	5.513 (0.953)	77	425016	50.0000	51.671	80.00- 120.00	100.00
5.513	5.513 (0.953)	79	135932			2.28- 62.28	31.98
5.513	5.513 (0.953)	97	97746			0.00- 53.93	23.00

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
85 cis-1,2-Dichloroethene					CAS #: 156-59-2		
5.549	5.549 (0.959)	98	158882	50.0000	49.522	80.00- 120.00	100.00
5.549	5.549 (0.959)	96	249139			125.75- 185.75	156.81
5.549	5.549 (0.959)	61	612954			332.40- 392.40	385.79
86 2-Butanone					CAS #: 78-93-3		
5.556	5.556 (0.960)	72	111173	50.0000	44.970	80.00- 120.00	100.00
5.563	5.563 (0.962)	43	1929367			1214.50-1274.50	1735.46
5.556	5.556 (0.960)	57	57820			14.68- 74.68	52.01
87 Ethyl Acetate					CAS #: 141-78-6		
5.570	5.570 (0.963)	45	156777	50.0000	63.757	80.00- 120.00	100.00
5.549	5.549 (0.959)	61	612954			452.04- 512.04	390.97
5.578	5.578 (0.964)	70	54021			22.77- 82.77	34.46
89 Tetrahydrofuran					CAS #: 109-99-9		
5.778	5.778 (0.999)	42	501226	50.0000	60.963	80.00- 120.00	100.00
5.778	5.778 (0.999)	71	93093			0.00- 55.82	18.57
5.778	5.778 (0.999)	72	103816			0.00- 57.59	20.71
92 Chloroform					CAS #: 67-66-3		
5.843	5.843 (1.010)	83	517838	50.0000	54.415	80.00- 120.00	100.00
5.843	5.843 (1.010)	85	339688			34.70- 94.70	65.60
94 Cyclohexane					CAS #: 110-82-7		
5.957	5.957 (1.030)	84	303951	50.0000	44.178	80.00- 120.00	100.00
5.957	5.957 (1.030)	56	602903			142.57- 202.57	198.36
5.957	5.957 (1.030)	41	372874			62.09- 122.09	122.68
96 1,1,1-Trichloroethane					CAS #: 71-55-6		
5.972	5.972 (1.032)	97	571609	50.0000	53.169	80.00- 120.00	100.00
5.972	5.972 (1.032)	99	366042			34.02- 94.02	64.04
97 Carbon Tetrachloride					CAS #: 56-23-5		
6.093	6.093 (1.053)	119	586036	50.0000	58.121	80.00- 120.00	100.00
6.093	6.093 (1.053)	117	581420			70.64- 130.64	99.21
99 1,1-Dichloropropene					CAS #: 563-58-6		
6.122	6.122 (0.919)	110	142136	50.0000	51.330	80.00- 120.00	100.00
6.115	6.115 (0.918)	75	349980			226.85- 286.85	246.23
101 2,2,4-Trimethylpentane					CAS #: 540-84-1		
6.280	6.280 (1.085)	57	1931685	50.0000	51.580	80.00- 120.00	100.00
6.280	6.280 (1.085)	56	657559			2.24- 62.24	34.04
6.280	6.280 (1.085)	41	559512			0.00- 54.39	28.96

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
102 Benzene					CAS #: 71-43-2		
6.301	6.301 (0.946)	78	667890	50.0000	49.753	80.00- 120.00	100.00
6.301	6.301 (0.946)	77	156309			0.00- 52.90	23.40
105 tert-Amyl methyl ether					CAS #: 994-05-8		
6.358	6.358 (0.955)	87	179504	50.0000	47.422	80.00- 120.00	100.00
6.358	6.358 (0.955)	73	711799			372.79- 432.79	396.54
6.358	6.358 (0.955)	55	309781			112.09- 172.09	172.58
106 1,2-Dichloroethane					CAS #: 107-06-2		
6.380	6.380 (0.958)	62	440728	50.0000	63.095	80.00- 120.00	100.00
6.380	6.380 (0.958)	64	132991			0.79- 60.79	30.18
107 Heptane					CAS #: 142-82-5		
6.444	6.444 (0.968)	71	248885	50.0000	46.800	80.00- 120.00	100.00
6.444	6.444 (0.968)	43	855208			226.53- 286.53	343.62
6.444	6.444 (0.968)	57	384982			100.85- 160.85	154.68
110 n-Butanol					CAS #: 71-36-3		
6.810	6.810 (1.023)	56	268446	50.0000	55.002	80.00- 120.00	100.00
6.810	6.810 (1.023)	41	217204			40.99- 100.99	80.91
6.810	6.810 (1.023)	43	180832			27.38- 87.38	67.36
111 Trichloroethene					CAS #: 79-01-6		
6.867	6.867 (1.031)	95	348776	50.0000	53.543	80.00- 120.00	100.00
6.867	6.867 (1.031)	130	388899			76.29- 136.29	111.50
6.867	6.867 (1.031)	97	224689			33.63- 93.63	64.42
114 1,2-Dichloropropane					CAS #: 78-87-5		
7.096	7.096 (1.066)	63	359667	50.0000	52.260	80.00- 120.00	100.00
7.096	7.096 (1.066)	62	255797			41.07- 101.07	71.12
7.096	7.096 (1.066)	41	272350			22.53- 82.53	75.72
116 Methyl Methacrylate					CAS #: 80-62-6		
7.139	7.139 (0.755)	69	263944	50.0000	47.923	80.00- 120.00	100.00
7.139	7.139 (0.755)	41	679907			179.84- 239.84	257.60
7.139	7.139 (0.755)	100	105186			9.59- 69.59	39.85
117 1,4-Dioxane					CAS #: 123-91-1		
7.175	7.175 (1.077)	88	182061	50.0000	49.777	80.00- 120.00	100.00
7.175	7.175 (1.077)	58	201440			68.28- 128.28	110.64
7.175	7.175 (1.077)	57	72282			2.68- 62.68	39.70
118 Dibromomethane					CAS #: 74-95-3		
7.211	7.211 (0.762)	174	348011	50.0000	58.507	80.00- 120.00	100.00
7.204	7.204 (0.761)	93	313162			60.09- 120.09	89.99

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
118 Dibromomethane (continued)							
7.204	7.204 (0.761)	95	275784			48.38- 108.38	79.25
122 Bromodichloromethane					CAS #: 75-27-4		
7.318	7.318 (1.099)	83	587332	50.0000	58.152	80.00- 120.00	100.00
7.318	7.318 (1.099)	85	378598			35.24- 95.24	64.46
126 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.698	7.698 (1.156)	75	433135	50.0000	50.761	80.00- 120.00	100.00
7.698	7.698 (1.156)	77	138822			2.42- 62.42	32.05
7.698	7.698 (1.156)	39	356356			37.16- 97.16	82.27
127 Methylcyclohexane					CAS #: 108-87-2		
6.974	6.974 (1.047)	83	445644	50.0000	47.277	80.00- 120.00	100.00
6.974	6.974 (1.047)	98	210406			15.78- 75.78	47.21
6.974	6.974 (1.047)	55	596444			84.64- 144.64	133.84
131 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.798	7.798 (1.171)	58	375179	50.0000	53.682	80.00- 120.00	100.00
7.798	7.798 (1.171)	43	1203318			242.35- 302.35	320.73
7.798	7.798 (1.171)	85	109576			3.24- 63.24	29.21
137 Toluene					CAS #: 108-88-3		
7.956	7.956 (1.195)	91	948657	50.0000	51.221	80.00- 120.00	100.00
7.956	7.956 (1.195)	92	552175			28.38- 88.38	58.21
136 Octane					CAS #: 111-65-9		
7.949	7.949 (1.194)	57	424917	50.0000	53.807	80.00- 120.00	100.00
7.949	7.949 (1.194)	85	310037			56.00- 116.00	72.96
7.949	7.949 (1.194)	43	1279586			228.66- 288.66	301.14
139 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
8.214	8.214 (0.868)	75	414597	50.0000	52.560	80.00- 120.00	100.00
8.214	8.214 (0.868)	77	130781			1.24- 61.24	31.54
8.214	8.214 (0.868)	39	325656			34.11- 94.11	78.55
141 1,1,2-Trichloroethane					CAS #: 79-00-5		
8.400	8.400 (0.888)	97	352554	50.0000	54.073	80.00- 120.00	100.00
8.400	8.400 (0.888)	99	215064			31.96- 91.96	61.00
8.400	8.400 (0.888)	83	288974			52.93- 112.93	81.97
142 Tetrachloroethene					CAS #: 127-18-4		
8.464	8.464 (0.895)	166	509859	50.0000	55.811	80.00- 120.00	100.00
8.464	8.464 (0.895)	129	391628			47.84- 107.84	76.81
8.464	8.464 (0.895)	131	378378			45.29- 105.29	74.21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
143 2-Hexanone					CAS #: 591-78-6		
8.586	8.586 (0.908)	58	523118	50.0000	56.158	80.00- 120.00	100.00
8.586	8.586 (0.908)	43	1185008			162.87- 222.87	226.53
8.586	8.586 (0.908)	100	71086			0.00- 45.94	13.59
144 1,3-Dichloropropane					CAS #: 142-28-9		
8.579	8.579 (1.288)	76	465711	50.0000	52.950	80.00- 120.00	100.00
8.579	8.579 (1.288)	41	728850			94.99- 154.99	156.50
8.579	8.579 (1.288)	78	150350			2.05- 62.05	32.28
146 Dibromochloromethane					CAS #: 124-48-1		
8.801	8.801 (0.930)	129	706663	50.0000	58.008	80.00- 120.00	100.00
8.801	8.801 (0.930)	127	543885			47.45- 107.45	76.97
148 1,2-Dibromoethane (EDB)					CAS #: 106-93-4		
8.951	8.951 (0.946)	107	573806	50.0000	54.872	80.00- 120.00	100.00
8.951	8.951 (0.946)	109	540358			64.21- 124.21	94.17
151 1-Bromo-2-Chloroethane					CAS #: 107-04-0		
7.605	7.605 (1.142)	63	683808	50.0000	54.152	80.00- 120.00	100.00
7.605	7.605 (1.142)	65	196527			0.00- 59.64	28.74
7.612	7.612 (1.143)	144	69520			0.00- 39.63	10.17
154 Chlorobenzene					CAS #: 108-90-7		
9.496	9.496 (1.004)	112	826004	50.0000	51.895	80.00- 120.00	100.00
9.496	9.496 (1.004)	114	261169			1.74- 61.74	31.62
9.496	9.496 (1.004)	77	422219			25.04- 85.04	51.12
155 Ethyl Benzene					CAS #: 100-41-4		
9.567	9.567 (1.011)	106	414753	50.0000	49.833	80.00- 120.00	100.00
9.567	9.567 (1.011)	91	1238770			273.74- 333.74	298.68
156 Nonane					CAS #: 111-84-2		
9.603	9.603 (1.015)	43	1306912	50.0000	61.031	80.00- 120.00	100.00
9.603	9.603 (1.015)	57	927448			54.16- 114.16	70.96
9.603	9.603 (1.015)	85	231975			0.00- 53.90	17.75
158 m,p-Xylene					CAS #: 108-38-3		
9.718	9.718 (1.027)	106	515263	50.0000	49.431	80.00- 120.00	100.00
9.718	9.718 (1.027)	91	980094			163.73- 223.73	190.21
164 o-Xylene					CAS #: 95-47-6		
10.226	10.226 (1.081)	106	493243	50.0000	49.387	80.00- 120.00	100.00
10.226	10.226 (1.081)	91	987647			177.45- 237.45	200.24
165 Styrene					CAS #: 100-42-5		
10.255	10.255 (1.084)	104	832769	50.0000	48.756	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
165 Styrene (continued)							
10.255	10.255 (1.084)	78	384992			17.88- 77.88	46.23
167 Bromoform					CAS #: 75-25-2		
10.549	10.549 (1.115)	173	686381	50.0000	57.162	80.00- 120.00	100.00
10.542	10.542 (1.114)	171	353703			21.25- 81.25	51.53
168 Cumene					CAS #: 98-82-8		
10.649	10.649 (1.126)	105	1557370	50.0000	49.640	80.00- 120.00	100.00
10.649	10.649 (1.126)	120	458329			0.00- 58.52	29.43
10.649	10.649 (1.126)	51	261700			0.00- 43.00	16.80
169 Cyclohexanone					CAS #: 108-94-1		
10.871	10.871 (1.149)	55	613248	50.0000	54.656	80.00- 120.00	100.00
10.871	10.871 (1.149)	98	166440			1.94- 61.94	27.14
10.871	10.871 (1.149)	42	445849			37.89- 97.89	72.70
175 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
11.107	11.107 (1.174)	83	787367	50.0000	51.418	80.00- 120.00	100.00
11.107	11.107 (1.174)	85	504093			35.20- 95.20	64.02
177 Bromobenzene					CAS #: 108-86-1		
11.107	11.107 (1.174)	156	530697	50.0000	55.617	80.00- 120.00	100.00
11.107	11.107 (1.174)	158	511033			67.21- 127.21	96.29
11.179	11.179 (1.182)	77	267421			29.02- 89.02	50.39
178 Propylbenzene					CAS #: 103-65-1		
11.150	11.150 (1.179)	120	486821	50.0000	52.332	80.00- 120.00	100.00
11.150	11.150 (1.179)	91	1837861			366.49- 426.49	377.52
11.150	11.150 (1.179)	105	69655			0.00- 44.85	14.31
179 1,2,3-Trichloropropane					CAS #: 96-18-4		
11.179	11.179 (1.182)	110	261764	50.0000	53.634	80.00- 120.00	100.00
11.179	11.179 (1.182)	75	662348			280.55- 340.55	253.03
11.100	11.100 (1.173)	61	133264			15.49- 75.49	50.91
181 trans-1,4-Dichloro-2-butene					CAS #: 110-57-6		
11.179	11.179 (1.182)	53	95540	50.0000	29.861	80.00- 120.00	100.00
11.158	11.158 (1.179)	89	87752			49.11- 109.11	91.85
11.179	11.179 (1.182)	75	662348			426.44- 486.44	693.27
182 Decane					CAS #: 124-18-5		
11.251	11.251 (1.189)	57	1199996	50.0000	49.173	80.00- 120.00	100.00
11.258	11.258 (1.190)	71	285765			0.00- 57.66	23.81
11.258	11.258 (1.190)	142	44628			0.00- 34.09	3.72

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
183 4-Ethyltoluene					CAS #: 622-96-8		
11.287	11.287 (1.193)	120	524555	50.0000	51.851	80.00- 120.00	100.00
11.287	11.287 (1.193)	105	1588372			284.55- 344.55	302.80
184 2-Chlorotoluene					CAS #: 95-49-8		
11.308	11.308 (1.195)	126	424088	50.0000	53.541	80.00- 120.00	100.00
11.308	11.308 (1.195)	91	1412304			315.17- 375.17	333.02
11.301	11.301 (1.195)	65	216716			21.55- 81.55	51.10
185 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
11.365	11.365 (1.201)	120	742036	50.0000	53.274	80.00- 120.00	100.00
11.365	11.365 (1.201)	105	1392084			164.93- 224.93	187.60
188 alpha Methyl Styrene					CAS #: 98-83-9		
11.645	11.645 (1.231)	118	663136	50.0000	47.925	80.00- 120.00	100.00
11.645	11.645 (1.231)	103	363065			25.30- 85.30	54.75
189 tert-Butylbenzene					CAS #: 98-06-6		
11.745	11.745 (1.242)	119	1459032	50.0000	56.006	80.00- 120.00	100.00
11.745	11.745 (1.242)	134	349894			0.00- 54.25	23.98
11.745	11.745 (1.242)	91	844966			31.27- 91.27	57.91
190 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
11.817	11.817 (1.249)	105	1362118	50.0000	51.811	80.00- 120.00	100.00
11.817	11.817 (1.249)	120	692345			19.05- 79.05	50.83
192 sec-Butylbenzene					CAS #: 135-98-8		
12.003	12.003 (1.269)	134	444165	50.0000	54.856	80.00- 120.00	100.00
11.996	11.996 (1.268)	105	1991674			437.55- 497.55	448.41
11.996	11.996 (1.268)	91	306329			40.76- 100.76	68.97
194 p-Cymene					CAS #: 99-87-6		
12.160	12.160 (1.285)	119	1890739	50.0000	52.832	80.00- 120.00	100.00
12.160	12.160 (1.285)	134	494094			0.00- 55.54	26.13
12.160	12.160 (1.285)	91	399333			0.00- 51.48	21.12
195 1,3-Dichlorobenzene					CAS #: 541-73-1		
12.203	12.203 (1.290)	146	998808	50.0000	55.506	80.00- 120.00	100.00
12.203	12.203 (1.290)	148	634468			33.21- 93.21	63.52
12.196	12.196 (1.289)	111	395337			11.31- 71.31	39.58
196 1,4-Dichlorobenzene					CAS #: 106-46-7		
12.311	12.311 (1.301)	146	1005192	50.0000	55.278	80.00- 120.00	100.00
12.311	12.311 (1.301)	148	644258			33.90- 93.90	64.09
12.311	12.311 (1.301)	111	377476			9.45- 69.45	37.55

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
199 alpha-Chlorotoluene					CAS #: 100-44-7		
12.461	12.461 (1.317)	91	1198510	50.0000	47.996	80.00- 120.00	100.00
12.461	12.461 (1.317)	126	284260			0.00- 53.26	23.72
201 Undecane					CAS #: 1120-21-4		
12.640	12.640 (1.336)	57	1538189	50.0000	54.568	80.00- 120.00	100.00
12.640	12.640 (1.336)	43	1573824			58.12- 118.12	102.32
202 Butylbenzene					CAS #: 104-51-8		
12.626	12.626 (1.335)	134	484909	50.0000	53.349	80.00- 120.00	100.00
12.626	12.626 (1.335)	91	1607263			314.79- 374.79	331.46
12.626	12.626 (1.335)	92	847208			154.29- 214.29	174.71
204 1,2-Dichlorobenzene					CAS #: 95-50-1		
12.733	12.733 (1.346)	146	975107	50.0000	55.264	80.00- 120.00	100.00
12.733	12.733 (1.346)	148	610904			33.84- 93.84	62.65
12.733	12.733 (1.346)	111	394999			12.73- 72.73	40.51
206 1,2-Dibromo-3-chloropropane					CAS #: 96-12-8		
13.600	13.600 (1.438)	157	585539	50.0000	54.791	80.00- 120.00	100.00
13.600	13.600 (1.438)	75	474950			52.48- 112.48	81.11
13.600	13.600 (1.438)	155	455261			47.41- 107.41	77.75
207 Dodecane					CAS #: 112-40-3		
13.801	13.801 (1.459)	57	1500038	61.8000	67.136	80.00- 120.00	100.00
13.801	13.801 (1.459)	43	1426632			52.87- 112.87	95.11
213 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
14.467	14.467 (1.529)	180	865848	63.0000	66.417	80.00- 120.00	100.00
14.467	14.467 (1.529)	182	828954			65.33- 125.33	95.74
215 Hexachlorobutadiene					CAS #: 87-68-3		
14.582	14.582 (1.541)	225	678543	64.4000	73.958	80.00- 120.00	100.00
14.582	14.582 (1.541)	223	427014			33.17- 93.17	62.93
216 Naphthalene					CAS #: 91-20-3		
14.768	14.768 (1.561)	128	192737	6.35000	5.785	80.00- 120.00	100.00
14.768	14.768 (1.561)	127	24529			0.00- 42.88	12.73
222 1,2,3-Trichlorobenzene					CAS #: 87-61-6		
15.069	15.069 (1.593)	180	809599	66.6000	70.250	80.00- 120.00	100.00
15.069	15.069 (1.593)	182	778662			65.75- 125.75	96.18
15.069	15.069 (1.593)	145	271731			5.23- 65.23	33.56

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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msdp.i Injection Date: 20-AUG-2021 11:13
Lab File ID: p082002.d Init. Cal. Date(s): 19-MAY-2021 20-MAY-2021
Analysis Type: AIR Init. Cal. Times: 14:02 00:05
Lab Sample ID: CCV Quant Type: ISTD
Method: /chem/msdp.i/20AUG21.b/p21q0519a.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 104 1,2-Dichloroethane-d4	1.37968	1.50625	0.010	-9.17360	30.00000	Averaged
$ 134 Toluene-d8	1.08560	1.08638	0.010	-0.07216	30.00000	Averaged
$ 170 4-Bromofluorobenzene	0.64197	0.71743	0.010	-11.75404	30.00000	Averaged
4 Freon 134a	0.79126	0.94006	0.010	-18.80629	30.00000	Averaged
5 Propylene	1.14402	1.32603	0.010	-15.91018	30.00000	Averaged
7 1,1-Difluoroethane	0.56667	0.51322	0.010	9.43246	30.00000	Averaged
8 Freon 12	2.24223	2.58923	0.010	-15.47545	30.00000	Averaged
9 Chlorodifluoromethane	0.22149	0.27745	0.010	-25.26660	30.00000	Averaged
10 Freon 114	2.20100	2.41547	0.010	-9.74418	30.00000	Averaged
12 Isobutane	2.53275	2.87482	0.010	-13.50571	30.00000	Averaged
15 Chloromethane	1.30082	1.38848	0.010	-6.73843	30.00000	Averaged
18 Butane	0.30133	0.31965	0.010	-6.07861	30.00000	Averaged
19 Vinyl Chloride	1.56492	1.45811	0.010	6.82499	30.00000	Averaged
20 1,3-Butadiene	1.25865	1.48074	0.010	-17.64502	30.00000	Averaged
24 Bromomethane	1.00624	0.96147	0.010	4.44893	30.00000	Averaged
30 Chloroethane	0.56273	0.50320	0.010	10.57871	30.00000	Averaged
31 Isopentane	1.71230	1.91377	0.010	-11.76658	30.00000	Averaged
32 Vinyl Bromide	0.93008	0.86340	0.010	7.16978	30.00000	Averaged
33 Freon 11	2.38274	2.73306	0.010	-14.70212	30.00000	Averaged
34 Dichlorofluoromethane	2.05367	2.02230	0.010	1.52755	30.00000	Averaged
35 Pentane	2.78321	3.08300	0.010	-10.77146	30.00000	Averaged
38 Ethyl Ether	0.46955	0.39502	0.010	15.87297	30.00000	Averaged
39 Ethanol	0.24792	0.26620	0.010	-7.37135	30.00000	Averaged
42 Acrolein	0.43020	0.45675	0.010	-6.17120	30.00000	Averaged
43 Freon 113	1.77031	1.76253	0.010	0.43905	30.00000	Averaged
44 1,1-Dichloroethene	1.05757	0.95300	0.010	9.88777	30.00000	Averaged
47 Acetone	0.65540	0.66992	0.010	-2.21505	30.00000	Averaged
48 Carbon Disulfide	2.78620	2.48441	0.010	10.83163	30.00000	Averaged
49 Iodomethane	1.85215	1.88552	0.010	-1.80143	30.00000	Averaged
52 2-Propanol	2.64148	2.98322	0.010	-12.93756	30.00000	Averaged
54 3-Chloropropene	0.46546	0.36929	0.010	20.66094	30.00000	Averaged
57 Acetonitrile	1.23114	1.48354	0.010	-20.50153	30.00000	Averaged
59 Methylene Chloride	1.70236	2.19152	0.010	-28.73438	30.00000	Averaged
62 tert-Butyl alcohol	3.08038	2.93276	0.010	4.79219	30.00000	Averaged
63 Methyl tert-butyl ether	3.07018	2.69576	0.010	12.19551	30.00000	Averaged

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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msdp.i Injection Date: 20-AUG-2021 11:13
Lab File ID: p082002.d Init. Cal. Date(s): 19-MAY-2021 20-MAY-2021
Analysis Type: AIR Init. Cal. Times: 14:02 00:05
Lab Sample ID: CCV Quant Type: ISTD
Method: /chem/msdp.i/20AUG21.b/p21q0519a.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	MIN %D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
64 trans-1,2-Dichloroethene	0.70664	0.65853	0.010	6.80867	30.00000	Averaged
66 Acrylonitrile	0.98368	1.16533	0.010	-18.46583	30.00000	Averaged
67 Hexane	2.46279	2.44411	0.010	0.75863	30.00000	Averaged
71 1,1-Dichloroethane	2.11721	2.22161	0.010	-4.93100	30.00000	Averaged
72 Isopropyl ether	5.72778	6.65205	0.010	-16.13665	30.00000	Averaged
73 Vinyl Acetate	0.27210	0.24808	0.010	8.82580	30.00000	Averaged
79 Ethyl-tert-butyl ether	4.95812	4.71934	0.010	4.81602	30.00000	Averaged
84 2,2-Dichloropropane	1.88008	1.94293	0.010	-3.34271	30.00000	Averaged
85 cis-1,2-Dichloroethene	0.73332	0.72632	0.010	0.95526	30.00000	Averaged
86 2-Butanone	0.56506	0.50822	0.010	10.06000	30.00000	Averaged
87 Ethyl Acetate	0.56205	0.71669	0.010	-27.51428	30.00000	Averaged
89 Tetrahydrofuran	1.87928	2.29132	0.010	-21.92528	30.00000	Averaged
92 Chloroform	2.17519	2.36726	0.010	-8.82978	30.00000	Averaged
94 Cyclohexane	1.57260	1.38949	0.010	11.64365	30.00000	Averaged
96 1,1,1-Trichloroethane	2.45732	2.61307	0.010	-6.33829	30.00000	Averaged
97 Carbon Tetrachloride	2.30469	2.67902	0.010	-16.24212	30.00000	Averaged
99 1,1-Dichloropropene	0.17017	0.17470	0.010	-2.66036	30.00000	Averaged
101 2,2,4-Trimethylpentane	8.56002	8.83056	0.010	-3.16048	30.00000	Averaged
102 Benzene	0.82499	0.82091	0.010	0.49453	30.00000	Averaged
105 tert-Amyl methyl ether	0.23262	0.22063	0.010	5.15638	30.00000	Averaged
106 1,2-Dichloroethane	0.42928	0.54170	0.010	-26.19007	30.00000	Averaged
107 Heptane	0.32683	0.30591	0.010	6.40074	30.00000	Averaged
110 n-Butanol	0.29994	0.32995	0.010	-10.00483	30.00000	Averaged
111 Trichloroethene	0.40032	0.42868	0.010	-7.08540	30.00000	Averaged
114 1,2-Dichloropropane	0.42295	0.44207	0.010	-4.52106	30.00000	Averaged
116 Methyl Methacrylate	0.34351	0.32924	0.010	4.15366	30.00000	Averaged
117 1,4-Dioxane	0.22478	0.22377	0.010	0.44603	30.00000	Averaged
118 Dibromomethane	0.37098	0.43410	0.010	-17.01397	30.00000	Averaged
122 Bromodichloromethane	0.62070	0.72189	0.010	-16.30390	30.00000	Averaged
126 cis-1,3-Dichloropropene	0.52438	0.53237	0.010	-1.52290	30.00000	Averaged
127 Methylcyclohexane	0.57930	0.54774	0.010	5.44647	30.00000	Averaged
131 4-Methyl-2-pentanone	0.42950	0.46114	0.010	-7.36501	30.00000	Averaged
137 Toluene	1.13821	1.16600	0.010	-2.44186	30.00000	Averaged
136 Octane	0.48532	0.52227	0.010	-7.61408	30.00000	Averaged
139 trans-1,3-Dichloropropene	0.49197	0.51716	0.010	-5.11930	30.00000	Averaged

US32TAR1

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msdp.i Injection Date: 20-AUG-2021 11:13
Lab File ID: p082002.d Init. Cal. Date(s): 19-MAY-2021 20-MAY-2021
Analysis Type: AIR Init. Cal. Times: 14:02 00:05
Lab Sample ID: CCV Quant Type: ISTD
Method: /chem/msdp.i/20AUG21.b/p21q0519a.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
141 1,1,2-Trichloroethane	0.40664	0.43977	0.010	-8.14652	30.00000	Averaged	
142 Tetrachloroethene	0.56977	0.63599	0.010	-11.62156	30.00000	Averaged	
143 2-Hexanone	0.58097	0.65253	0.010	-12.31628	30.00000	Averaged	
144 1,3-Dichloropropane	0.54052	0.57241	0.010	-5.90016	30.00000	Averaged	
146 Dibromochloromethane	0.75978	0.88148	0.010	-16.01713	30.00000	Averaged	
148 1,2-Dibromoethane (EDB)	0.65220	0.71575	0.010	-9.74503	30.00000	Averaged	
151 1-Bromo-2-Chloroethane	0.77603	0.84047	0.010	-8.30417	30.00000	Averaged	
154 Chlorobenzene	0.99271	1.03034	0.010	-3.79071	30.00000	Averaged	
155 Ethyl Benzene	0.51909	0.51735	0.010	0.33444	30.00000	Averaged	
156 Nonane	1.33556	1.63021	0.010	-22.06231	30.00000	Averaged	
158 m,p-Xylene	0.65013	0.64273	0.010	1.13850	30.00000	Averaged	
164 o-Xylene	0.62290	0.61526	0.010	1.22615	30.00000	Averaged	
165 Styrene	1.06528	1.03878	0.010	2.48746	30.00000	Averaged	
167 Bromoform	0.74891	0.85618	0.010	-14.32316	30.00000	Averaged	
168 Cumene	1.95673	1.94263	0.010	0.72072	30.00000	Averaged	
169 Cyclohexanone	0.69978	0.76495	0.010	-9.31297	30.00000	Averaged	
175 1,1,2,2-Tetrachloroethane	0.95505	0.98214	0.010	-2.83691	30.00000	Averaged	
177 Bromobenzene	0.59512	0.66198	0.010	-11.23469	30.00000	Averaged	
178 Propylbenzene	0.58019	0.60725	0.010	-4.66344	30.00000	Averaged	
179 1,2,3-Trichloropropane	0.30440	0.32652	0.010	-7.26723	30.00000	Averaged	
181 trans-1,4-Dichloro-2-butene	0.19955	0.11917	0.010	40.27852	30.00000	Averaged	<-
182 Decane	1.52203	1.49685	0.010	1.65477	30.00000	Averaged	
183 4-Ethyltoluene	0.63096	0.65432	0.010	-3.70194	30.00000	Averaged	
184 2-Chlorotoluene	0.49401	0.52900	0.010	-7.08143	30.00000	Averaged	
185 1,3,5-Trimethylbenzene	0.86871	0.92560	0.010	-6.54896	30.00000	Averaged	
188 alpha Methyl Styrene	0.86300	0.82718	0.010	4.15005	30.00000	Averaged	
189 tert-Butylbenzene	1.62480	1.81996	0.010	-12.01139	30.00000	Averaged	
190 1,2,4-Trimethylbenzene	1.63968	1.69908	0.010	-3.62225	30.00000	Averaged	
192 sec-Butylbenzene	0.50500	0.55404	0.010	-9.71179	30.00000	Averaged	
194 p-Cymene	2.23203	2.35847	0.010	-5.66450	30.00000	Averaged	
195 1,3-Dichlorobenzene	1.12231	1.24589	0.010	-11.01105	30.00000	Averaged	
196 1,4-Dichlorobenzene	1.13414	1.25385	0.010	-10.55522	30.00000	Averaged	
199 alpha-Chlorotoluene	1.55742	1.49499	0.010	4.00823	30.00000	Averaged	
201 Undecane	1.75810	1.91870	0.010	-9.13522	30.00000	Averaged	
202 Butylbenzene	0.56690	0.60486	0.010	-6.69779	30.00000	Averaged	

US32TAR1

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msdp.i Injection Date: 20-AUG-2021 11:13
Lab File ID: p082002.d Init. Cal. Date(s): 19-MAY-2021 20-MAY-2021
Analysis Type: AIR Init. Cal. Times: 14:02 00:05
Lab Sample ID: CCV Quant Type: ISTD
Method: /chem/msdp.i/20AUG21.b/p21q0519a.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
204 1,2-Dichlorobenzene	1.10047	1.21633	0.010	-10.52749	30.00000	Averaged
206 1,2-Dibromo-3-chloropropane	0.66653	0.73039	0.010	-9.58127	30.00000	Averaged
207 Dodecane	1.39351	1.51385	0.010	-8.63515	30.00000	Averaged
213 1,2,4-Trichlorobenzene	0.81307	0.85717	0.010	-5.42406	30.00000	Averaged
215 Hexachlorobutadiene	0.57222	0.65714	0.010	-14.84142	30.00000	Averaged
216 Naphthalene	2.07796	1.89304	0.010	8.89932	30.00000	Averaged
222 1,2,3-Trichlorobenzene	0.71877	0.75816	0.010	-5.48066	30.00000	Averaged

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p082002.d
Lab Smp Id: CCV
Analysis Type: VOA
Quant Type: ISTD
Operator: LD
Method File: /chem/msdp.i/20AUG21.b/p21q0519a.m
Misc Info: 50ppbv (100ppbv)

Calibration Date: 20-AUG-2021
Calibration Time: 12:36
Client Smp ID: CCV
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	124196	74518	173874	109375	-11.93
108 1,4-Difluorobenze	450560	270336	630784	406799	-9.71
153 Chlorobenzene-d5	439287	263572	615002	400841	-8.75

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.78	5.45	6.11	5.79	0.12
108 1,4-Difluorobenze	6.67	6.34	7.00	6.66	-0.11
153 Chlorobenzene-d5	9.46	9.13	9.79	9.46	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msdp.i/20AUG21.b/p082002.d

Page 1

Date : 20-AUG-2021 11:13

Client ID: CCV

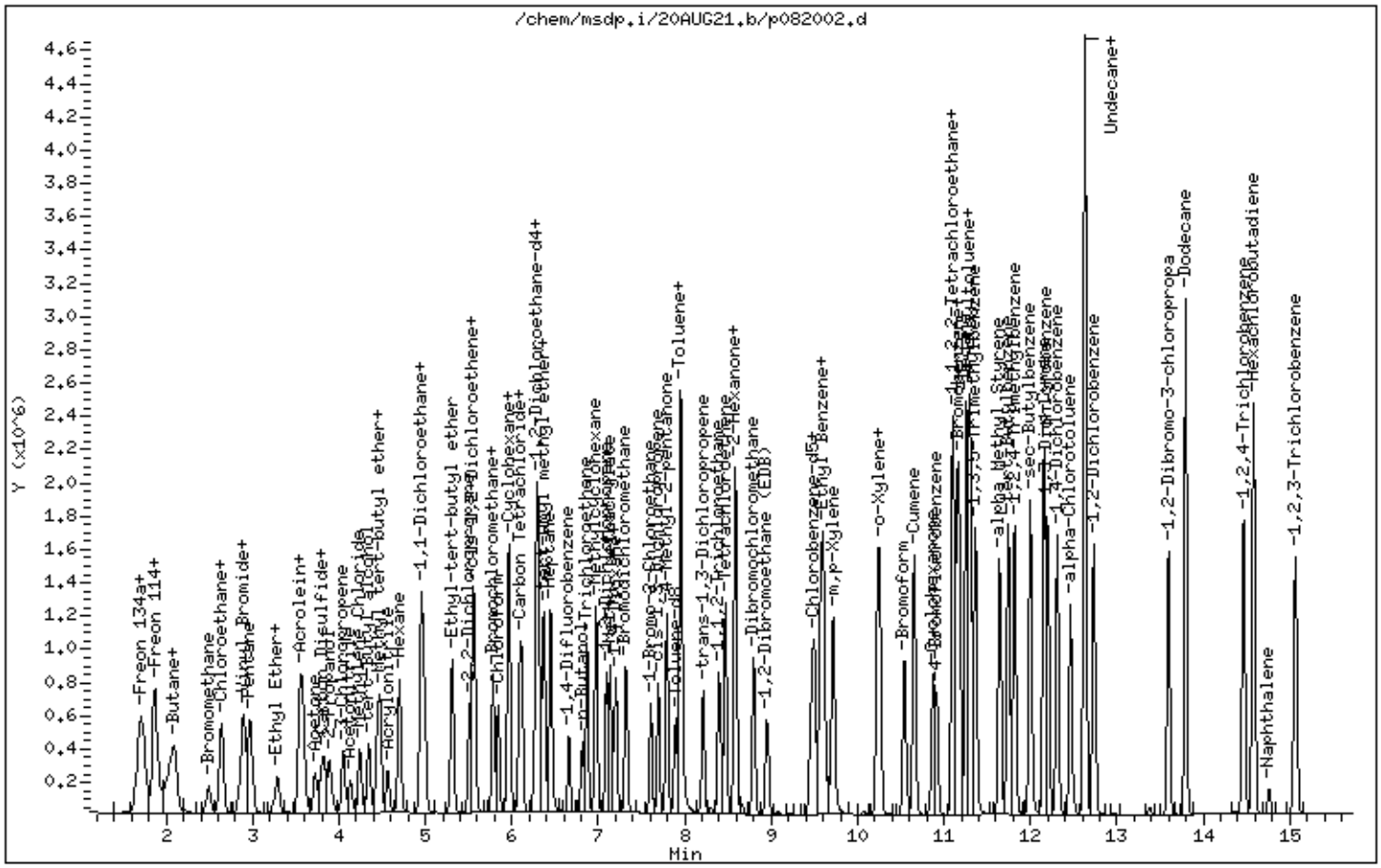
Instrument: msdp.i

Sample Info: 100mL 3018-2125A

Operator: LD

Column phase: RTX-624

Column diameter: 0.25



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Client Sample ID: CCV

Lab ID#: 2108390-28B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p082102**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 8/21/21 09:37 AM**

Compound	%Recovery
1,1,1,2-Tetrachloroethane	108
1,1,1-Trichloroethane	109
1,1,2,2-Tetrachloroethane	102
1,1,2-Trichloroethane	107
1,1-Dichloroethane	107
1,1-Dichloroethene	90
1,1-Difluoroethane	92
1,2,3-Trichloropropane	108
1,2,4-Trichlorobenzene	106
1,2,4-Trimethylbenzene	103
1,2-Dibromo-3-chloropropane	109
1,2-Dibromoethane (EDB)	109
1,2-Dichlorobenzene	111
1,2-Dichloroethane	129
1,2-Dichloropropane	105
1,3,5-Trimethylbenzene	107
1,3-Butadiene	120
1,3-Dichlorobenzene	112
1,4-Dichlorobenzene	110
1,4-Dioxane	98
2,2,4-Trimethylpentane	104
2-Butanone (Methyl Ethyl Ketone)	93
2-Hexanone	110
2-Propanol	116
3-Chloropropene	83
4-Ethyltoluene	104
4-Methyl-2-pentanone	108
Acetone	100
Acrolein	105
Acrylonitrile	115
alpha-Chlorotoluene	95
Benzene	98
Bromodichloromethane	116
Bromoform	113
Bromomethane	96
Carbon Disulfide	90
Carbon Tetrachloride	119
Chlorobenzene	103
Chloroethane	91
Chloroform	111
Chloromethane	106
cis-1,2-Dichloroethene	99

eurofins | Air Toxics

Client Sample ID: CCV

Lab ID#: 2108390-28B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p082102**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 8/21/21 09:37 AM**

Compound	%Recovery
cis-1,3-Dichloropropene	101
Cumene	99
Cyclohexane	89
Dibromochloromethane	117
Dibromomethane	117
Ethanol	108
Ethyl Acetate	131
Ethyl Benzene	99
Ethyl-tert-butyl ether	98
Freon 11	118
Freon 12	117
Freon 113	101
Freon 114	105
Freon 134a	122
Heptane	93
Hexachlorobutadiene	115
Hexachloroethane	118
Hexane	100
Iodomethane	104
Isopropyl ether	117
m,p-Xylene	98
Methyl tert-butyl ether	89
Methylene Chloride	131 Q
Naphthalene	92
o-Xylene	96
Propylbenzene	104
Propylene	116
Styrene	97
tert-Amyl methyl ether	97
tert-Butyl alcohol	97
Tetrachloroethene	111
Tetrahydrofuran	125
Toluene	103
TPH ref. to Gasoline (MW=100)	100
trans-1,2-Dichloroethene	95
trans-1,3-Dichloropropene	105
Trichloroethene	108
Vinyl Acetate	92
Vinyl Bromide	93
Vinyl Chloride	92

eurofins | Air Toxics

Client Sample ID: CCV

Lab ID#: 2108390-28B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p082102**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/21/21 09:37 AM**	

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	115	70-130
4-Bromofluorobenzene	111	70-130

US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem1/msdp.i/21AUG21.b/p082102.d
Lab Smp Id: CCV Client Smp ID: CCV
Inj Date : 21-AUG-2021 09:37
Operator : mb Inst ID: msdp.i
Smp Info : 100mL 3018-2125A
Misc Info : 50ppbv (100ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/21AUG21.b/p21q0519a.m
Meth Date : 21-Aug-2021 13:27 x8uy Quant Type: ISTD
Cal Date : 19-MAY-2021 19:45 Cal File: p051915.d
Als bottle: 13 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT20_new.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 90 Bromochloromethane					CAS #: 74-97-5		
5.785	5.785 (1.000)	130	102894	25.0000		80.00- 120.00	100.00
5.785	5.785 (1.000)	128	82157			48.23- 108.23	79.85
5.778	5.778 (1.000)	49	238915			150.57- 210.57	232.20
* 108 1,4-Difluorobenzene					CAS #: 540-36-3		
6.666	6.666 (1.000)	114	387356	25.0000		80.00- 120.00	100.00
6.659	6.659 (1.000)	88	56497			0.00- 45.71	14.59
* 153 Chlorobenzene-d5					CAS #: 3114-55-4		
9.460	9.460 (1.000)	117	386134	25.0000		80.00- 120.00	100.00
9.460	9.460 (1.000)	82	193773			23.78- 83.78	50.18
$ 104 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
6.315	6.315 (1.092)	65	162727	25.0000	28.657	80.00- 120.00	100.00
6.315	6.315 (1.092)	67	88166			27.21- 87.21	54.18
$ 134 Toluene-d8					CAS #: 2037-26-5		
7.891	7.891 (1.184)	98	426417	25.0000	25.351	80.00- 120.00	100.00
7.891	7.891 (1.184)	70	45251			0.00- 40.44	10.61

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
$ 134 Toluene-d8 (continued)							
7.891	7.891 (1.184)	100	273927			34.95- 94.95	64.24
$ 170 4-Bromofluorobenzene					CAS #: 460-00-4		
10.921	10.921 (1.154)	174	275584	25.0000	27.793	80.00- 120.00	100.00
10.914	10.914 (1.154)	95	321842			95.92- 155.92	116.79
10.921	10.921 (1.154)	176	262828			66.89- 126.89	95.37
4 Freon 134a					CAS #: 811-97-2		
1.647	1.647 (0.285)	83	199605	50.0000	61.292	80.00- 120.00	100.00
1.647	1.647 (0.285)	69	143721			59.44- 119.44	72.00
1.759	1.759 (0.304)	51	938013			419.06- 479.06	469.93
5 Propylene					CAS #: 115-07-1		
1.689	1.689 (0.292)	41	272831	50.0000	57.944	80.00- 120.00	100.00
1.689	1.689 (0.292)	42	182178			35.28- 95.28	66.77
1.689	1.689 (0.292)	39	192594			38.35- 98.35	70.59
7 1,1-Difluoroethane					CAS #: 75-37-6		
1.703	1.703 (0.294)	65	107612	50.0000	46.140	80.00- 120.00	100.00
1.759	1.759 (0.304)	51	938013			597.63- 657.63	871.66
1.717	1.717 (0.297)	47	101011			33.72- 93.72	93.87
8 Freon 12					CAS #: 75-71-8		
1.717	1.717 (0.297)	85	539299	50.0000	58.438	80.00- 120.00	100.00
1.717	1.717 (0.297)	87	175279			2.37- 62.37	32.50
9 Chlorodifluoromethane					CAS #: 75-45-6		
1.759	1.759 (0.304)	67	57943	50.0000	63.563	80.00- 120.00	100.00
1.759	1.759 (0.304)	51	938013			1501.01-1561.01	1618.85
10 Freon 114					CAS #: 76-14-2		
1.857	1.857 (0.321)	135	474761	50.0000	52.409	80.00- 120.00	100.00
1.857	1.857 (0.321)	137	154227			2.30- 62.30	32.49
12 Isobutane					CAS #: 75-28-5		
1.870	1.870 (0.323)	43	603092	50.0000	57.855	80.00- 120.00	100.00
1.870	1.870 (0.323)	42	200874			2.44- 62.44	33.31
1.870	1.870 (0.323)	58	15748			0.00- 33.36	2.61
15 Chloromethane					CAS #: 74-87-3		
1.954	1.954 (0.338)	50	284782	50.0000	53.192	80.00- 120.00	100.00
1.954	1.954 (0.338)	52	68899			0.00- 56.26	24.19
18 Butane					CAS #: 106-97-8		
2.046	2.046 (0.354)	58	64607	50.0000	52.094	80.00- 120.00	100.00

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
18 Butane (continued)							
2.039	2.039 (0.352)	43	605710			823.29- 883.29	937.53
19 Vinyl Chloride					CAS #: 75-01-4		
2.075	2.075 (0.359)	62	298006	50.0000	46.268	80.00- 120.00	100.00
2.075	2.075 (0.359)	64	88161			0.00- 59.69	29.58
20 1,3-Butadiene					CAS #: 106-99-0		
2.104	2.104 (0.364)	54	312189	50.0000	60.265	80.00- 120.00	100.00
2.096	2.096 (0.362)	39	406842			52.37- 112.37	130.32
24 Bromomethane					CAS #: 74-83-9		
2.490	2.490 (0.430)	94	198004	50.0000	47.810	80.00- 120.00	100.00
2.490	2.490 (0.430)	96	189462			64.07- 124.07	95.69
30 Chloroethane					CAS #: 75-00-3		
2.612	2.612 (0.452)	64	105577	50.0000	45.585	80.00- 120.00	100.00
2.619	2.619 (0.453)	66	29632			0.04- 60.04	28.07
2.619	2.619 (0.453)	49	49090			4.54- 64.54	46.50
31 Isopentane					CAS #: 78-78-4		
2.641	2.641 (0.456)	43	403516	50.0000	57.257	80.00- 120.00	100.00
2.641	2.641 (0.456)	57	220837			34.12- 94.12	54.73
32 Vinyl Bromide					CAS #: 593-60-2		
2.848	2.848 (0.492)	106	178449	50.0000	46.617	80.00- 120.00	100.00
2.848	2.848 (0.492)	108	176438			69.27- 129.27	98.87
33 Freon 11					CAS #: 75-69-4		
2.891	2.891 (0.500)	101	577543	50.0000	58.892	80.00- 120.00	100.00
2.891	2.891 (0.500)	103	375184			34.72- 94.72	64.96
34 Dichlorofluoromethane					CAS #: 75-43-4		
2.906	2.906 (0.502)	67	421114	50.0000	49.822	80.00- 120.00	100.00
2.906	2.906 (0.502)	69	127330			0.84- 60.84	30.24
35 Pentane					CAS #: 109-66-0		
2.977	2.977 (0.515)	43	643908	50.0000	56.212	80.00- 120.00	100.00
2.977	2.977 (0.515)	57	81403			0.00- 44.98	12.64
2.970	2.970 (0.513)	72	34045			0.00- 37.39	5.29
38 Ethyl Ether					CAS #: 60-29-7		
3.293	3.293 (0.569)	74	82063	50.0000	42.463	80.00- 120.00	100.00
3.293	3.293 (0.569)	59	182071			163.46- 223.46	221.87
3.285	3.285 (0.568)	45	318920			250.40- 310.40	388.63

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
39 Ethanol					CAS #: 64-17-5		
3.250	3.250 (0.562)	46	55131	50.0000	54.029	80.00- 120.00	100.00
3.285	3.285 (0.568)	45	318556			511.19- 571.19	577.82
42 Acrolein					CAS #: 107-02-8		
3.543	3.543 (0.612)	55	92658	50.0000	52.331	80.00- 120.00	100.00
3.543	3.543 (0.612)	56	125390			111.10- 171.10	135.33
43 Freon 113					CAS #: 76-13-1		
3.558	3.558 (0.615)	151	369743	50.0000	50.746	80.00- 120.00	100.00
3.558	3.558 (0.615)	153	233025			33.56- 93.56	63.02
3.550	3.550 (0.614)	101	432760			89.21- 149.21	117.04
44 1,1-Dichloroethene					CAS #: 75-35-4		
3.586	3.586 (0.620)	96	196383	50.0000	45.118	80.00- 120.00	100.00
3.586	3.586 (0.620)	98	122845			34.02- 94.02	62.55
3.586	3.586 (0.620)	61	443036			168.77- 228.77	225.60
47 Acetone					CAS #: 67-64-1		
3.722	3.722 (0.643)	58	135190	50.0000	50.117	80.00- 120.00	100.00
3.722	3.722 (0.643)	43	555671			302.95- 362.95	411.03
48 Carbon Disulfide					CAS #: 75-15-0		
3.830	3.830 (0.662)	76	515544	50.0000	44.958	80.00- 120.00	100.00
49 Iodomethane					CAS #: 74-88-4		
3.794	3.794 (0.656)	142	397671	50.0000	52.167	80.00- 120.00	100.00
3.794	3.794 (0.656)	127	198437			12.22- 72.22	49.90
52 2-Propanol					CAS #: 67-63-0		
3.894	3.894 (0.673)	45	627960	50.0000	57.761	80.00- 120.00	100.00
3.887	3.887 (0.672)	43	124851			0.00- 47.19	19.88
54 3-Chloropropene					CAS #: 107-05-1		
4.052	4.052 (0.700)	76	79656	50.0000	41.580	80.00- 120.00	100.00
4.052	4.052 (0.700)	41	436476			396.19- 456.19	547.95
57 Acetonitrile					CAS #: 75-05-8		
4.131	4.131 (0.714)	41	312657	50.0000	61.704	80.00- 120.00	100.00
4.131	4.131 (0.714)	40	166677			20.95- 80.95	53.31
4.131	4.131 (0.714)	38	34883			0.00- 41.17	11.16
59 Methylene Chloride					CAS #: 75-09-2		
4.238	4.238 (0.733)	49	459024	50.0000	65.514	80.00- 120.00	100.00
4.238	4.238 (0.733)	84	172252			22.03- 82.03	37.53
4.238	4.238 (0.733)	51	133610			0.18- 60.18	29.11

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
62 tert-Butyl alcohol					CAS #: 75-65-0		
4.346	4.346 (0.751)	59	616645	50.0000	48.639	80.00- 120.00	100.00
4.338	4.338 (0.750)	41	162683			0.00- 51.11	26.38
4.338	4.338 (0.750)	57	68892			0.00- 40.49	11.17
63 Methyl tert-butyl ether					CAS #: 1634-04-4		
4.446	4.446 (0.768)	73	561070	50.0000	44.402	80.00- 120.00	100.00
4.446	4.446 (0.768)	57	212191			3.10- 63.10	37.82
4.446	4.446 (0.768)	41	243993			1.28- 61.28	43.49
64 trans-1,2-Dichloroethene					CAS #: 156-60-5		
4.482	4.482 (0.775)	98	137831	50.0000	47.391	80.00- 120.00	100.00
4.482	4.482 (0.775)	61	418767			255.84- 315.84	303.83
4.482	4.482 (0.775)	96	219287			127.59- 187.59	159.10
66 Acrylonitrile					CAS #: 107-13-1		
4.568	4.568 (0.789)	52	233127	50.0000	57.582	80.00- 120.00	100.00
4.568	4.568 (0.789)	53	270464			88.05- 148.05	116.02
67 Hexane					CAS #: 110-54-3		
4.697	4.697 (0.812)	57	508645	50.0000	50.181	80.00- 120.00	100.00
4.697	4.697 (0.812)	43	401801			37.52- 97.52	78.99
4.697	4.697 (0.812)	86	50393			0.00- 41.48	9.91
71 1,1-Dichloroethane					CAS #: 75-34-3		
4.969	4.969 (0.859)	63	467737	50.0000	53.677	80.00- 120.00	100.00
4.969	4.969 (0.859)	65	130991			0.00- 59.70	28.01
72 Isopropyl ether					CAS #: 108-20-3		
4.947	4.947 (0.855)	45	1384797	50.0000	58.742	80.00- 120.00	100.00
4.954	4.954 (0.856)	87	186589			0.00- 48.18	13.47
4.954	4.954 (0.856)	59	121441			0.00- 40.15	8.77
73 Vinyl Acetate					CAS #: 108-05-4		
4.997	4.997 (0.864)	86	51591	50.0000	46.068	80.00- 120.00	100.00
4.997	4.997 (0.864)	43	1248256			2432.48-2492.48	2419.52
79 Ethyl-tert-butyl ether					CAS #: 637-92-3		
5.305	5.305 (0.917)	59	1000788	50.0000	49.043	80.00- 120.00	100.00
5.305	5.305 (0.917)	87	281955			1.00- 61.00	28.17
5.305	5.305 (0.917)	41	244228			0.00- 48.73	24.40
84 2,2-Dichloropropane					CAS #: 594-20-7		
5.513	5.513 (0.953)	77	410385	50.0000	53.035	80.00- 120.00	100.00
5.513	5.513 (0.953)	79	132157			2.28- 62.28	32.20
5.513	5.513 (0.953)	97	94105			0.00- 53.93	22.93

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
85 cis-1,2-Dichloroethene						CAS #: 156-59-2	
5.549	5.549 (0.959)	98	149746	50.0000	49.615	80.00- 120.00	100.00
5.549	5.549 (0.959)	96	234272			125.75- 185.75	156.45
5.549	5.549 (0.959)	61	588756			332.40- 392.40	393.17
86 2-Butanone						CAS #: 78-93-3	
5.556	5.556 (0.960)	72	107902	50.0000	46.396	80.00- 120.00	100.00
5.563	5.563 (0.962)	43	1876891			1214.50-1274.50	1739.44
5.556	5.556 (0.960)	57	57022			14.68- 74.68	52.85
87 Ethyl Acetate						CAS #: 141-78-6	
5.570	5.570 (0.963)	45	151125	50.0000	65.330	80.00- 120.00	100.00
5.549	5.549 (0.959)	61	588756			452.04- 512.04	389.58
5.570	5.570 (0.963)	70	53573			22.77- 82.77	35.45
89 Tetrahydrofuran						CAS #: 109-99-9	
5.778	5.778 (0.999)	42	482496	50.0000	62.381	80.00- 120.00	100.00
5.778	5.778 (0.999)	71	90264			0.00- 55.82	18.71
5.778	5.778 (0.999)	72	97919			0.00- 57.59	20.29
92 Chloroform						CAS #: 67-66-3	
5.843	5.843 (1.010)	83	498862	50.0000	55.723	80.00- 120.00	100.00
5.843	5.843 (1.010)	85	324401			34.70- 94.70	65.03
94 Cyclohexane						CAS #: 110-82-7	
5.957	5.957 (1.030)	84	289512	50.0000	44.730	80.00- 120.00	100.00
5.957	5.957 (1.030)	56	582645			142.57- 202.57	201.25
5.957	5.957 (1.030)	41	354876			62.09- 122.09	122.58
96 1,1,1-Trichloroethane						CAS #: 71-55-6	
5.972	5.972 (1.032)	97	552010	50.0000	54.580	80.00- 120.00	100.00
5.972	5.972 (1.032)	99	353828			34.02- 94.02	64.10
97 Carbon Tetrachloride						CAS #: 56-23-5	
6.093	6.093 (1.053)	119	566348	50.0000	59.706	80.00- 120.00	100.00
6.093	6.093 (1.053)	117	567652			70.64- 130.64	100.23
99 1,1-Dichloropropene						CAS #: 563-58-6	
6.122	6.122 (0.918)	110	135233	50.0000	51.289	80.00- 120.00	100.00
6.122	6.122 (0.918)	75	334015			226.85- 286.85	246.99
101 2,2,4-Trimethylpentane						CAS #: 540-84-1	
6.280	6.280 (1.085)	57	1838974	50.0000	52.198	80.00- 120.00	100.00
6.280	6.280 (1.085)	56	623103			2.24- 62.24	33.88
6.280	6.280 (1.085)	41	538778			0.00- 54.39	29.30

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
102 Benzene					CAS #: 71-43-2		
6.301	6.301 (0.945)	78	628269	50.0000	49.150	80.00- 120.00	100.00
6.301	6.301 (0.945)	77	150135			0.00- 52.90	23.90
105 tert-Amyl methyl ether					CAS #: 994-05-8		
6.358	6.358 (0.954)	87	175069	50.0000	48.572	80.00- 120.00	100.00
6.358	6.358 (0.954)	73	679330			372.79- 432.79	388.04
6.358	6.358 (0.954)	55	298902			112.09- 172.09	170.73
106 1,2-Dichloroethane					CAS #: 107-06-2		
6.380	6.380 (0.957)	62	429989	50.0000	64.647	80.00- 120.00	100.00
6.380	6.380 (0.957)	64	125728			0.79- 60.79	29.24
107 Heptane					CAS #: 142-82-5		
6.451	6.451 (0.968)	71	234787	50.0000	46.365	80.00- 120.00	100.00
6.444	6.444 (0.967)	43	823086			226.53- 286.53	350.57
6.444	6.444 (0.967)	57	364123			100.85- 160.85	155.09
110 n-Butanol					CAS #: 71-36-3		
6.810	6.810 (1.021)	56	257741	50.0000	55.460	80.00- 120.00	100.00
6.810	6.810 (1.021)	41	217458			40.99- 100.99	84.37
6.810	6.810 (1.021)	43	172356			27.38- 87.38	66.87
111 Trichloroethene					CAS #: 79-01-6		
6.867	6.867 (1.030)	95	335447	50.0000	54.081	80.00- 120.00	100.00
6.867	6.867 (1.030)	130	368483			76.29- 136.29	109.85
6.867	6.867 (1.030)	97	219516			33.63- 93.63	65.44
114 1,2-Dichloropropane					CAS #: 78-87-5		
7.096	7.096 (1.064)	63	344283	50.0000	52.536	80.00- 120.00	100.00
7.096	7.096 (1.064)	62	243885			41.07- 101.07	70.84
7.096	7.096 (1.064)	41	261911			22.53- 82.53	76.07
116 Methyl Methacrylate					CAS #: 80-62-6		
7.139	7.139 (0.755)	69	254015	50.0000	47.877	80.00- 120.00	100.00
7.139	7.139 (0.755)	41	659270			179.84- 239.84	259.54
7.139	7.139 (0.755)	100	101891			9.59- 69.59	40.11
117 1,4-Dioxane					CAS #: 123-91-1		
7.175	7.175 (1.076)	88	170887	50.0000	49.067	80.00- 120.00	100.00
7.175	7.175 (1.076)	58	194711			68.28- 128.28	113.94
7.175	7.175 (1.076)	57	69370			2.68- 62.68	40.59
118 Dibromomethane					CAS #: 74-95-3		
7.211	7.211 (0.762)	174	335131	50.0000	58.488	80.00- 120.00	100.00
7.204	7.204 (0.761)	93	300515			60.09- 120.09	89.67

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
118 Dibromomethane (continued)							
7.204	7.204 (0.761)	95	267074			48.38- 108.38	79.69
122 Bromodichloromethane					CAS #: 75-27-4		
7.318	7.318 (1.098)	83	559142	50.0000	58.140	80.00- 120.00	100.00
7.318	7.318 (1.098)	85	365555			35.24- 95.24	65.38
126 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.698	7.698 (1.155)	75	412035	50.0000	50.712	80.00- 120.00	100.00
7.698	7.698 (1.155)	77	130247			2.42- 62.42	31.61
7.691	7.691 (1.154)	39	347425			37.16- 97.16	84.32
127 Methylcyclohexane					CAS #: 108-87-2		
6.974	6.974 (1.046)	83	420030	50.0000	46.796	80.00- 120.00	100.00
6.974	6.974 (1.046)	98	205518			15.78- 75.78	48.93
6.974	6.974 (1.046)	55	575815			84.64- 144.64	137.09
131 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.798	7.798 (1.170)	58	359263	50.0000	53.985	80.00- 120.00	100.00
7.798	7.798 (1.170)	43	1171306			242.35- 302.35	326.03
7.798	7.798 (1.170)	85	101077			3.24- 63.24	28.13
137 Toluene					CAS #: 108-88-3		
7.956	7.956 (1.193)	91	905541	50.0000	51.347	80.00- 120.00	100.00
7.956	7.956 (1.193)	92	525364			28.38- 88.38	58.02
136 Octane					CAS #: 111-65-9		
7.949	7.949 (1.192)	57	411466	50.0000	54.719	80.00- 120.00	100.00
7.949	7.949 (1.192)	85	296702			56.00- 116.00	72.11
7.949	7.949 (1.192)	43	1231106			228.66- 288.66	299.20
139 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
8.214	8.214 (0.868)	75	397870	50.0000	52.360	80.00- 120.00	100.00
8.214	8.214 (0.868)	77	124935			1.24- 61.24	31.40
8.214	8.214 (0.868)	39	314302			34.11- 94.11	79.00
141 1,1,2-Trichloroethane					CAS #: 79-00-5		
8.400	8.400 (0.888)	97	335068	50.0000	53.349	80.00- 120.00	100.00
8.400	8.400 (0.888)	99	210160			31.96- 91.96	62.72
8.400	8.400 (0.888)	83	278345			52.93- 112.93	83.07
142 Tetrachloroethene					CAS #: 127-18-4		
8.464	8.464 (0.895)	166	489311	50.0000	55.602	80.00- 120.00	100.00
8.464	8.464 (0.895)	129	378842			47.84- 107.84	77.42
8.464	8.464 (0.895)	131	358630			45.29- 105.29	73.29

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
143 2-Hexanone					CAS #: 591-78-6		
8.586	8.586 (0.908)	58	495541	50.0000	55.224	80.00- 120.00	100.00
8.586	8.586 (0.908)	43	1148161			162.87- 222.87	231.70
8.586	8.586 (0.908)	100	69010			0.00- 45.94	13.93
144 1,3-Dichloropropane					CAS #: 142-28-9		
8.579	8.579 (1.287)	76	447591	50.0000	53.444	80.00- 120.00	100.00
8.579	8.579 (1.287)	41	705914			94.99- 154.99	157.71
8.579	8.579 (1.287)	78	141876			2.05- 62.05	31.70
146 Dibromochloromethane					CAS #: 124-48-1		
8.801	8.801 (0.930)	129	686026	50.0000	58.459	80.00- 120.00	100.00
8.801	8.801 (0.930)	127	530417			47.45- 107.45	77.32
148 1,2-Dibromoethane (EDB)					CAS #: 106-93-4		
8.951	8.951 (0.946)	107	549901	50.0000	54.589	80.00- 120.00	100.00
8.951	8.951 (0.946)	109	517211			64.21- 124.21	94.06
151 1-Bromo-2-Chloroethane					CAS #: 107-04-0		
7.605	7.605 (1.141)	63	666139	50.0000	55.401	80.00- 120.00	100.00
7.605	7.605 (1.141)	65	187961			0.00- 59.64	28.22
7.605	7.605 (1.141)	144	65542			0.00- 39.63	9.84
154 Chlorobenzene					CAS #: 108-90-7		
9.496	9.496 (1.004)	112	791530	50.0000	51.624	80.00- 120.00	100.00
9.496	9.496 (1.004)	114	252703			1.74- 61.74	31.93
9.496	9.496 (1.004)	77	401677			25.04- 85.04	50.75
155 Ethyl Benzene					CAS #: 100-41-4		
9.567	9.567 (1.011)	106	396084	50.0000	49.402	80.00- 120.00	100.00
9.567	9.567 (1.011)	91	1192151			273.74- 333.74	300.98
156 Nonane					CAS #: 111-84-2		
9.603	9.603 (1.015)	43	1262261	50.0000	61.191	80.00- 120.00	100.00
9.603	9.603 (1.015)	57	894151			54.16- 114.16	70.84
9.603	9.603 (1.015)	85	220920			0.00- 53.90	17.50
158 m,p-Xylene					CAS #: 108-38-3		
9.718	9.718 (1.027)	106	493911	50.0000	49.187	80.00- 120.00	100.00
9.718	9.718 (1.027)	91	942839			163.73- 223.73	190.89
164 o-Xylene					CAS #: 95-47-6		
10.226	10.226 (1.081)	106	464633	50.0000	48.294	80.00- 120.00	100.00
10.226	10.226 (1.081)	91	942446			177.45- 237.45	202.84
165 Styrene					CAS #: 100-42-5		
10.255	10.255 (1.084)	104	797255	50.0000	48.455	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
165 Styrene (continued)							
10.255	10.255 (1.084)	78	379091			17.88- 77.88	47.55
167 Bromoform					CAS #: 75-25-2		
10.542	10.542 (1.114)	173	655881	50.0000	56.702	80.00- 120.00	100.00
10.542	10.542 (1.114)	171	338469			21.25- 81.25	51.61
168 Cumene					CAS #: 98-82-8		
10.649	10.649 (1.126)	105	1496174	50.0000	49.505	80.00- 120.00	100.00
10.649	10.649 (1.126)	120	443168			0.00- 58.52	29.62
10.649	10.649 (1.126)	51	243658			0.00- 43.00	16.29
169 Cyclohexanone					CAS #: 108-94-1		
10.871	10.871 (1.149)	55	591145	50.0000	54.693	80.00- 120.00	100.00
10.871	10.871 (1.149)	98	157668			1.94- 61.94	26.67
10.871	10.871 (1.149)	42	425763			37.89- 97.89	72.02
175 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
11.100	11.100 (1.173)	83	755054	50.0000	51.186	80.00- 120.00	100.00
11.100	11.100 (1.173)	85	494872			35.20- 95.20	65.54
177 Bromobenzene					CAS #: 108-86-1		
11.107	11.107 (1.174)	156	506757	50.0000	55.131	80.00- 120.00	100.00
11.107	11.107 (1.174)	158	498621			67.21- 127.21	98.39
11.172	11.172 (1.181)	77	256414			29.02- 89.02	50.60
178 Propylbenzene					CAS #: 103-65-1		
11.150	11.150 (1.179)	120	466725	50.0000	52.082	80.00- 120.00	100.00
11.150	11.150 (1.179)	91	1779173			366.49- 426.49	381.20
11.150	11.150 (1.179)	105	69976			0.00- 44.85	14.99
179 1,2,3-Trichloropropane					CAS #: 96-18-4		
11.179	11.179 (1.182)	110	253488	50.0000	53.916	80.00- 120.00	100.00
11.179	11.179 (1.182)	75	646913			280.55- 340.55	255.20
11.100	11.100 (1.173)	61	127811			15.49- 75.49	50.42
181 trans-1,4-Dichloro-2-butene					CAS #: 110-57-6		
11.179	11.179 (1.182)	53	93409	50.0000	30.307	80.00- 120.00	100.00
11.158	11.158 (1.179)	89	83365			49.11- 109.11	89.25
11.179	11.179 (1.182)	75	646913			426.44- 486.44	692.56
182 Decane					CAS #: 124-18-5		
11.251	11.251 (1.189)	57	1162261	50.0000	49.440	80.00- 120.00	100.00
11.251	11.251 (1.189)	71	275613			0.00- 57.66	23.71
11.258	11.258 (1.190)	142	44568			0.00- 34.09	3.83

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
183 4-Ethyltoluene					CAS #: 622-96-8		
11.287	11.287 (1.193)	120	507458	50.0000	52.071	80.00- 120.00	100.00
11.287	11.287 (1.193)	105	1536944			284.55- 344.55	302.87
184 2-Chlorotoluene					CAS #: 95-49-8		
11.308	11.308 (1.195)	126	417625	50.0000	54.733	80.00- 120.00	100.00
11.308	11.308 (1.195)	91	1353773			315.17- 375.17	324.16
11.301	11.301 (1.195)	65	198198			21.55- 81.55	47.46
185 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
11.365	11.365 (1.201)	120	717827	50.0000	53.499	80.00- 120.00	100.00
11.365	11.365 (1.201)	105	1345900			164.93- 224.93	187.50
188 alpha Methyl Styrene					CAS #: 98-83-9		
11.645	11.645 (1.231)	118	634771	50.0000	47.622	80.00- 120.00	100.00
11.645	11.645 (1.231)	103	342150			25.30- 85.30	53.90
189 tert-Butylbenzene					CAS #: 98-06-6		
11.745	11.745 (1.242)	119	1363672	50.0000	54.339	80.00- 120.00	100.00
11.745	11.745 (1.242)	134	335029			0.00- 54.25	24.57
11.738	11.738 (1.241)	91	808130			31.27- 91.27	59.26
190 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
11.817	11.817 (1.249)	105	1306116	50.0000	51.573	80.00- 120.00	100.00
11.817	11.817 (1.249)	120	663926			19.05- 79.05	50.83
192 sec-Butylbenzene					CAS #: 135-98-8		
11.996	11.996 (1.268)	134	422984	50.0000	54.230	80.00- 120.00	100.00
11.996	11.996 (1.268)	105	1924517			437.55- 497.55	454.99
11.996	11.996 (1.268)	91	296004			40.76- 100.76	69.98
194 p-Cymene					CAS #: 99-87-6		
12.160	12.160 (1.285)	119	1841694	50.0000	53.422	80.00- 120.00	100.00
12.160	12.160 (1.285)	134	474991			0.00- 55.54	25.79
12.160	12.160 (1.285)	91	384251			0.00- 51.48	20.86
195 1,3-Dichlorobenzene					CAS #: 541-73-1		
12.203	12.203 (1.290)	146	971027	50.0000	56.017	80.00- 120.00	100.00
12.203	12.203 (1.290)	148	624131			33.21- 93.21	64.28
12.196	12.196 (1.289)	111	382154			11.31- 71.31	39.36
196 1,4-Dichlorobenzene					CAS #: 106-46-7		
12.311	12.311 (1.301)	146	967606	50.0000	55.237	80.00- 120.00	100.00
12.311	12.311 (1.301)	148	617282			33.90- 93.90	63.79
12.311	12.311 (1.301)	111	369369			9.45- 69.45	38.17

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
199 alpha-Chlorotoluene					CAS #: 100-44-7		
12.461	12.461 (1.317)	91	1146898	50.0000	47.678	80.00- 120.00	100.00
12.461	12.461 (1.317)	126	270606			0.00- 53.26	23.59
201 Undecane					CAS #: 1120-21-4		
12.640	12.640 (1.336)	57	1495339	50.0000	55.068	80.00- 120.00	100.00
12.640	12.640 (1.336)	43	1537773			58.12- 118.12	102.84
202 Butylbenzene					CAS #: 104-51-8		
12.626	12.626 (1.335)	134	468449	50.0000	53.501	80.00- 120.00	100.00
12.626	12.626 (1.335)	91	1564767			314.79- 374.79	334.03
12.626	12.626 (1.335)	92	818645			154.29- 214.29	174.76
204 1,2-Dichlorobenzene					CAS #: 95-50-1		
12.741	12.741 (1.347)	146	943816	50.0000	55.528	80.00- 120.00	100.00
12.741	12.741 (1.347)	148	603629			33.84- 93.84	63.96
12.733	12.733 (1.346)	111	382149			12.73- 72.73	40.49
206 1,2-Dibromo-3-chloropropane					CAS #: 96-12-8		
13.600	13.600 (1.438)	157	561200	50.0000	54.513	80.00- 120.00	100.00
13.600	13.600 (1.438)	75	461537			52.48- 112.48	82.24
13.600	13.600 (1.438)	155	436972			47.41- 107.41	77.86
207 Dodecane					CAS #: 112-40-3		
13.801	13.801 (1.459)	57	1474667	61.8000	68.515	80.00- 120.00	100.00
13.801	13.801 (1.459)	43	1410378			52.87- 112.87	95.64
213 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
14.467	14.467 (1.529)	180	839177	63.0000	66.823	80.00- 120.00	100.00
14.467	14.467 (1.529)	182	807232			65.33- 125.33	96.19
215 Hexachlorobutadiene					CAS #: 87-68-3		
14.582	14.582 (1.541)	225	654719	64.4000	74.079	80.00- 120.00	100.00
14.582	14.582 (1.541)	223	414108			33.17- 93.17	63.25
216 Naphthalene					CAS #: 91-20-3		
14.768	14.768 (1.561)	128	187637	6.35000	5.846	80.00- 120.00	100.00
14.768	14.768 (1.561)	127	22844			0.00- 42.88	12.17
222 1,2,3-Trichlorobenzene					CAS #: 87-61-6		
15.069	15.069 (1.593)	180	787916	66.6000	70.973	80.00- 120.00	100.00
15.069	15.069 (1.593)	182	747229			65.75- 125.75	94.84
15.069	15.069 (1.593)	145	267206			5.23- 65.23	33.91

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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msdp.i Injection Date: 21-AUG-2021 09:37
Lab File ID: p082102.d Init. Cal. Date(s): 19-MAY-2021 20-MAY-2021
Analysis Type: AIR Init. Cal. Times: 14:02 00:05
Lab Sample ID: CCV Quant Type: ISTD
Method: /chem/msdp.i/21AUG21.b/p21q0519a.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
$ 104 1,2-Dichloroethane-d4	1.37968	1.58150	0.010	-14.62791	30.00000	Averaged	
$ 134 Toluene-d8	1.08560	1.10084	0.010	-1.40399	30.00000	Averaged	
$ 170 4-Bromofluorobenzene	0.64197	0.71370	0.010	-11.17322	30.00000	Averaged	
4 Freon 134a	0.79126	0.96995	0.010	-22.58389	30.00000	Averaged	
5 Propylene	1.14402	1.32579	0.010	-15.88854	30.00000	Averaged	
7 1,1-Difluoroethane	0.56667	0.52293	0.010	7.71966	30.00000	Averaged	
8 Freon 12	2.24223	2.62065	0.010	-16.87710	30.00000	Averaged	
9 Chlorodifluoromethane	0.22149	0.28157	0.010	-27.12554	30.00000	Averaged	
10 Freon 114	2.20100	2.30704	0.010	-4.81757	30.00000	Averaged	
12 Isobutane	2.53275	2.93065	0.010	-15.71008	30.00000	Averaged	
15 Chloromethane	1.30082	1.38386	0.010	-6.38370	30.00000	Averaged	
18 Butane	0.30133	0.31395	0.010	-4.18744	30.00000	Averaged	
19 Vinyl Chloride	1.56492	1.44812	0.010	7.46341	30.00000	Averaged	
20 1,3-Butadiene	1.25865	1.51704	0.010	-20.52953	30.00000	Averaged	
24 Bromomethane	1.00624	0.96217	0.010	4.37910	30.00000	Averaged	
30 Chloroethane	0.56273	0.51304	0.010	8.83050	30.00000	Averaged	
31 Isopentane	1.71230	1.96083	0.010	-14.51492	30.00000	Averaged	
32 Vinyl Bromide	0.93008	0.86715	0.010	6.76625	30.00000	Averaged	
33 Freon 11	2.38274	2.80650	0.010	-17.78424	30.00000	Averaged	
34 Dichlorofluoromethane	2.05367	2.04635	0.010	0.35652	30.00000	Averaged	
35 Pentane	2.78321	3.12899	0.010	-12.42364	30.00000	Averaged	
38 Ethyl Ether	0.46955	0.39877	0.010	15.07376	30.00000	Averaged	
39 Ethanol	0.24792	0.26790	0.010	-8.05828	30.00000	Averaged	
42 Acrolein	0.43020	0.45026	0.010	-4.66255	30.00000	Averaged	
43 Freon 113	1.77031	1.79672	0.010	-1.49199	30.00000	Averaged	
44 1,1-Dichloroethene	1.05757	0.95430	0.010	9.76475	30.00000	Averaged	
47 Acetone	0.65540	0.65694	0.010	-0.23431	30.00000	Averaged	
48 Carbon Disulfide	2.78620	2.50522	0.010	10.08483	30.00000	Averaged	
49 Iodomethane	1.85215	1.93243	0.010	-4.33431	30.00000	Averaged	
52 2-Propanol	2.64148	3.05149	0.010	-15.52216	30.00000	Averaged	
54 3-Chloropropene	0.46546	0.38708	0.010	16.84018	30.00000	Averaged	
57 Acetonitrile	1.23114	1.51932	0.010	-23.40723	30.00000	Averaged	
59 Methylene Chloride	1.70236	2.23057	0.010	-31.02783	30.00000	Averaged	<-
62 tert-Butyl alcohol	3.08038	2.99651	0.010	2.72273	30.00000	Averaged	
63 Methyl tert-butyl ether	3.07018	2.72645	0.010	11.19593	30.00000	Averaged	

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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msdp.i Injection Date: 21-AUG-2021 09:37
Lab File ID: p082102.d Init. Cal. Date(s): 19-MAY-2021 20-MAY-2021
Analysis Type: AIR Init. Cal. Times: 14:02 00:05
Lab Sample ID: CCV Quant Type: ISTD
Method: /chem/msdp.i/21AUG21.b/p21q0519a.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
64 trans-1,2-Dichloroethene	0.70664	0.66977	0.010	5.21751	30.00000	Averaged	
66 Acrylonitrile	0.98368	1.13285	0.010	-15.16396	30.00000	Averaged	
67 Hexane	2.46279	2.47169	0.010	-0.36160	30.00000	Averaged	
71 1,1-Dichloroethane	2.11721	2.27291	0.010	-7.35391	30.00000	Averaged	
72 Isopropyl ether	5.72778	6.72924	0.010	-17.48422	30.00000	Averaged	
73 Vinyl Acetate	0.27210	0.25070	0.010	7.86384	30.00000	Averaged	
79 Ethyl-tert-butyl ether	4.95812	4.86320	0.010	1.91448	30.00000	Averaged	
84 2,2-Dichloropropane	1.88008	1.99421	0.010	-6.07036	30.00000	Averaged	
85 cis-1,2-Dichloroethene	0.73332	0.72767	0.010	0.77069	30.00000	Averaged	
86 2-Butanone	0.56506	0.52434	0.010	7.20789	30.00000	Averaged	
87 Ethyl Acetate	0.56205	0.73437	0.010	-30.65944	30.00000	Averaged	<-
89 Tetrahydrofuran	1.87928	2.34463	0.010	-24.76188	30.00000	Averaged	
92 Chloroform	2.17519	2.42415	0.010	-11.44544	30.00000	Averaged	
94 Cyclohexane	1.57260	1.40685	0.010	10.54003	30.00000	Averaged	
96 1,1,1-Trichloroethane	2.45732	2.68242	0.010	-9.16052	30.00000	Averaged	
97 Carbon Tetrachloride	2.30469	2.75209	0.010	-19.41272	30.00000	Averaged	
99 1,1-Dichloropropene	0.17017	0.17456	0.010	-2.57723	30.00000	Averaged	
101 2,2,4-Trimethylpentane	8.56002	8.93625	0.010	-4.39523	30.00000	Averaged	
102 Benzene	0.82499	0.81097	0.010	1.69916	30.00000	Averaged	
105 tert-Amyl methyl ether	0.23262	0.22598	0.010	2.85670	30.00000	Averaged	
106 1,2-Dichloroethane	0.42928	0.55503	0.010	-29.29492	30.00000	Averaged	
107 Heptane	0.32683	0.30306	0.010	7.27062	30.00000	Averaged	
110 n-Butanol	0.29994	0.33269	0.010	-10.91951	30.00000	Averaged	
111 Trichloroethene	0.40032	0.43300	0.010	-8.16261	30.00000	Averaged	
114 1,2-Dichloropropane	0.42295	0.44440	0.010	-5.07234	30.00000	Averaged	
116 Methyl Methacrylate	0.34351	0.32892	0.010	4.24594	30.00000	Averaged	
117 1,4-Dioxane	0.22478	0.22058	0.010	1.86583	30.00000	Averaged	
118 Dibromomethane	0.37098	0.43396	0.010	-16.97510	30.00000	Averaged	
122 Bromodichloromethane	0.62070	0.72174	0.010	-16.27928	30.00000	Averaged	
126 cis-1,3-Dichloropropene	0.52438	0.53186	0.010	-1.42487	30.00000	Averaged	
127 Methylcyclohexane	0.57930	0.54218	0.010	6.40781	30.00000	Averaged	
131 4-Methyl-2-pentanone	0.42950	0.46374	0.010	-7.97081	30.00000	Averaged	
137 Toluene	1.13821	1.16887	0.010	-2.69421	30.00000	Averaged	
136 Octane	0.48532	0.53112	0.010	-9.43810	30.00000	Averaged	
139 trans-1,3-Dichloropropene	0.49197	0.51520	0.010	-4.72047	30.00000	Averaged	

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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msdp.i Injection Date: 21-AUG-2021 09:37
Lab File ID: p082102.d Init. Cal. Date(s): 19-MAY-2021 20-MAY-2021
Analysis Type: AIR Init. Cal. Times: 14:02 00:05
Lab Sample ID: CCV Quant Type: ISTD
Method: /chem/msdp.i/21AUG21.b/p21q0519a.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
141 1,1,2-Trichloroethane	0.40664	0.43388	0.010	-6.69742	30.00000	Averaged	
142 Tetrachloroethene	0.56977	0.63360	0.010	-11.20314	30.00000	Averaged	
143 2-Hexanone	0.58097	0.64167	0.010	-10.44772	30.00000	Averaged	
144 1,3-Dichloropropane	0.54052	0.57775	0.010	-6.88852	30.00000	Averaged	
146 Dibromochloromethane	0.75978	0.88833	0.010	-16.91882	30.00000	Averaged	
148 1,2-Dibromoethane (EDB)	0.65220	0.71206	0.010	-9.17882	30.00000	Averaged	
151 1-Bromo-2-Chloroethane	0.77603	0.85985	0.010	-10.80145	30.00000	Averaged	
154 Chlorobenzene	0.99271	1.02494	0.010	-3.24709	30.00000	Averaged	
155 Ethyl Benzene	0.51909	0.51288	0.010	1.19544	30.00000	Averaged	
156 Nonane	1.33556	1.63449	0.010	-22.38227	30.00000	Averaged	
158 m,p-Xylene	0.65013	0.63956	0.010	1.62585	30.00000	Averaged	
164 o-Xylene	0.62290	0.60165	0.010	3.41155	30.00000	Averaged	
165 Styrene	1.06528	1.03236	0.010	3.09029	30.00000	Averaged	
167 Bromoform	0.74891	0.84929	0.010	-13.40393	30.00000	Averaged	
168 Cumene	1.95673	1.93738	0.010	0.98910	30.00000	Averaged	
169 Cyclohexanone	0.69978	0.76547	0.010	-9.38648	30.00000	Averaged	
175 1,1,2,2-Tetrachloroethane	0.95505	0.97771	0.010	-2.37264	30.00000	Averaged	
177 Bromobenzene	0.59512	0.65619	0.010	-10.26240	30.00000	Averaged	
178 Propylbenzene	0.58019	0.60436	0.010	-4.16477	30.00000	Averaged	
179 1,2,3-Trichloropropane	0.30440	0.32824	0.010	-7.83224	30.00000	Averaged	
181 trans-1,4-Dichloro-2-butene	0.19955	0.12095	0.010	39.38667	30.00000	Averaged	<-
182 Decane	1.52203	1.50500	0.010	1.11936	30.00000	Averaged	
183 4-Ethyltoluene	0.63096	0.65710	0.010	-4.14300	30.00000	Averaged	
184 2-Chlorotoluene	0.49401	0.54078	0.010	-9.46588	30.00000	Averaged	
185 1,3,5-Trimethylbenzene	0.86871	0.92951	0.010	-6.99860	30.00000	Averaged	
188 alpha Methyl Styrene	0.86300	0.82196	0.010	4.75538	30.00000	Averaged	
189 tert-Butylbenzene	1.62480	1.76580	0.010	-8.67794	30.00000	Averaged	
190 1,2,4-Trimethylbenzene	1.63968	1.69127	0.010	-3.14641	30.00000	Averaged	
192 sec-Butylbenzene	0.50500	0.54772	0.010	-8.45935	30.00000	Averaged	
194 p-Cymene	2.23203	2.38479	0.010	-6.84374	30.00000	Averaged	
195 1,3-Dichlorobenzene	1.12231	1.25737	0.010	-12.03393	30.00000	Averaged	
196 1,4-Dichlorobenzene	1.13414	1.25294	0.010	-10.47471	30.00000	Averaged	
199 alpha-Chlorotoluene	1.55742	1.48510	0.010	4.64329	30.00000	Averaged	
201 Undecane	1.75810	1.93630	0.010	-10.13592	30.00000	Averaged	
202 Butylbenzene	0.56690	0.60659	0.010	-7.00193	30.00000	Averaged	

US32TAR1

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msdp.i Injection Date: 21-AUG-2021 09:37
Lab File ID: p082102.d Init. Cal. Date(s): 19-MAY-2021 20-MAY-2021
Analysis Type: AIR Init. Cal. Times: 14:02 00:05
Lab Sample ID: CCV Quant Type: ISTD
Method: /chem/msdp.i/21AUG21.b/p21q0519a.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
204 1,2-Dichlorobenzene	1.10047	1.22214	0.010	-11.05535	30.00000	Averaged
206 1,2-Dibromo-3-chloropropane	0.66653	0.72669	0.010	-9.02655	30.00000	Averaged
207 Dodecane	1.39351	1.54493	0.010	-10.86543	30.00000	Averaged
213 1,2,4-Trichlorobenzene	0.81307	0.86241	0.010	-6.06833	30.00000	Averaged
215 Hexachlorobutadiene	0.57222	0.65822	0.010	-15.02976	30.00000	Averaged
216 Naphthalene	2.07796	1.91314	0.010	7.93192	30.00000	Averaged
222 1,2,3-Trichlorobenzene	0.71877	0.76596	0.010	-6.56556	30.00000	Averaged

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p082102.d
Lab Smp Id: CCV
Analysis Type: VOA
Quant Type: ISTD
Operator: mb
Method File: /chem/msdp.i/21AUG21.b/p21q0519a.m
Misc Info: 50ppbv (100ppbv)

Calibration Date: 21-AUG-2021
Calibration Time: 12:59
Client Smp ID: CCV
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	114978	68987	160969	102894	-10.51
108 1,4-Difluorobenze	408965	245379	572551	387356	-5.28
153 Chlorobenzene-d5	404180	242508	565852	386134	-4.46

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.78	5.45	6.11	5.79	0.13
108 1,4-Difluorobenze	6.67	6.34	7.00	6.67	0.00
153 Chlorobenzene-d5	9.46	9.13	9.79	9.46	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem1/msdp.i/21AUG21.b/p082102.d

Page 1

Date : 21-AUG-2021 09:37

Client ID: CCV

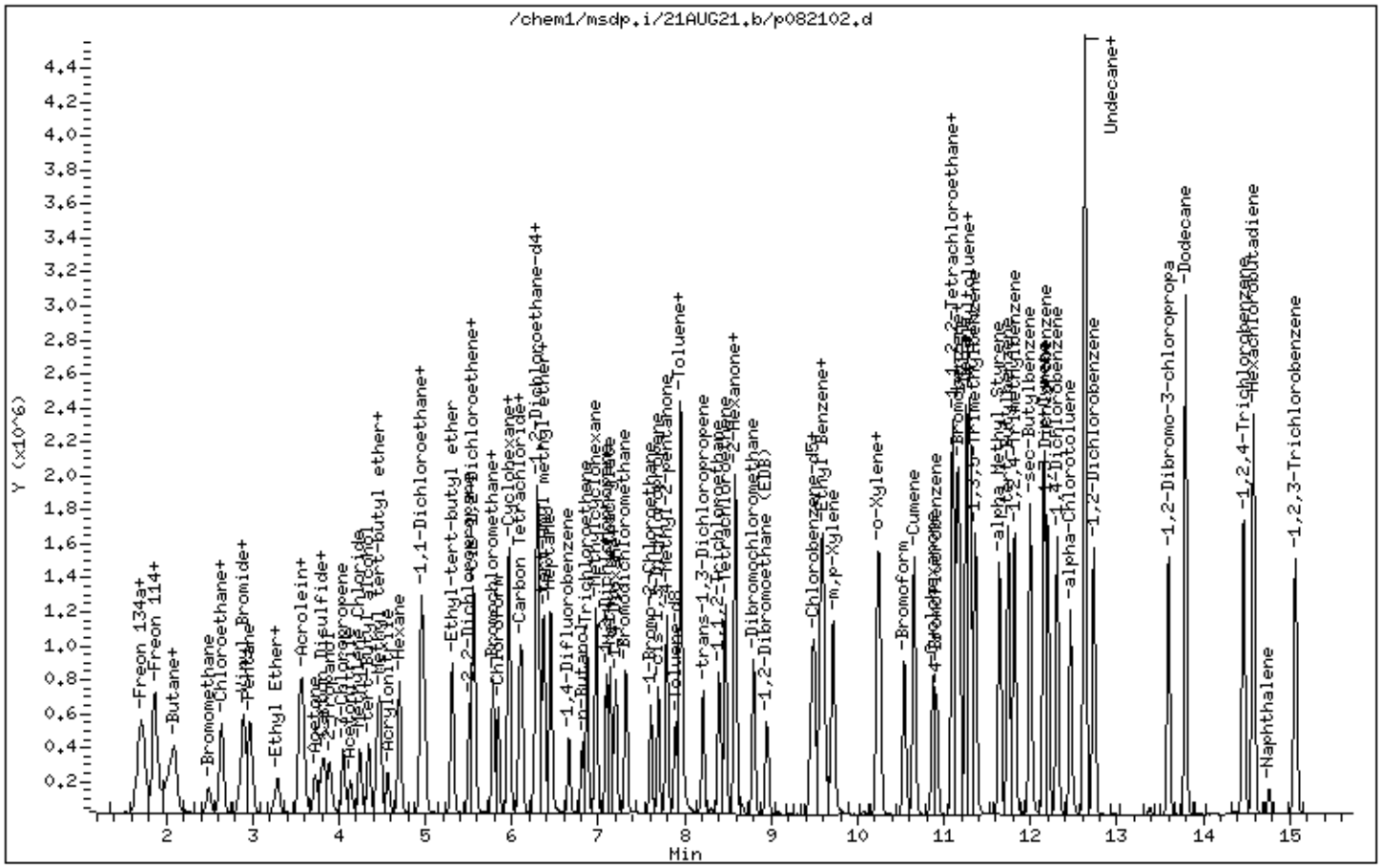
Instrument: msdp.i

Sample Info: 100mL 3018-2125A

Operator: mb

Column phase: RTX-624

Column diameter: 0.25



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Client Sample ID: LCS

Lab ID#: 2108390-29A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p082003**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/20/21 11:40 AM**	

Compound	%Recovery	Method Limits
1,1,1-Trichloroethane	104	70-130
1,1,2,2-Tetrachloroethane	102	70-130
1,1,2-Trichloroethane	103	70-130
1,1-Dichloroethane	95	70-130
1,1-Dichloroethene	86	70-130
1,2,4-Trichlorobenzene	117	70-130
1,2,4-Trimethylbenzene	106	70-130
1,2-Dibromoethane (EDB)	107	70-130
1,2-Dichlorobenzene	111	70-130
1,2-Dichloroethane	121	70-130
1,2-Dichloropropane	100	70-130
1,3,5-Trimethylbenzene	105	70-130
1,3-Butadiene	109	70-130
1,3-Dichlorobenzene	112	70-130
1,4-Dichlorobenzene	112	70-130
1,4-Dioxane	92	70-130
2,2,4-Trimethylpentane	100	70-130
2-Butanone (Methyl Ethyl Ketone)	81	70-130
2-Hexanone	108	70-130
2-Propanol	111	70-130
3-Chloropropene	82	70-130
4-Ethyltoluene	105	70-130
4-Methyl-2-pentanone	104	70-130
Acetone	96	70-130
alpha-Chlorotoluene	106	70-130
Benzene	94	70-130
Bromodichloromethane	110	70-130
Bromoform	114	70-130
Bromomethane	84	70-130
Carbon Disulfide	84	70-130
Carbon Tetrachloride	116	70-130
Chlorobenzene	102	70-130
Chloroethane	86	70-130
Chloroform	101	70-130
Chloromethane	123	70-130
cis-1,2-Dichloroethene	94	70-130
cis-1,3-Dichloropropene	97	70-130
Cumene	99	70-130
Cyclohexane	86	70-130
Dibromochloromethane	113	70-130
Ethanol	90	70-130
Ethyl Benzene	100	70-130

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Client Sample ID: LCS

Lab ID#: 2108390-29A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p082003**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/20/21 11:40 AM**	

Compound	%Recovery	Method Limits
Freon 11	109	70-130
Freon 12	106	70-130
Freon 113	99	70-130
Freon 114	102	70-130
Heptane	89	70-130
Hexachlorobutadiene	125	70-130
Hexane	96	70-130
m,p-Xylene	100	70-130
Methyl tert-butyl ether	87	70-130
Methylene Chloride	116	70-130
Naphthalene	104	60-140
o-Xylene	99	70-130
Propylbenzene	104	70-130
Propylene	106	60-140
Styrene	95	70-130
Tetrachloroethene	107	70-130
Tetrahydrofuran	111	70-130
Toluene	95	70-130
trans-1,2-Dichloroethene	88	70-130
trans-1,3-Dichloropropene	104	70-130
Trichloroethene	103	70-130
Vinyl Acetate	84	70-130
Vinyl Chloride	93	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	97	70-130
1,2-Dichloroethane-d4	111	70-130
4-Bromofluorobenzene	111	70-130

US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/20AUG21.b/p082003.d
Lab Smp Id: LCS Client Smp ID: LCS
Inj Date : 20-AUG-2021 11:40
Operator : LD Inst ID: msdp.i
Smp Info : 50mL 3018-2173
Misc Info : 50ppbv (200ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/20AUG21.b/p21q0519a.m
Meth Date : 20-Aug-2021 12:59 p5fl Quant Type: ISTD
Cal Date : 19-MAY-2021 19:45 Cal File: p051915.d
Als bottle: 14 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT20LCS_new.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE		(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 90 Bromochloromethane						CAS #: 74-97-5		
5.778	5.785 (1.000)	130	115405	25.0000			80.00- 120.00	100.00
5.778	5.785 (1.000)	128	91691				48.23- 108.23	79.45
5.778	5.778 (1.000)	49	257490				150.57- 210.57	223.12
* 108 1,4-Difluorobenzene						CAS #: 540-36-3		
6.659	6.659 (1.000)	114	421276	25.0000			80.00- 120.00	100.00
6.659	6.659 (1.000)	88	64535				0.00- 45.71	15.32
* 153 Chlorobenzene-d5						CAS #: 3114-55-4		
9.460	9.460 (1.000)	117	408672	25.0000			80.00- 120.00	100.00
9.460	9.460 (1.000)	82	212867				23.78- 83.78	52.09
$ 104 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
6.308	6.315 (1.092)	65	177227	27.8270	27.827		80.00- 120.00	100.00
6.308	6.315 (1.092)	67	93203				27.21- 87.21	52.59
$ 134 Toluene-d8						CAS #: 2037-26-5		
7.891	7.891 (1.185)	98	445572	24.3569	24.357		80.00- 120.00	100.00
7.891	7.891 (1.185)	70	45848				0.00- 40.44	10.29

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 134 Toluene-d8 (continued)							
7.891	7.891 (1.185)	100	297373			34.95- 94.95	66.74
$ 170 4-Bromofluorobenzene					CAS #: 460-00-4		
10.921	10.921 (1.154)	174	290281	27.6610	27.661	80.00- 120.00	100.00
10.914	10.914 (1.154)	95	340858			95.92- 155.92	117.42
10.921	10.921 (1.154)	176	270987			66.89- 126.89	93.35
4 Freon 134a					CAS #: 811-97-2		
1.646	1.647 (0.285)	83	218876	59.9233	59.923	80.00- 120.00	100.00
1.633	1.647 (0.283)	69	157730			59.44- 119.44	72.06
1.744	1.759 (0.302)	51	951309			419.06- 479.06	434.63
5 Propylene					CAS #: 115-07-1		
1.674	1.689 (0.290)	41	280443	53.1040	53.104	80.00- 120.00	100.00
1.674	1.689 (0.290)	42	188635			35.28- 95.28	67.26
1.674	1.689 (0.290)	39	195785			38.35- 98.35	69.81
7 1,1-Difluoroethane					CAS #: 75-37-6		
1.702	1.703 (0.295)	65	122190	46.7110	46.711	80.00- 120.00	100.00
1.744	1.759 (0.302)	51	951309			597.63- 657.63	778.55
1.702	1.717 (0.295)	47	107690			33.72- 93.72	88.13
8 Freon 12					CAS #: 75-71-8		
1.716	1.717 (0.297)	85	549549	53.0935	53.094	80.00- 120.00	100.00
1.716	1.717 (0.297)	87	181563			2.37- 62.37	33.04
9 Chlorodifluoromethane					CAS #: 75-45-6		
1.744	1.759 (0.302)	67	57646	56.3815	56.381	80.00- 120.00	100.00
1.744	1.759 (0.302)	51	951309			1501.01-1561.01	1650.26
10 Freon 114					CAS #: 76-14-2		
1.856	1.856 (0.321)	135	516373	50.8227	50.823	80.00- 120.00	100.00
1.856	1.856 (0.321)	137	162827			2.30- 62.30	31.53
12 Isobutane					CAS #: 75-28-5		
1.870	1.870 (0.324)	43	608013	52.0039	52.004	80.00- 120.00	100.00
1.870	1.870 (0.324)	42	201112			2.44- 62.44	33.08
1.870	1.870 (0.324)	58	16429			0.00- 33.36	2.70
15 Chloromethane					CAS #: 74-87-3		
1.940	1.954 (0.336)	50	369114	61.4693	61.469	80.00- 120.00	100.00
1.940	1.954 (0.336)	52	94124			0.00- 56.26	25.50
18 Butane					CAS #: 106-97-8		
2.032	2.039 (0.352)	58	59880	43.0480	43.048	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
18 Butane (continued)							
2.032	2.039 (0.352)	43	571140			823.29- 883.29	953.81
19 Vinyl Chloride					CAS #: 75-01-4		
2.068	2.075 (0.358)	62	335686	46.4683	46.468	80.00- 120.00	100.00
2.068	2.075 (0.358)	64	93563			0.00- 59.69	27.87
20 1,3-Butadiene					CAS #: 106-99-0		
2.096	2.103 (0.363)	54	317882	54.7113	54.711	80.00- 120.00	100.00
2.089	2.103 (0.362)	39	295312			52.37- 112.37	92.90
24 Bromomethane					CAS #: 74-83-9		
2.483	2.490 (0.430)	94	195386	42.0637	42.064	80.00- 120.00	100.00
2.483	2.490 (0.430)	96	182922			64.07- 124.07	93.62
30 Chloroethane					CAS #: 75-00-3		
2.612	2.612 (0.452)	64	111196	42.8060	42.806	80.00- 120.00	100.00
2.612	2.612 (0.452)	66	31025			0.04- 60.04	27.90
2.612	2.612 (0.452)	49	50241			4.54- 64.54	45.18
31 Isopentane					CAS #: 78-78-4		
2.633	2.641 (0.456)	43	423135	53.5323	53.532	80.00- 120.00	100.00
2.641	2.641 (0.457)	57	242706			34.12- 94.12	57.36
32 Vinyl Bromide					CAS #: 593-60-2		
2.848	2.848 (0.493)	106	178070	41.4749	41.475	80.00- 120.00	100.00
2.841	2.848 (0.492)	108	178860			69.27- 129.27	100.44
33 Freon 11					CAS #: 75-69-4		
2.891	2.891 (0.500)	101	598948	54.4537	54.454	80.00- 120.00	100.00
2.891	2.891 (0.500)	103	392127			34.72- 94.72	65.47
34 Dichlorofluoromethane					CAS #: 75-43-4		
2.898	2.906 (0.502)	67	424864	44.8162	44.816	80.00- 120.00	100.00
2.898	2.906 (0.502)	69	133904			0.84- 60.84	31.52
35 Pentane					CAS #: 109-66-0		
2.970	2.970 (0.514)	43	658058	51.2193	51.219	80.00- 120.00	100.00
2.970	2.970 (0.514)	57	84539			0.00- 44.98	12.85
2.970	2.970 (0.514)	72	36001			0.00- 37.39	5.47
38 Ethyl Ether					CAS #: 60-29-7		
3.285	3.285 (0.569)	74	87219	40.2384	40.238	80.00- 120.00	100.00
3.285	3.285 (0.569)	59	194500			163.46- 223.46	223.00
3.285	3.285 (0.569)	45	341061			250.40- 310.40	391.04

					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE		(PPBV)	(PPBV)	TARGET RANGE	RATIO
39 Ethanol						CAS #: 64-17-5		
3.242	3.242 (0.561)	46	59528	52.0138		52.014	80.00- 120.00	100.00
3.285	3.285 (0.569)	45	339109				511.19- 571.19	569.66
42 Acrolein						CAS #: 107-02-8		
3.536	3.543 (0.612)	55	89578	45.1071		45.107	80.00- 120.00	100.00
3.536	3.543 (0.612)	56	124621				111.10- 171.10	139.12
43 Freon 113						CAS #: 76-13-1		
3.550	3.550 (0.614)	151	403562	49.3830		49.383	80.00- 120.00	100.00
3.550	3.558 (0.614)	153	257467				33.56- 93.56	63.80
3.550	3.550 (0.614)	101	477049				89.21- 149.21	118.21
44 1,1-Dichloroethene						CAS #: 75-35-4		
3.579	3.586 (0.619)	96	211189	43.2593		43.259	80.00- 120.00	100.00
3.579	3.586 (0.619)	98	132753				34.02- 94.02	62.86
3.579	3.586 (0.619)	61	471855				168.77- 228.77	223.43
47 Acetone						CAS #: 67-64-1		
3.715	3.722 (0.643)	58	145185	47.9876		47.988	80.00- 120.00	100.00
3.715	3.722 (0.643)	43	572251				302.95- 362.95	394.15
48 Carbon Disulfide						CAS #: 75-15-0		
3.823	3.830 (0.662)	76	537462	41.7879		41.788	80.00- 120.00	100.00
49 Iodomethane						CAS #: 74-88-4		
3.794	3.794 (0.657)	142	492724	57.6292		57.629	80.00- 120.00	100.00
3.794	3.794 (0.657)	127	244277				12.22- 72.22	49.58
52 2-Propanol						CAS #: 67-63-0		
3.887	3.894 (0.673)	45	678473	55.6418		55.642	80.00- 120.00	100.00
3.887	3.894 (0.673)	43	131639				0.00- 47.19	19.40
54 3-Chloropropene						CAS #: 107-05-1		
4.052	4.052 (0.701)	76	87930	40.9230		40.923	80.00- 120.00	100.00
4.052	4.052 (0.701)	41	472551				396.19- 456.19	537.42
57 Acetonitrile						CAS #: 75-05-8		
4.123	4.131 (0.714)	41	321387	56.5505		56.550	80.00- 120.00	100.00
4.123	4.131 (0.714)	40	160682				20.95- 80.95	50.00
4.123	4.131 (0.714)	38	34357				0.00- 41.17	10.69
59 Methylene Chloride						CAS #: 75-09-2		
4.238	4.238 (0.733)	49	456202	58.0525		58.052	80.00- 120.00	100.00
4.238	4.238 (0.733)	84	176325				22.03- 82.03	38.65
4.238	4.238 (0.733)	51	133001				0.18- 60.18	29.15

				CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
62 tert-Butyl alcohol					CAS #: 75-65-0		
4.338	4.346 (0.751)	59	657987	46.2731	46.273	80.00- 120.00	100.00
4.338	4.338 (0.751)	41	165235			0.00- 51.11	25.11
4.345	4.346 (0.752)	57	76042			0.00- 40.49	11.56
63 Methyl tert-butyl ether					CAS #: 1634-04-4		
4.446	4.446 (0.769)	73	615238	43.4105	43.410	80.00- 120.00	100.00
4.446	4.446 (0.769)	57	227498			3.10- 63.10	36.98
4.446	4.446 (0.769)	41	251455			1.28- 61.28	40.87
64 trans-1,2-Dichloroethene					CAS #: 156-60-5		
4.482	4.482 (0.776)	98	144346	44.2508	44.251	80.00- 120.00	100.00
4.482	4.482 (0.776)	61	441216			255.84- 315.84	305.67
4.482	4.482 (0.776)	96	228531			127.59- 187.59	158.32
66 Acrylonitrile					CAS #: 107-13-1		
4.560	4.568 (0.789)	52	245585	54.0831	54.083	80.00- 120.00	100.00
4.560	4.568 (0.789)	53	286733			88.05- 148.05	116.76
67 Hexane					CAS #: 110-54-3		
4.696	4.697 (0.813)	57	547652	48.1718	48.172	80.00- 120.00	100.00
4.696	4.697 (0.813)	43	420088			37.52- 97.52	76.71
4.696	4.697 (0.813)	86	55605			0.00- 41.48	10.15
71 1,1-Dichloroethane					CAS #: 75-34-3		
4.969	4.969 (0.860)	63	466469	47.7281	47.728	80.00- 120.00	100.00
4.969	4.969 (0.860)	65	134806			0.00- 59.70	28.90
72 Isopropyl ether					CAS #: 108-20-3		
4.947	4.947 (0.856)	45	1472221	55.6803	55.680	80.00- 120.00	100.00
4.947	4.954 (0.856)	87	200243			0.00- 48.18	13.60
4.947	4.947 (0.856)	59	130172			0.00- 40.15	8.84
73 Vinyl Acetate					CAS #: 108-05-4		
4.997	4.997 (0.865)	86	52778	42.0189	42.019	80.00- 120.00	100.00
4.990	4.997 (0.864)	43	1259608			2432.48-2492.48	2386.62
79 Ethyl-tert-butyl ether					CAS #: 637-92-3		
5.305	5.305 (0.918)	59	1083503	47.3400	47.340	80.00- 120.00	100.00
5.305	5.305 (0.918)	87	309492			1.00- 61.00	28.56
5.305	5.305 (0.918)	41	254959			0.00- 48.73	23.53
84 2,2-Dichloropropane					CAS #: 594-20-7		
5.513	5.513 (0.954)	77	437288	50.3855	50.385	80.00- 120.00	100.00
5.513	5.513 (0.954)	79	138292			2.28- 62.28	31.62
5.513	5.513 (0.954)	97	101081			0.00- 53.93	23.12

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
85 cis-1,2-Dichloroethene					CAS #: 156-59-2		
5.549	5.549 (0.960)	98	158606	46.8533	46.853	80.00- 120.00	100.00
5.549	5.549 (0.960)	96	237816			125.75- 185.75	149.94
5.549	5.549 (0.960)	61	598482			332.40- 392.40	377.34
86 2-Butanone					CAS #: 78-93-3		
5.556	5.556 (0.962)	72	105653	40.5041	40.504	80.00- 120.00	100.00
5.563	5.563 (0.963)	43	1853265			1214.50-1274.50	1754.11
5.556	5.556 (0.962)	57	58075			14.68- 74.68	54.97
87 Ethyl Acetate					CAS #: 141-78-6		
5.570	5.570 (0.964)	45	150050	57.8330	57.833	80.00- 120.00	100.00
5.549	5.549 (0.960)	61	598482			452.04- 512.04	398.86
5.577	5.578 (0.965)	70	52935			22.77- 82.77	35.28
89 Tetrahydrofuran					CAS #: 109-99-9		
5.778	5.778 (1.000)	42	481041	55.4505	55.450	80.00- 120.00	100.00
5.778	5.778 (1.000)	71	91647			0.00- 55.82	19.05
5.778	5.778 (1.000)	72	102655			0.00- 57.59	21.34
92 Chloroform					CAS #: 67-66-3		
5.843	5.843 (1.011)	83	506683	50.4607	50.461	80.00- 120.00	100.00
5.843	5.843 (1.011)	85	325195			34.70- 94.70	64.18
94 Cyclohexane					CAS #: 110-82-7		
5.957	5.957 (1.031)	84	310997	42.8404	42.840	80.00- 120.00	100.00
5.957	5.957 (1.031)	56	616373			142.57- 202.57	198.19
5.957	5.957 (1.031)	41	380970			62.09- 122.09	122.50
96 1,1,1-Trichloroethane					CAS #: 71-55-6		
5.971	5.972 (1.033)	97	590455	52.0524	52.052	80.00- 120.00	100.00
5.971	5.972 (1.033)	99	377354			34.02- 94.02	63.91
97 Carbon Tetrachloride					CAS #: 56-23-5		
6.093	6.093 (1.055)	119	617003	57.9949	57.995	80.00- 120.00	100.00
6.093	6.093 (1.055)	117	616097			70.64- 130.64	99.85
99 1,1-Dichloropropene					CAS #: 563-58-6		
6.122	6.122 (0.919)	110	135675	47.3131	47.313	80.00- 120.00	100.00
6.115	6.115 (0.918)	75	344269			226.85- 286.85	253.75
101 2,2,4-Trimethylpentane					CAS #: 540-84-1		
6.279	6.280 (1.087)	57	1971142	49.8837	49.884	80.00- 120.00	100.00
6.279	6.280 (1.087)	56	670583			2.24- 62.24	34.02
6.279	6.280 (1.087)	41	569044			0.00- 54.39	28.87

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
102 Benzene					CAS #: 71-43-2		
6.301	6.301 (0.946)	78	651006	46.8285	46.828	80.00- 120.00	100.00
6.301	6.301 (0.946)	77	149874			0.00- 52.90	23.02
105 tert-Amyl methyl ether					CAS #: 994-05-8		
6.358	6.358 (0.955)	87	189248	48.2779	48.278	80.00- 120.00	100.00
6.358	6.358 (0.955)	73	738201			372.79- 432.79	390.07
6.358	6.358 (0.955)	55	312603			112.09- 172.09	165.18
106 1,2-Dichloroethane					CAS #: 107-06-2		
6.380	6.380 (0.958)	62	436648	60.3628	60.363	80.00- 120.00	100.00
6.380	6.380 (0.958)	64	131371			0.79- 60.79	30.09
107 Heptane					CAS #: 142-82-5		
6.444	6.444 (0.968)	71	246188	44.7017	44.702	80.00- 120.00	100.00
6.444	6.444 (0.968)	43	853101			226.53- 286.53	346.52
6.444	6.444 (0.968)	57	388045			100.85- 160.85	157.62
110 n-Butanol					CAS #: 71-36-3		
6.810	6.810 (1.023)	56	289326	57.2434	57.243	80.00- 120.00	100.00
6.810	6.810 (1.023)	41	230757			40.99- 100.99	79.76
6.810	6.810 (1.023)	43	188927			27.38- 87.38	65.30
111 Trichloroethene					CAS #: 79-01-6		
6.867	6.867 (1.031)	95	346687	51.3931	51.393	80.00- 120.00	100.00
6.867	6.867 (1.031)	130	381170			76.29- 136.29	109.95
6.867	6.867 (1.031)	97	219049			33.63- 93.63	63.18
114 1,2-Dichloropropane					CAS #: 78-87-5		
7.096	7.096 (1.066)	63	356282	49.9897	49.990	80.00- 120.00	100.00
7.096	7.096 (1.066)	62	258296			41.07- 101.07	72.50
7.096	7.096 (1.066)	41	220014			22.53- 82.53	61.75
116 Methyl Methacrylate					CAS #: 80-62-6		
7.139	7.139 (0.755)	69	258702	46.0713	46.071	80.00- 120.00	100.00
7.139	7.139 (0.755)	41	700310			179.84- 239.84	270.70
7.139	7.139 (0.755)	100	106810			9.59- 69.59	41.29
117 1,4-Dioxane					CAS #: 123-91-1		
7.175	7.175 (1.077)	88	174550	46.0834	46.083	80.00- 120.00	100.00
7.175	7.175 (1.077)	58	192670			68.28- 128.28	110.38
7.175	7.175 (1.077)	57	69578			2.68- 62.68	39.86
118 Dibromomethane					CAS #: 74-95-3		
7.211	7.211 (0.762)	174	339032	55.9053	55.905	80.00- 120.00	100.00
7.203	7.204 (0.761)	93	308923			60.09- 120.09	91.12

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
118 Dibromomethane (continued)							
7.203	7.204 (0.761)	95	265718			48.38- 108.38	78.38
122 Bromodichloromethane					CAS #: 75-27-4		
7.318	7.318 (1.099)	83	573864	54.8659	54.866	80.00- 120.00	100.00
7.318	7.318 (1.099)	85	370819			35.24- 95.24	64.62
126 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.698	7.698 (1.156)	75	429940	48.6555	48.655	80.00- 120.00	100.00
7.698	7.698 (1.156)	77	135432			2.42- 62.42	31.50
7.691	7.698 (1.155)	39	356283			37.16- 97.16	82.87
127 Methylcyclohexane					CAS #: 108-87-2		
6.974	6.974 (1.047)	83	450938	46.1944	46.194	80.00- 120.00	100.00
6.974	6.974 (1.047)	98	217565			15.78- 75.78	48.25
6.974	6.974 (1.047)	55	598153			84.64- 144.64	132.65
131 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.798	7.798 (1.171)	58	375981	51.9485	51.948	80.00- 120.00	100.00
7.798	7.798 (1.171)	43	1192097			242.35- 302.35	317.06
7.798	7.798 (1.171)	85	108238			3.24- 63.24	28.79
137 Toluene					CAS #: 108-88-3		
7.948	7.956 (1.194)	91	913130	47.6084	47.608	80.00- 120.00	100.00
7.948	7.956 (1.194)	92	533619			28.38- 88.38	58.44
136 Octane					CAS #: 111-65-9		
7.948	7.949 (1.194)	57	429628	52.5340	52.534	80.00- 120.00	100.00
7.948	7.949 (1.194)	85	314182			56.00- 116.00	73.13
7.948	7.949 (1.194)	43	1281758			228.66- 288.66	298.34
139 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
8.213	8.214 (0.868)	75	417943	51.9686	51.968	80.00- 120.00	100.00
8.213	8.214 (0.868)	77	132132			1.24- 61.24	31.61
8.213	8.214 (0.868)	39	327731			34.11- 94.11	78.42
141 1,1,2-Trichloroethane					CAS #: 79-00-5		
8.400	8.400 (0.888)	97	342305	51.4953	51.495	80.00- 120.00	100.00
8.400	8.400 (0.888)	99	210689			31.96- 91.96	61.55
8.400	8.400 (0.888)	83	283720			52.93- 112.93	82.89
142 Tetrachloroethene					CAS #: 127-18-4		
8.464	8.464 (0.895)	166	497777	53.4441	53.444	80.00- 120.00	100.00
8.464	8.464 (0.895)	129	388759			47.84- 107.84	78.10
8.464	8.464 (0.895)	131	375889			45.29- 105.29	75.51

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
143 2-Hexanone					CAS #: 591-78-6		
8.586	8.586 (0.908)	58	511443	53.8527	53.853	80.00- 120.00	100.00
8.586	8.586 (0.908)	43	1156054			162.87- 222.87	226.04
8.586	8.586 (0.908)	100	69942			0.00- 45.94	13.68
144 1,3-Dichloropropane					CAS #: 142-28-9		
8.579	8.579 (1.288)	76	445581	48.9204	48.920	80.00- 120.00	100.00
8.579	8.579 (1.288)	41	697145			94.99- 154.99	156.46
8.579	8.579 (1.288)	78	144126			2.05- 62.05	32.35
146 Dibromochloromethane					CAS #: 124-48-1		
8.801	8.801 (0.930)	129	700077	56.3667	56.367	80.00- 120.00	100.00
8.801	8.801 (0.930)	127	547291			47.45- 107.45	78.18
148 1,2-Dibromoethane (EDB)					CAS #: 106-93-4		
8.951	8.951 (0.946)	107	568528	53.3260	53.326	80.00- 120.00	100.00
8.951	8.951 (0.946)	109	533931			64.21- 124.21	93.91
151 1-Bromo-2-Chloroethane					CAS #: 107-04-0		
7.605	7.605 (1.142)	63	655200	50.1035	50.103	80.00- 120.00	100.00
7.605	7.605 (1.142)	65	187652			0.00- 59.64	28.64
7.605	7.612 (1.142)	144	65474			0.00- 39.63	9.99
154 Chlorobenzene					CAS #: 108-90-7		
9.496	9.496 (1.004)	112	825133	50.8473	50.847	80.00- 120.00	100.00
9.496	9.496 (1.004)	114	266769			1.74- 61.74	32.33
9.496	9.496 (1.004)	77	425313			25.04- 85.04	51.54
155 Ethyl Benzene					CAS #: 100-41-4		
9.567	9.567 (1.011)	106	424486	50.0249	50.025	80.00- 120.00	100.00
9.567	9.567 (1.011)	91	1246276			273.74- 333.74	293.60
156 Nonane					CAS #: 111-84-2		
9.596	9.603 (1.014)	43	1357734	62.1895	62.190	80.00- 120.00	100.00
9.603	9.603 (1.015)	57	982407			54.16- 114.16	72.36
9.603	9.603 (1.015)	85	248518			0.00- 53.90	18.30
157 1,1,1,2-Tetrachloroethane					CAS #: 630-20-6		
9.596	9.596 (1.014)	131	421084	46.3461	46.346	80.00- 120.00	100.00
9.460	9.460 (1.000)	117	408672			57.42- 117.42	97.05
9.596	9.596 (1.014)	95	151820			5.70- 65.70	36.05
158 m,p-Xylene					CAS #: 108-38-3		
9.718	9.718 (1.027)	106	529796	49.8510	49.851	80.00- 120.00	100.00
9.718	9.718 (1.027)	91	1012132			163.73- 223.73	191.04

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
164 o-Xylene					CAS #: 95-47-6		
10.226	10.226 (1.081)	106	502055	49.3060	49.306	80.00- 120.00	100.00
10.226	10.226 (1.081)	91	1004006			177.45- 237.45	199.98
165 Styrene					CAS #: 100-42-5		
10.255	10.255 (1.084)	104	830312	47.6809	47.681	80.00- 120.00	100.00
10.255	10.255 (1.084)	78	394301			17.88- 77.88	47.49
167 Bromoform					CAS #: 75-25-2		
10.541	10.549 (1.114)	173	697803	56.9992	56.999	80.00- 120.00	100.00
10.541	10.542 (1.114)	171	357168			21.25- 81.25	51.18
168 Cumene					CAS #: 98-82-8		
10.649	10.649 (1.126)	105	1580991	49.4269	49.427	80.00- 120.00	100.00
10.649	10.649 (1.126)	120	464736			0.00- 58.52	29.40
10.649	10.649 (1.126)	51	257536			0.00- 43.00	16.29
169 Cyclohexanone					CAS #: 108-94-1		
10.871	10.871 (1.149)	55	678151	59.2829	59.283	80.00- 120.00	100.00
10.871	10.871 (1.149)	98	185394			1.94- 61.94	27.34
10.871	10.871 (1.149)	42	478995			37.89- 97.89	70.63
175 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
11.100	11.107 (1.173)	83	795520	50.9554	50.955	80.00- 120.00	100.00
11.100	11.107 (1.173)	85	516415			35.20- 95.20	64.92
177 Bromobenzene					CAS #: 108-86-1		
11.107	11.107 (1.174)	156	534640	54.9569	54.957	80.00- 120.00	100.00
11.107	11.107 (1.174)	158	519589			67.21- 127.21	97.18
11.179	11.179 (1.182)	77	317261			29.02- 89.02	59.34
178 Propylbenzene					CAS #: 103-65-1		
11.150	11.150 (1.179)	120	494688	52.1584	52.158	80.00- 120.00	100.00
11.150	11.150 (1.179)	91	1899244			366.49- 426.49	383.93
11.150	11.150 (1.179)	105	71929			0.00- 44.85	14.54
179 1,2,3-Trichloropropane					CAS #: 96-18-4		
11.179	11.179 (1.182)	110	268817	54.0233	54.023	80.00- 120.00	100.00
11.179	11.179 (1.182)	75	828113			280.55- 340.55	308.06
11.100	11.100 (1.173)	61	132558			15.49- 75.49	49.31
181 trans-1,4-Dichloro-2-butene					CAS #: 110-57-6		
11.179	11.179 (1.182)	53	286102	87.7068	87.707	80.00- 120.00	100.00(R)
11.179	11.158 (1.182)	89	173508			49.11- 109.11	60.65
11.179	11.179 (1.182)	75	828113			426.44- 486.44	289.45

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
182 Decane					CAS #: 124-18-5		
11.251	11.251 (1.189)	57	1363509	54.8023	54.802	80.00- 120.00	100.00
11.251	11.258 (1.189)	71	324360			0.00- 57.66	23.79
11.258	11.258 (1.190)	142	51881			0.00- 34.09	3.80
183 4-Ethyltoluene					CAS #: 622-96-8		
11.286	11.287 (1.193)	120	539623	52.3183	52.318	80.00- 120.00	100.00
11.286	11.287 (1.193)	105	1660952			284.55- 344.55	307.80
184 2-Chlorotoluene					CAS #: 95-49-8		
11.308	11.308 (1.195)	126	435300	53.9031	53.903	80.00- 120.00	100.00
11.308	11.308 (1.195)	91	1420743			315.17- 375.17	326.38
11.301	11.301 (1.195)	65	211858			21.55- 81.55	48.67
185 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
11.365	11.365 (1.201)	120	748411	52.7026	52.702	80.00- 120.00	100.00
11.365	11.365 (1.201)	105	1418980			164.93- 224.93	189.60
188 alpha Methyl Styrene					CAS #: 98-83-9		
11.645	11.645 (1.231)	118	732809	51.9454	51.945	80.00- 120.00	100.00
11.645	11.645 (1.231)	103	402360			25.30- 85.30	54.91
189 tert-Butylbenzene					CAS #: 98-06-6		
11.738	11.745 (1.241)	119	1434490	54.0085	54.008	80.00- 120.00	100.00
11.738	11.745 (1.241)	134	352363			0.00- 54.25	24.56
11.738	11.745 (1.241)	91	856654			31.27- 91.27	59.72
190 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
11.816	11.817 (1.249)	105	1415816	52.8217	52.822	80.00- 120.00	100.00
11.816	11.817 (1.249)	120	714726			19.05- 79.05	50.48
192 sec-Butylbenzene					CAS #: 135-98-8		
11.996	12.003 (1.268)	134	459812	55.7002	55.700	80.00- 120.00	100.00
11.996	11.996 (1.268)	105	2063003			437.55- 497.55	448.66
11.996	11.996 (1.268)	91	315573			40.76- 100.76	68.63
194 p-Cymene					CAS #: 99-87-6		
12.160	12.160 (1.285)	119	1979182	54.2438	54.244	80.00- 120.00	100.00
12.160	12.160 (1.285)	134	515699			0.00- 55.54	26.06
12.160	12.160 (1.285)	91	414931			0.00- 51.48	20.96
195 1,3-Dichlorobenzene					CAS #: 541-73-1		
12.203	12.203 (1.290)	146	1027939	56.0298	56.030	80.00- 120.00	100.00
12.203	12.203 (1.290)	148	658822			33.21- 93.21	64.09
12.196	12.196 (1.289)	111	403040			11.31- 71.31	39.21

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
196 1,4-Dichlorobenzene					CAS #: 106-46-7		
12.311	12.311 (1.301)	146	1040296	56.1118	56.112	80.00- 120.00	100.00
12.311	12.311 (1.301)	148	659374			33.90- 93.90	63.38
12.311	12.311 (1.301)	111	395570			9.45- 69.45	38.02
199 alpha-Chlorotoluene					CAS #: 100-44-7		
12.461	12.461 (1.317)	91	1350693	53.0538	53.054	80.00- 120.00	100.00
12.461	12.461 (1.317)	126	329792			0.00- 53.26	24.42
201 Undecane					CAS #: 1120-21-4		
12.640	12.640 (1.336)	57	1639192	57.0364	57.036	80.00- 120.00	100.00
12.640	12.640 (1.336)	43	1667684			58.12- 118.12	101.74
202 Butylbenzene					CAS #: 104-51-8		
12.626	12.626 (1.335)	134	499860	53.9400	53.940	80.00- 120.00	100.00
12.626	12.626 (1.335)	91	1669899			314.79- 374.79	334.07
12.626	12.626 (1.335)	92	884408			154.29- 214.29	176.93
204 1,2-Dichlorobenzene					CAS #: 95-50-1		
12.741	12.733 (1.347)	146	995782	55.3541	55.354	80.00- 120.00	100.00
12.741	12.733 (1.347)	148	634411			33.84- 93.84	63.71
12.733	12.733 (1.346)	111	410503			12.73- 72.73	41.22
206 1,2-Dibromo-3-chloropropane					CAS #: 96-12-8		
13.600	13.600 (1.438)	157	610249	56.0086	56.009	80.00- 120.00	100.00
13.600	13.600 (1.438)	75	499488			52.48- 112.48	81.85
13.600	13.600 (1.438)	155	472482			47.41- 107.41	77.42
207 Dodecane					CAS #: 112-40-3		
13.801	13.801 (1.459)	57	1486749	65.2667	65.267	80.00- 120.00	100.00(R)
13.801	13.801 (1.459)	43	1412968			52.87- 112.87	95.04
213 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
14.467	14.467 (1.529)	180	901466	67.8243	67.824	80.00- 120.00	100.00
14.467	14.467 (1.529)	182	869155			65.33- 125.33	96.42
215 Hexachlorobutadiene					CAS #: 87-68-3		
14.581	14.582 (1.541)	225	677419	72.4205	72.420	80.00- 120.00	100.00
14.581	14.582 (1.541)	223	428042			33.17- 93.17	63.19
216 Naphthalene					CAS #: 91-20-3		
14.768	14.768 (1.561)	128	205587	6.05234	6.052	80.00- 120.00	100.00
14.768	14.768 (1.561)	127	26770			0.00- 42.88	13.02
222 1,2,3-Trichlorobenzene					CAS #: 87-61-6		
15.069	15.069 (1.593)	180	817105	69.5428	69.543	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
222 1,2,3-Trichlorobenzene (continued)							
15.069	15.069 (1.593)	182	774163			65.75- 125.75	94.74
15.069	15.069 (1.593)	145	277557			5.23- 65.23	33.97

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p082003.d
Lab Smp Id: LCS
Analysis Type: VOA
Quant Type: ISTD
Operator: LD
Method File: /chem/msdp.i/20AUG21.b/p21q0519a.m
Misc Info: 50ppbv (200ppbv)

Calibration Date: 20-AUG-2021
Calibration Time: 11:13
Client Smp ID: LCS
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	109375	65625	153125	115405	5.51
108 1,4-Difluorobenze	406799	244079	569519	421276	3.56
153 Chlorobenzene-d5	400841	240505	561177	408672	1.95

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.79	5.46	6.12	5.78	-0.13
108 1,4-Difluorobenze	6.66	6.33	6.99	6.66	-0.00
153 Chlorobenzene-d5	9.46	9.13	9.79	9.46	-0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

US32TAR1

RECOVERY REPORT

Client Name: Client SDG: 20AUG21
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: LCS Client Smp ID: LCS
Level: LOW Operator: LD
Data Type: MS DATA SampleType: LCS
SpikeList File: AT20_new.spk Quant Type: ISTD
Sublist File: AT20LCS_new.sub
Method File: /chem/msdp.i/20AUG21.b/p21q0519a.m
Misc Info: 50ppbv (200ppbv)

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
4 Freon 134a	50.000	59.923	119.85	70-130
5 Propylene	50.000	53.104	106.21	70-130
7 1,1-Difluoroethan	50.000	46.711	93.42	70-130
8 Freon 12	50.000	53.094	106.19	70-130
9 Chlorodifluoromet	50.000	56.381	112.76	70-130
10 Freon 114	50.000	50.823	101.65	70-130
12 Isobutane	50.000	52.004	104.01	70-130
15 Chloromethane	50.000	61.469	122.94	70-130
18 Butane	50.000	43.048	86.10	70-130
19 Vinyl Chloride	50.000	46.468	92.94	70-130
20 1,3-Butadiene	50.000	54.711	109.42	70-130
24 Bromomethane	50.000	42.064	84.13	70-130
30 Chloroethane	50.000	42.806	85.61	70-130
31 Isopentane	50.000	53.532	107.06	70-130
32 Vinyl Bromide	50.000	41.475	82.95	70-130
33 Freon 11	50.000	54.454	108.91	70-130
34 Dichlorofluoromet	50.000	44.816	89.63	70-130
35 Pentane	50.000	51.219	102.44	70-130
38 Ethyl Ether	50.000	40.238	80.48	70-130
39 Ethanol	58.000	52.014	89.68	70-130
42 Acrolein	58.000	45.107	77.77	70-130
43 Freon 113	50.000	49.383	98.77	70-130
44 1,1-Dichloroethen	50.000	43.259	86.52	70-130
47 Acetone	50.000	47.988	95.98	70-130
48 Carbon Disulfide	50.000	41.788	83.58	70-130
49 Iodomethane	50.000	57.629	115.26	70-130
52 2-Propanol	50.000	55.642	111.28	70-130
54 3-Chloropropene	50.000	40.923	81.85	70-130
57 Acetonitrile	50.000	56.550	113.10	70-130
59 Methylene Chlorid	50.000	58.052	116.10	70-130
62 tert-Butyl alcoho	50.000	46.273	92.55	70-130
63 Methyl tert-butyl	50.000	43.410	86.82	70-130
64 trans-1,2-Dichlor	50.000	44.251	88.50	70-130

	SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
66	Acrylonitrile	50.000	54.083	108.17	70-130
67	Hexane	50.000	48.172	96.34	70-130
71	1,1-Dichloroethan	50.000	47.728	95.46	70-130
72	Isopropyl ether	50.000	55.680	111.36	70-130
73	Vinyl Acetate	50.000	42.019	84.04	70-130
79	Ethyl-tert-butyl	50.000	47.340	94.68	70-130
84	2,2-Dichloropropa	50.000	50.385	100.77	70-130
85	cis-1,2-Dichloroe	50.000	46.853	93.71	70-130
86	2-Butanone	50.000	40.504	81.01	70-130
87	Ethyl Acetate	50.000	57.833	115.67	70-130
89	Tetrahydrofuran	50.000	55.450	110.90	70-130
92	Chloroform	50.000	50.461	100.92	70-130
94	Cyclohexane	50.000	42.840	85.68	70-130
96	1,1,1-Trichloroet	50.000	52.052	104.10	70-130
99	1,1-Dichloroprope	50.000	47.313	94.63	70-130
97	Carbon Tetrachlor	50.000	57.995	115.99	70-130
101	2,2,4-Trimethylpe	50.000	49.884	99.77	70-130
102	Benzene	50.000	46.828	93.66	70-130
105	tert-Amyl methyl	50.000	48.278	96.56	70-130
106	1,2-Dichloroethan	50.000	60.363	120.73	70-130
107	Heptane	50.000	44.702	89.40	70-130
110	n-Butanol	50.000	57.243	114.49	70-130
111	Trichloroethene	50.000	51.393	102.79	70-130
118	Dibromomethane	50.000	55.905	111.81	70-130
127	Methylcyclohexane	50.000	46.194	92.39	70-130
114	1,2-Dichloropropa	50.000	49.990	99.98	70-130
116	Methyl Methacryla	50.000	46.071	92.14	70-130
117	1,4-Dioxane	50.000	46.083	92.17	70-130
122	Bromodichlorometh	50.000	54.866	109.73	70-130
126	cis-1,3-Dichlorop	50.000	48.655	97.31	70-130
131	4-Methyl-2-pentan	50.000	51.948	103.90	70-130
136	Octane	50.000	52.534	105.07	70-130
137	Toluene	50.000	47.608	95.22	70-130
139	trans-1,3-Dichlor	50.000	51.968	103.94	70-130
141	1,1,2-Trichloroet	50.000	51.495	102.99	70-130
142	Tetrachloroethene	50.000	53.444	106.89	70-130
143	2-Hexanone	50.000	53.853	107.71	70-130
144	1,3-Dichloropropa	50.000	48.920	97.84	70-130
146	Dibromochlorometh	50.000	56.367	112.73	70-130
148	1,2-Dibromoethane	50.000	53.326	106.65	70-130
151	1-Bromo-2-Chloroe	50.000	50.103	100.21	70-130
154	Chlorobenzene	50.000	50.847	101.69	70-130
155	Ethyl Benzene	50.000	50.025	100.05	70-130
156	Nonane	50.000	62.190	124.38	70-130
157	1,1,1,2-Tetrachlo	50.000	46.346	92.69	70-130
158	m,p-Xylene	50.000	49.851	99.70	70-130
164	o-Xylene	50.000	49.306	98.61	70-130

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
165 Styrene	50.000	47.681	95.36	70-130
167 Bromoform	50.000	56.999	114.00	70-130
168 Cumene	50.000	49.427	98.85	70-130
169 Cyclohexanone	50.000	59.283	118.57	70-130
175 1,1,2,2-Tetrachlo	50.000	50.955	101.91	70-130
177 Bromobenzene	50.000	54.957	109.91	70-130
178 Propylbenzene	50.000	52.158	104.32	70-130
179 1,2,3-Trichloropr	50.000	54.023	108.05	70-130
181 trans-1,4-Dichlor	50.000	87.707	175.41*	70-130
182 Decane	50.000	54.802	109.60	70-130
183 4-Ethyltoluene	50.000	52.318	104.64	70-130
184 2-Chlorotoluene	50.000	53.903	107.81	70-130
185 1,3,5-Trimethylbe	50.000	52.702	105.41	70-130
188 alpha Methyl Styr	50.000	51.945	103.89	70-130
189 tert-Butylbenzene	50.000	54.008	108.02	70-130
190 1,2,4-Trimethylbe	50.000	52.822	105.64	70-130
192 sec-Butylbenzene	50.000	55.700	111.40	70-130
194 p-Cymene	50.000	54.244	108.49	70-130
195 1,3-Dichlorobenze	50.000	56.030	112.06	70-130
196 1,4-Dichlorobenze	50.000	56.112	112.22	70-130
199 alpha-Chlorotolue	50.000	53.054	106.11	70-130
201 Undecane	50.000	57.036	114.07	70-130
202 Butylbenzene	50.000	53.940	107.88	70-130
204 1,2-Dichlorobenze	50.000	55.354	110.71	70-130
206 1,2-Dibromo-3-chl	50.000	56.009	112.02	70-130
207 Dodecane	50.000	65.267	130.53*	70-130
213 1,2,4-Trichlorobe	58.000	67.824	116.94	70-130
215 Hexachlorobutadie	58.000	72.420	124.86	70-130
216 Naphthalene	5.800	6.052	104.35	60-140
222 1,2,3-Trichlorobe	58.000	69.543	119.90	70-130

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 104 1,2-Dichloroethan	25.000	27.827	111.31	70-130
$ 134 Toluene-d8	25.000	24.357	97.43	70-130
$ 170 4-Bromofluorobenz	25.000	27.661	110.64	70-130

Data File: /chem/msdp.i/20AUG21.b/p082003.d

Page 1

Date : 20-AUG-2021 11:40

Client ID: LCS

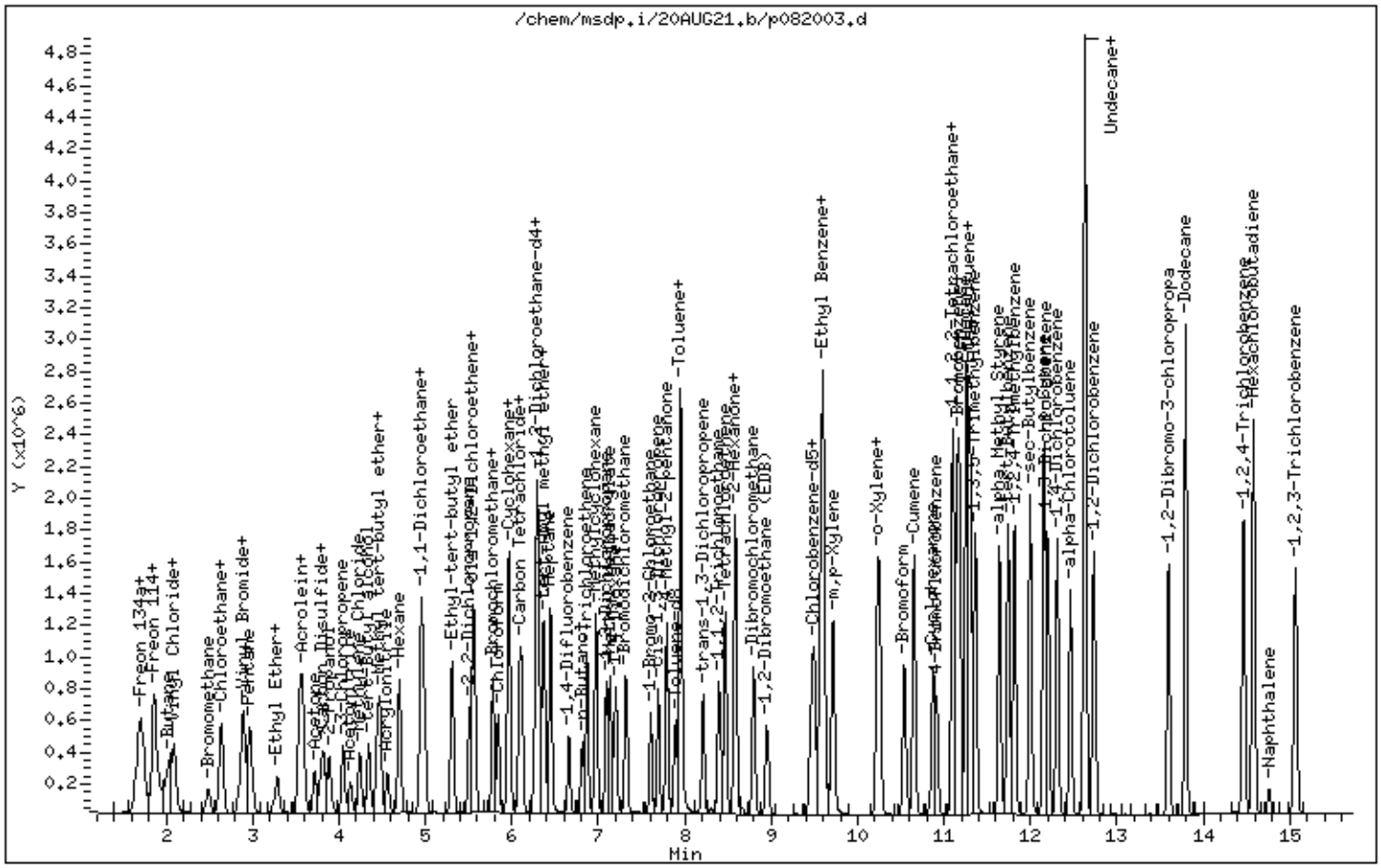
Instrument: msdp.i

Sample Info: 50mL 3018-2173

Operator: LD

Column phase: RTX-624

Column diameter: 0.25



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Client Sample ID: LCSD

Lab ID#: 2108390-29AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p082004**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/20/21 12:08 PM**	

Compound	%Recovery	Method Limits
1,1,1-Trichloroethane	100	70-130
1,1,2,2-Tetrachloroethane	102	70-130
1,1,2-Trichloroethane	102	70-130
1,1-Dichloroethane	95	70-130
1,1-Dichloroethene	87	70-130
1,2,4-Trichlorobenzene	130	70-130
1,2,4-Trimethylbenzene	106	70-130
1,2-Dibromoethane (EDB)	106	70-130
1,2-Dichlorobenzene	110	70-130
1,2-Dichloroethane	118	70-130
1,2-Dichloropropane	98	70-130
1,3,5-Trimethylbenzene	106	70-130
1,3-Butadiene	110	70-130
1,3-Dichlorobenzene	111	70-130
1,4-Dichlorobenzene	111	70-130
1,4-Dioxane	94	70-130
2,2,4-Trimethylpentane	98	70-130
2-Butanone (Methyl Ethyl Ketone)	82	70-130
2-Hexanone	108	70-130
2-Propanol	108	70-130
3-Chloropropene	83	70-130
4-Ethyltoluene	105	70-130
4-Methyl-2-pentanone	102	70-130
Acetone	94	70-130
alpha-Chlorotoluene	106	70-130
Benzene	93	70-130
Bromodichloromethane	109	70-130
Bromoform	114	70-130
Bromomethane	80	70-130
Carbon Disulfide	82	70-130
Carbon Tetrachloride	112	70-130
Chlorobenzene	101	70-130
Chloroethane	85	70-130
Chloroform	100	70-130
Chloromethane	119	70-130
cis-1,2-Dichloroethene	90	70-130
cis-1,3-Dichloropropene	97	70-130
Cumene	99	70-130
Cyclohexane	86	70-130
Dibromochloromethane	112	70-130
Ethanol	86	70-130
Ethyl Benzene	100	70-130

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Client Sample ID: LCSD

Lab ID#: 2108390-29AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p082004**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/20/21 12:08 PM**	

Compound	%Recovery	Method Limits
Freon 11	106	70-130
Freon 12	104	70-130
Freon 113	95	70-130
Freon 114	100	70-130
Heptane	90	70-130
Hexachlorobutadiene	136 Q	70-130
Hexane	94	70-130
m,p-Xylene	100	70-130
Methyl tert-butyl ether	85	70-130
Methylene Chloride	112	70-130
Naphthalene	116	60-140
o-Xylene	99	70-130
Propylbenzene	104	70-130
Propylene	103	60-140
Styrene	97	70-130
Tetrachloroethene	107	70-130
Tetrahydrofuran	108	70-130
Toluene	96	70-130
trans-1,2-Dichloroethene	88	70-130
trans-1,3-Dichloropropene	103	70-130
Trichloroethene	102	70-130
Vinyl Acetate	85	70-130
Vinyl Chloride	87	70-130

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	108	70-130
4-Bromofluorobenzene	110	70-130

US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/20AUG21.b/p082004.d
Lab Smp Id: LCSD Client Smp ID: LCSD
Inj Date : 20-AUG-2021 12:08
Operator : LD Inst ID: msdp.i
Smp Info : 50mL 3018-2173
Misc Info : 50ppbv (200ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/20AUG21.b/p21q0519a.m
Meth Date : 20-Aug-2021 11:52 p5fl Quant Type: ISTD
Cal Date : 19-MAY-2021 19:45 Cal File: p051915.d
Als bottle: 14 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT20LCS_new.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE		(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 90 Bromochloromethane							CAS #: 74-97-5	
5.778	5.785 (1.000)	130	121146	25.0000			80.00- 120.00	100.00
5.778	5.785 (1.000)	128	92519				48.23- 108.23	76.37
5.778	5.778 (1.000)	49	263765				150.57- 210.57	217.72
* 108 1,4-Difluorobenzene							CAS #: 540-36-3	
6.666	6.659 (1.000)	114	435127	25.0000			80.00- 120.00	100.00
6.666	6.659 (1.000)	88	63213				0.00- 45.71	14.53
* 153 Chlorobenzene-d5							CAS #: 3114-55-4	
9.460	9.460 (1.000)	117	424998	25.0000			80.00- 120.00	100.00
9.460	9.460 (1.000)	82	217172				23.78- 83.78	51.10
$ 104 1,2-Dichloroethane-d4							CAS #: 17060-07-0	
6.315	6.315 (1.093)	65	179947	26.9151	26.915		80.00- 120.00	100.00
6.315	6.315 (1.093)	67	97740				27.21- 87.21	54.32
$ 134 Toluene-d8							CAS #: 2037-26-5	
7.891	7.891 (1.184)	98	477391	25.2656	25.266		80.00- 120.00	100.00
7.891	7.891 (1.184)	70	50400				0.00- 40.44	10.56

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
$ 134 Toluene-d8 (continued)							
7.891	7.891 (1.184)	100	301818			34.95- 94.95	63.22
$ 170 4-Bromofluorobenzene					CAS #: 460-00-4		
10.921	10.921 (1.154)	174	299515	27.4446	27.444	80.00- 120.00	100.00
10.914	10.914 (1.154)	95	348253			95.92- 155.92	116.27
10.921	10.921 (1.154)	176	285131			66.89- 126.89	95.20
4 Freon 134a					CAS #: 811-97-2		
1.646	1.647 (0.285)	83	224148	58.4584	58.458	80.00- 120.00	100.00
1.646	1.647 (0.285)	69	160164			59.44- 119.44	71.45
1.744	1.759 (0.302)	51	959932			419.06- 479.06	428.26
5 Propylene					CAS #: 115-07-1		
1.674	1.689 (0.290)	41	285451	51.4906	51.490	80.00- 120.00	100.00
1.674	1.689 (0.290)	42	188219			35.28- 95.28	65.94
1.674	1.689 (0.290)	39	199683			38.35- 98.35	69.95
7 1,1-Difluoroethane					CAS #: 75-37-6		
1.702	1.703 (0.295)	65	125720	45.7831	45.783	80.00- 120.00	100.00
1.744	1.759 (0.302)	51	959932			597.63- 657.63	763.54
1.702	1.717 (0.295)	47	108660			33.72- 93.72	86.43
8 Freon 12					CAS #: 75-71-8		
1.716	1.717 (0.297)	85	562871	51.8033	51.803	80.00- 120.00	100.00
1.716	1.717 (0.297)	87	181541			2.37- 62.37	32.25
9 Chlorodifluoromethane					CAS #: 75-45-6		
1.744	1.759 (0.302)	67	59628	55.5568	55.557	80.00- 120.00	100.00
1.744	1.759 (0.302)	51	959932			1501.01-1561.01	1609.85
10 Freon 114					CAS #: 76-14-2		
1.856	1.856 (0.321)	135	535087	50.1686	50.169	80.00- 120.00	100.00
1.856	1.856 (0.321)	137	166820			2.30- 62.30	31.18
12 Isobutane					CAS #: 75-28-5		
1.870	1.870 (0.324)	43	620505	50.5571	50.557	80.00- 120.00	100.00
1.870	1.870 (0.324)	42	202895			2.44- 62.44	32.70
1.870	1.870 (0.324)	58	17199			0.00- 33.36	2.77
15 Chloromethane					CAS #: 74-87-3		
1.940	1.954 (0.336)	50	374825	59.4622	59.462	80.00- 120.00	100.00
1.940	1.954 (0.336)	52	95005			0.00- 56.26	25.35
18 Butane					CAS #: 106-97-8		
2.032	2.039 (0.352)	58	63461	43.4606	43.461	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
18 Butane (continued)							
2.032	2.039 (0.352)	43	573422			823.29- 883.29	903.57
19 Vinyl Chloride					CAS #: 75-01-4		
2.068	2.075 (0.358)	62	330972	43.6445	43.644	80.00- 120.00	100.00
2.068	2.075 (0.358)	64	98131			0.00- 59.69	29.65
20 1,3-Butadiene					CAS #: 106-99-0		
2.096	2.103 (0.363)	54	336160	55.1151	55.115	80.00- 120.00	100.00
2.096	2.103 (0.363)	39	298654			52.37- 112.37	88.84
24 Bromomethane					CAS #: 74-83-9		
2.483	2.490 (0.430)	94	194826	39.9554	39.955	80.00- 120.00	100.00
2.483	2.490 (0.430)	96	181846			64.07- 124.07	93.34
30 Chloroethane					CAS #: 75-00-3		
2.612	2.612 (0.452)	64	116545	42.7390	42.739	80.00- 120.00	100.00
2.612	2.612 (0.452)	66	32633			0.04- 60.04	28.00
2.612	2.612 (0.452)	49	50928			4.54- 64.54	43.70
31 Isopentane					CAS #: 78-78-4		
2.641	2.641 (0.457)	43	431262	51.9747	51.975	80.00- 120.00	100.00
2.641	2.641 (0.457)	57	242770			34.12- 94.12	56.29
32 Vinyl Bromide					CAS #: 593-60-2		
2.848	2.848 (0.493)	106	187394	41.5782	41.578	80.00- 120.00	100.00
2.841	2.848 (0.492)	108	188195			69.27- 129.27	100.43
33 Freon 11					CAS #: 75-69-4		
2.891	2.891 (0.500)	101	611392	52.9507	52.951	80.00- 120.00	100.00
2.891	2.891 (0.500)	103	398465			34.72- 94.72	65.17
34 Dichlorofluoromethane					CAS #: 75-43-4		
2.906	2.906 (0.503)	67	439019	44.1145	44.114	80.00- 120.00	100.00
2.906	2.906 (0.503)	69	135953			0.84- 60.84	30.97
35 Pentane					CAS #: 109-66-0		
2.970	2.970 (0.514)	43	672454	49.8592	49.859	80.00- 120.00	100.00
2.970	2.970 (0.514)	57	88620			0.00- 44.98	13.18
2.977	2.970 (0.515)	72	35452			0.00- 37.39	5.27
38 Ethyl Ether					CAS #: 60-29-7		
3.285	3.285 (0.569)	74	90647	39.8382	39.838	80.00- 120.00	100.00
3.285	3.285 (0.569)	59	201830			163.46- 223.46	222.65
3.285	3.285 (0.569)	45	344809			250.40- 310.40	380.38

					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE		(PPBV)	(PPBV)	TARGET RANGE	RATIO
39 Ethanol						CAS #: 64-17-5		
3.242	3.242 (0.561)	46	60300	50.1913	50.191	80.00- 120.00		100.00
3.285	3.285 (0.569)	45	342935			511.19- 571.19		568.72
42 Acrolein						CAS #: 107-02-8		
3.536	3.543 (0.612)	55	91839	44.0539	44.054	80.00- 120.00		100.00
3.536	3.543 (0.612)	56	128999			111.10- 171.10		140.46
43 Freon 113						CAS #: 76-13-1		
3.557	3.550 (0.616)	151	406748	47.4140	47.414	80.00- 120.00		100.00
3.550	3.558 (0.614)	153	261607			33.56- 93.56		64.32
3.550	3.550 (0.614)	101	480558			89.21- 149.21		118.15
44 1,1-Dichloroethene						CAS #: 75-35-4		
3.586	3.586 (0.621)	96	222210	43.3596	43.360	80.00- 120.00		100.00
3.586	3.586 (0.621)	98	141277			34.02- 94.02		63.58
3.586	3.586 (0.621)	61	489369			168.77- 228.77		220.23
47 Acetone						CAS #: 67-64-1		
3.715	3.722 (0.643)	58	150014	47.2339	47.234	80.00- 120.00		100.00
3.715	3.722 (0.643)	43	579522			302.95- 362.95		386.31
48 Carbon Disulfide						CAS #: 75-15-0		
3.822	3.830 (0.662)	76	552973	40.9563	40.956	80.00- 120.00		100.00
49 Iodomethane						CAS #: 74-88-4		
3.794	3.794 (0.657)	142	520255	57.9654	57.965	80.00- 120.00		100.00
3.794	3.794 (0.657)	127	251370			12.22- 72.22		48.32
52 2-Propanol						CAS #: 67-63-0		
3.887	3.894 (0.673)	45	692271	54.0827	54.083	80.00- 120.00		100.00
3.887	3.894 (0.673)	43	131143			0.00- 47.19		18.94
54 3-Chloropropene						CAS #: 107-05-1		
4.052	4.052 (0.701)	76	93642	41.5161	41.516	80.00- 120.00		100.00
4.052	4.052 (0.701)	41	485232			396.19- 456.19		518.18
57 Acetonitrile						CAS #: 75-05-8		
4.123	4.131 (0.714)	41	327096	54.8273	54.827	80.00- 120.00		100.00
4.123	4.131 (0.714)	40	168432			20.95- 80.95		51.49
4.130	4.131 (0.715)	38	33815			0.00- 41.17		10.34
59 Methylene Chloride						CAS #: 75-09-2		
4.238	4.238 (0.733)	49	460083	55.7716	55.772	80.00- 120.00		100.00
4.238	4.238 (0.733)	84	178044			22.03- 82.03		38.70
4.238	4.238 (0.733)	51	137893			0.18- 60.18		29.97

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
62 tert-Butyl alcohol					CAS #: 75-65-0		
4.338	4.346 (0.751)	59	682644	45.7319	45.732	80.00- 120.00	100.00
4.338	4.338 (0.751)	41	167160			0.00- 51.11	24.49
4.345	4.346 (0.752)	57	74436			0.00- 40.49	10.90
63 Methyl tert-butyl ether					CAS #: 1634-04-4		
4.446	4.446 (0.769)	73	634701	42.6613	42.661	80.00- 120.00	100.00
4.446	4.446 (0.769)	57	234674			3.10- 63.10	36.97
4.446	4.446 (0.769)	41	255018			1.28- 61.28	40.18
64 trans-1,2-Dichloroethene					CAS #: 156-60-5		
4.481	4.482 (0.776)	98	150544	43.9639	43.964	80.00- 120.00	100.00
4.481	4.482 (0.776)	61	449842			255.84- 315.84	298.81
4.481	4.482 (0.776)	96	233875			127.59- 187.59	155.35
66 Acrylonitrile					CAS #: 107-13-1		
4.560	4.568 (0.789)	52	250444	52.5393	52.539	80.00- 120.00	100.00
4.560	4.568 (0.789)	53	292890			88.05- 148.05	116.95
67 Hexane					CAS #: 110-54-3		
4.696	4.697 (0.813)	57	562133	47.1022	47.102	80.00- 120.00	100.00
4.696	4.697 (0.813)	43	430215			37.52- 97.52	76.53
4.696	4.697 (0.813)	86	56710			0.00- 41.48	10.09
71 1,1-Dichloroethane					CAS #: 75-34-3		
4.969	4.969 (0.860)	63	486407	47.4095	47.409	80.00- 120.00	100.00
4.969	4.969 (0.860)	65	138943			0.00- 59.70	28.57
72 Isopropyl ether					CAS #: 108-20-3		
4.954	4.947 (0.857)	45	1501484	54.0957	54.096	80.00- 120.00	100.00
4.954	4.954 (0.857)	87	207424			0.00- 48.18	13.81
4.954	4.947 (0.857)	59	134090			0.00- 40.15	8.93
73 Vinyl Acetate					CAS #: 108-05-4		
4.997	4.997 (0.865)	86	55794	42.3150	42.315	80.00- 120.00	100.00
4.997	4.997 (0.865)	43	1333499			2432.48-2492.48	2390.03
79 Ethyl-tert-butyl ether					CAS #: 637-92-3		
5.305	5.305 (0.918)	59	1129457	47.0090	47.009	80.00- 120.00	100.00
5.305	5.305 (0.918)	87	322548			1.00- 61.00	28.56
5.305	5.305 (0.918)	41	259572			0.00- 48.73	22.98
84 2,2-Dichloropropane					CAS #: 594-20-7		
5.513	5.513 (0.954)	77	451596	49.5680	49.568	80.00- 120.00	100.00
5.513	5.513 (0.954)	79	146365			2.28- 62.28	32.41
5.513	5.513 (0.954)	97	104824			0.00- 53.93	23.21

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
85 cis-1,2-Dichloroethene					CAS #: 156-59-2		
5.549	5.549 (0.960)	98	160262	45.0987	45.099	80.00- 120.00	100.00
5.549	5.549 (0.960)	96	251732			125.75- 185.75	157.08
5.549	5.549 (0.960)	61	627518			332.40- 392.40	391.56
86 2-Butanone					CAS #: 78-93-3		
5.556	5.556 (0.962)	72	112308	41.0149	41.015	80.00- 120.00	100.00
5.563	5.563 (0.963)	43	1897482			1214.50-1274.50	1689.53
5.556	5.556 (0.962)	57	60037			14.68- 74.68	53.46
87 Ethyl Acetate					CAS #: 141-78-6		
5.577	5.570 (0.965)	45	153457	56.3431	56.343	80.00- 120.00	100.00
5.549	5.549 (0.960)	61	627518			452.04- 512.04	408.92
5.577	5.578 (0.965)	70	54711			22.77- 82.77	35.65
89 Tetrahydrofuran					CAS #: 109-99-9		
5.778	5.778 (1.000)	42	493800	54.2235	54.224	80.00- 120.00	100.00
5.778	5.778 (1.000)	71	96927			0.00- 55.82	19.63
5.778	5.778 (1.000)	72	104674			0.00- 57.59	21.20
92 Chloroform					CAS #: 67-66-3		
5.842	5.843 (1.011)	83	525751	49.8782	49.878	80.00- 120.00	100.00
5.842	5.843 (1.011)	85	336971			34.70- 94.70	64.09
94 Cyclohexane					CAS #: 110-82-7		
5.964	5.957 (1.032)	84	327257	42.9438	42.944	80.00- 120.00	100.00
5.957	5.957 (1.031)	56	636741			142.57- 202.57	194.57
5.957	5.957 (1.031)	41	384446			62.09- 122.09	117.48
96 1,1,1-Trichloroethane					CAS #: 71-55-6		
5.971	5.972 (1.033)	97	598663	50.2747	50.275	80.00- 120.00	100.00
5.971	5.972 (1.033)	99	385835			34.02- 94.02	64.45
97 Carbon Tetrachloride					CAS #: 56-23-5		
6.093	6.093 (1.055)	119	628232	56.2518	56.252	80.00- 120.00	100.00
6.093	6.093 (1.055)	117	627451			70.64- 130.64	99.88
99 1,1-Dichloropropene					CAS #: 563-58-6		
6.122	6.122 (0.918)	110	144223	48.6931	48.693	80.00- 120.00	100.00
6.122	6.115 (0.918)	75	351572			226.85- 286.85	243.77
101 2,2,4-Trimethylpentane					CAS #: 540-84-1		
6.287	6.280 (1.088)	57	2041340	49.2118	49.212	80.00- 120.00	100.00
6.287	6.280 (1.088)	56	688666			2.24- 62.24	33.74
6.287	6.280 (1.088)	41	574242			0.00- 54.39	28.13

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
102 Benzene					CAS #: 71-43-2		
6.301	6.301 (0.945)	78	666325	46.4047	46.405	80.00- 120.00	100.00
6.301	6.301 (0.945)	77	156833			0.00- 52.90	23.54
105 tert-Amyl methyl ether					CAS #: 994-05-8		
6.358	6.358 (0.954)	87	195344	48.2468	48.247	80.00- 120.00	100.00
6.358	6.358 (0.954)	73	765316			372.79- 432.79	391.78
6.358	6.358 (0.954)	55	319038			112.09- 172.09	163.32
106 1,2-Dichloroethane					CAS #: 107-06-2		
6.380	6.380 (0.957)	62	440994	59.0230	59.023	80.00- 120.00	100.00
6.380	6.380 (0.957)	64	133472			0.79- 60.79	30.27
107 Heptane					CAS #: 142-82-5		
6.451	6.444 (0.968)	71	255781	44.9652	44.965	80.00- 120.00	100.00
6.451	6.444 (0.968)	43	875758			226.53- 286.53	342.38
6.451	6.444 (0.968)	57	402276			100.85- 160.85	157.27
110 n-Butanol					CAS #: 71-36-3		
6.817	6.810 (1.023)	56	300557	57.5726	57.573	80.00- 120.00	100.00
6.817	6.810 (1.023)	41	234946			40.99- 100.99	78.17
6.809	6.810 (1.021)	43	190065			27.38- 87.38	63.24
111 Trichloroethene					CAS #: 79-01-6		
6.867	6.867 (1.030)	95	356856	51.2166	51.216	80.00- 120.00	100.00
6.867	6.867 (1.030)	130	387560			76.29- 136.29	108.60
6.867	6.867 (1.030)	97	234532			33.63- 93.63	65.72
114 1,2-Dichloropropane					CAS #: 78-87-5		
7.096	7.096 (1.064)	63	362788	49.2821	49.282	80.00- 120.00	100.00
7.096	7.096 (1.064)	62	261301			41.07- 101.07	72.03
7.096	7.096 (1.064)	41	267326			22.53- 82.53	73.69
116 Methyl Methacrylate					CAS #: 80-62-6		
7.139	7.139 (0.755)	69	268763	46.0244	46.024	80.00- 120.00	100.00
7.139	7.139 (0.755)	41	680785			179.84- 239.84	253.30
7.139	7.139 (0.755)	100	109457			9.59- 69.59	40.73
117 1,4-Dioxane					CAS #: 123-91-1		
7.175	7.175 (1.076)	88	183384	46.8747	46.875	80.00- 120.00	100.00
7.175	7.175 (1.076)	58	196840			68.28- 128.28	107.34
7.175	7.175 (1.076)	57	70367			2.68- 62.68	38.37
118 Dibromomethane					CAS #: 74-95-3		
7.211	7.211 (0.762)	174	348080	55.1924	55.192	80.00- 120.00	100.00
7.203	7.204 (0.761)	93	313719			60.09- 120.09	90.13

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
118 Dibromomethane (continued)							
7.203	7.204 (0.761)	95	273572			48.38- 108.38	78.59
122 Bromodichloromethane					CAS #: 75-27-4		
7.318	7.318 (1.098)	83	588245	54.4506	54.451	80.00- 120.00	100.00
7.318	7.318 (1.098)	85	377921			35.24- 95.24	64.25
126 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.698	7.698 (1.155)	75	444361	48.6868	48.687	80.00- 120.00	100.00
7.698	7.698 (1.155)	77	137988			2.42- 62.42	31.05
7.698	7.698 (1.155)	39	355303			37.16- 97.16	79.96
127 Methylcyclohexane					CAS #: 108-87-2		
6.974	6.974 (1.046)	83	473284	46.9402	46.940	80.00- 120.00	100.00
6.974	6.974 (1.046)	98	226185			15.78- 75.78	47.79
6.974	6.974 (1.046)	55	621507			84.64- 144.64	131.32
131 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.798	7.798 (1.170)	58	381199	50.9929	50.993	80.00- 120.00	100.00
7.798	7.798 (1.170)	43	1210998			242.35- 302.35	317.68
7.798	7.798 (1.170)	85	111223			3.24- 63.24	29.18
137 Toluene					CAS #: 108-88-3		
7.956	7.956 (1.193)	91	952170	48.0636	48.064	80.00- 120.00	100.00
7.956	7.956 (1.193)	92	553885			28.38- 88.38	58.17
136 Octane					CAS #: 111-65-9		
7.948	7.949 (1.192)	57	444834	52.6620	52.662	80.00- 120.00	100.00
7.948	7.949 (1.192)	85	326067			56.00- 116.00	73.30
7.948	7.949 (1.192)	43	1310759			228.66- 288.66	294.66
139 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
8.213	8.214 (0.868)	75	431393	51.5804	51.580	80.00- 120.00	100.00
8.213	8.214 (0.868)	77	136900			1.24- 61.24	31.73
8.213	8.214 (0.868)	39	325481			34.11- 94.11	75.45
141 1,1,2-Trichloroethane					CAS #: 79-00-5		
8.400	8.400 (0.888)	97	351559	50.8557	50.856	80.00- 120.00	100.00
8.400	8.400 (0.888)	99	217299			31.96- 91.96	61.81
8.400	8.400 (0.888)	83	289777			52.93- 112.93	82.43
142 Tetrachloroethene					CAS #: 127-18-4		
8.464	8.464 (0.895)	166	518723	53.5535	53.554	80.00- 120.00	100.00
8.464	8.464 (0.895)	129	402371			47.84- 107.84	77.57
8.464	8.464 (0.895)	131	382880			45.29- 105.29	73.81

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
143 2-Hexanone					CAS #: 591-78-6		
8.586	8.586 (0.908)	58	531945	53.8598	53.860	80.00- 120.00	100.00
8.586	8.586 (0.908)	43	1186439			162.87- 222.87	223.04
8.586	8.586 (0.908)	100	75993			0.00- 45.94	14.29
144 1,3-Dichloropropane					CAS #: 142-28-9		
8.579	8.579 (1.287)	76	458621	48.7493	48.749	80.00- 120.00	100.00
8.579	8.579 (1.287)	41	711963			94.99- 154.99	155.24
8.579	8.579 (1.287)	78	146333			2.05- 62.05	31.91
146 Dibromochloromethane					CAS #: 124-48-1		
8.801	8.801 (0.930)	129	721921	55.8926	55.892	80.00- 120.00	100.00
8.801	8.801 (0.930)	127	561528			47.45- 107.45	77.78
148 1,2-Dibromoethane (EDB)					CAS #: 106-93-4		
8.951	8.951 (0.946)	107	586388	52.8883	52.888	80.00- 120.00	100.00
8.951	8.951 (0.946)	109	555077			64.21- 124.21	94.66
151 1-Bromo-2-Chloroethane					CAS #: 107-04-0		
7.605	7.605 (1.141)	63	678276	50.2170	50.217	80.00- 120.00	100.00
7.605	7.605 (1.141)	65	194125			0.00- 59.64	28.62
7.612	7.612 (1.142)	144	69224			0.00- 39.63	10.21
154 Chlorobenzene					CAS #: 108-90-7		
9.496	9.496 (1.004)	112	855246	50.6783	50.678	80.00- 120.00	100.00
9.496	9.496 (1.004)	114	271873			1.74- 61.74	31.79
9.496	9.496 (1.004)	77	440885			25.04- 85.04	51.55
155 Ethyl Benzene					CAS #: 100-41-4		
9.567	9.567 (1.011)	106	441426	50.0228	50.023	80.00- 120.00	100.00
9.567	9.567 (1.011)	91	1310630			273.74- 333.74	296.91
156 Nonane					CAS #: 111-84-2		
9.596	9.603 (1.014)	43	1372781	60.4632	60.463	80.00- 120.00	100.00
9.603	9.603 (1.015)	57	1006615			54.16- 114.16	73.33
9.603	9.603 (1.015)	85	256071			0.00- 53.90	18.65
157 1,1,1,2-Tetrachloroethane					CAS #: 630-20-6		
9.596	9.603 (1.014)	131	429625	45.4697	45.470	80.00- 120.00	100.00
9.460	9.460 (1.000)	117	424998			57.42- 117.42	98.92
9.596	9.589 (1.014)	95	155979			5.70- 65.70	36.31
158 m,p-Xylene					CAS #: 108-38-3		
9.718	9.718 (1.027)	106	550686	49.8261	49.826	80.00- 120.00	100.00
9.718	9.718 (1.027)	91	1048876			163.73- 223.73	190.47

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
164 o-Xylene					CAS #: 95-47-6		
10.226	10.226 (1.081)	106	525093	49.5875	49.587	80.00- 120.00	100.00
10.226	10.226 (1.081)	91	1047453			177.45- 237.45	199.48
165 Styrene					CAS #: 100-42-5		
10.255	10.255 (1.084)	104	878121	48.4892	48.489	80.00- 120.00	100.00
10.255	10.255 (1.084)	78	409145			17.88- 77.88	46.59
167 Bromoform					CAS #: 75-25-2		
10.549	10.549 (1.115)	173	724635	56.9172	56.917	80.00- 120.00	100.00
10.541	10.542 (1.114)	171	369199			21.25- 81.25	50.95
168 Cumene					CAS #: 98-82-8		
10.649	10.649 (1.126)	105	1642119	49.3658	49.366	80.00- 120.00	100.00
10.649	10.649 (1.126)	120	480635			0.00- 58.52	29.27
10.649	10.649 (1.126)	51	266027			0.00- 43.00	16.20
169 Cyclohexanone					CAS #: 108-94-1		
10.871	10.871 (1.149)	55	699727	58.8192	58.819	80.00- 120.00	100.00
10.878	10.871 (1.150)	98	193600			1.94- 61.94	27.67
10.871	10.871 (1.149)	42	492989			37.89- 97.89	70.45
175 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
11.107	11.107 (1.174)	83	831355	51.2051	51.205	80.00- 120.00	100.00
11.107	11.107 (1.174)	85	531728			35.20- 95.20	63.96
177 Bromobenzene					CAS #: 108-86-1		
11.107	11.107 (1.174)	156	555944	54.9515	54.951	80.00- 120.00	100.00
11.107	11.107 (1.174)	158	539308			67.21- 127.21	97.01
11.179	11.179 (1.182)	77	330225			29.02- 89.02	59.40
178 Propylbenzene					CAS #: 103-65-1		
11.150	11.150 (1.179)	120	513761	52.0885	52.088	80.00- 120.00	100.00
11.150	11.150 (1.179)	91	1994300			366.49- 426.49	388.18
11.150	11.150 (1.179)	105	74636			0.00- 44.85	14.53
179 1,2,3-Trichloropropane					CAS #: 96-18-4		
11.179	11.179 (1.182)	110	274479	53.0423	53.042	80.00- 120.00	100.00
11.179	11.179 (1.182)	75	859089			280.55- 340.55	312.99
11.100	11.100 (1.173)	61	134536			15.49- 75.49	49.01
181 trans-1,4-Dichloro-2-butene					CAS #: 110-57-6		
11.179	11.179 (1.182)	53	291439	85.9108	85.911	80.00- 120.00	100.00(R)
11.179	11.158 (1.182)	89	176614			49.11- 109.11	60.60
11.179	11.179 (1.182)	75	859089			426.44- 486.44	294.77

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
182 Decane					CAS #: 124-18-5		
11.251	11.251 (1.189)	57	1411605	54.5558	54.556	80.00- 120.00	100.00
11.258	11.258 (1.190)	71	340402			0.00- 57.66	24.11
11.258	11.258 (1.190)	142	51751			0.00- 34.09	3.67
183 4-Ethyltoluene					CAS #: 622-96-8		
11.286	11.287 (1.193)	120	565139	52.6873	52.687	80.00- 120.00	100.00
11.286	11.287 (1.193)	105	1723132			284.55- 344.55	304.90
184 2-Chlorotoluene					CAS #: 95-49-8		
11.308	11.308 (1.195)	126	445933	53.0986	53.099	80.00- 120.00	100.00
11.308	11.308 (1.195)	91	1486334			315.17- 375.17	333.31
11.301	11.301 (1.195)	65	229973			21.55- 81.55	51.57
185 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
11.365	11.365 (1.201)	120	782036	52.9549	52.955	80.00- 120.00	100.00
11.365	11.365 (1.201)	105	1469928			164.93- 224.93	187.96
188 alpha Methyl Styrene					CAS #: 98-83-9		
11.645	11.645 (1.231)	118	764787	52.1296	52.130	80.00- 120.00	100.00
11.645	11.645 (1.231)	103	422410			25.30- 85.30	55.23
189 tert-Butylbenzene					CAS #: 98-06-6		
11.738	11.745 (1.241)	119	1471660	53.2794	53.279	80.00- 120.00	100.00
11.745	11.745 (1.242)	134	357355			0.00- 54.25	24.28
11.738	11.745 (1.241)	91	878535			31.27- 91.27	59.70
190 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
11.816	11.817 (1.249)	105	1476952	52.9858	52.986	80.00- 120.00	100.00
11.816	11.817 (1.249)	120	750332			19.05- 79.05	50.80
192 sec-Butylbenzene					CAS #: 135-98-8		
11.995	12.003 (1.268)	134	467857	54.4976	54.498	80.00- 120.00	100.00
11.995	11.996 (1.268)	105	2138443			437.55- 497.55	457.07
11.995	11.996 (1.268)	91	319634			40.76- 100.76	68.32
194 p-Cymene					CAS #: 99-87-6		
12.160	12.160 (1.285)	119	2041238	53.7955	53.795	80.00- 120.00	100.00
12.160	12.160 (1.285)	134	531081			0.00- 55.54	26.02
12.160	12.160 (1.285)	91	430099			0.00- 51.48	21.07
195 1,3-Dichlorobenzene					CAS #: 541-73-1		
12.203	12.203 (1.290)	146	1063211	55.7261	55.726	80.00- 120.00	100.00
12.203	12.203 (1.290)	148	676464			33.21- 93.21	63.62
12.196	12.196 (1.289)	111	423297			11.31- 71.31	39.81

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
196 1,4-Dichlorobenzene					CAS #: 106-46-7		
12.311	12.311 (1.301)	146	1067044	55.3436	55.344	80.00- 120.00	100.00
12.311	12.311 (1.301)	148	682690			33.90- 93.90	63.98
12.311	12.311 (1.301)	111	404833			9.45- 69.45	37.94
199 alpha-Chlorotoluene					CAS #: 100-44-7		
12.461	12.461 (1.317)	91	1399859	52.8727	52.873	80.00- 120.00	100.00
12.461	12.461 (1.317)	126	336322			0.00- 53.26	24.03
201 Undecane					CAS #: 1120-21-4		
12.640	12.640 (1.336)	57	1741856	58.2804	58.280	80.00- 120.00	100.00
12.640	12.640 (1.336)	43	1755606			58.12- 118.12	100.79
202 Butylbenzene					CAS #: 104-51-8		
12.626	12.626 (1.335)	134	522187	54.1846	54.185	80.00- 120.00	100.00
12.626	12.626 (1.335)	91	1754557			314.79- 374.79	336.00
12.626	12.626 (1.335)	92	918452			154.29- 214.29	175.89
204 1,2-Dichlorobenzene					CAS #: 95-50-1		
12.740	12.733 (1.347)	146	1029723	55.0419	55.042	80.00- 120.00	100.00
12.740	12.733 (1.347)	148	655051			33.84- 93.84	63.61
12.733	12.733 (1.346)	111	419142			12.73- 72.73	40.70
206 1,2-Dibromo-3-chloropropane					CAS #: 96-12-8		
13.600	13.600 (1.438)	157	646469	57.0536	57.054	80.00- 120.00	100.00
13.600	13.600 (1.438)	75	516279			52.48- 112.48	79.86
13.600	13.600 (1.438)	155	500245			47.41- 107.41	77.38
207 Dodecane					CAS #: 112-40-3		
13.801	13.801 (1.459)	57	1848892	78.0464	78.046	80.00- 120.00	100.00(R)
13.801	13.801 (1.459)	43	1727375			52.87- 112.87	93.43
213 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
14.467	14.467 (1.529)	180	1045199	75.6175	75.617	80.00- 120.00	100.00(R)
14.467	14.467 (1.529)	182	1002442			65.33- 125.33	95.91
215 Hexachlorobutadiene					CAS #: 87-68-3		
14.581	14.582 (1.541)	225	770092	79.1653	79.165	80.00- 120.00	100.00(R)
14.581	14.582 (1.541)	223	486296			33.17- 93.17	63.15
216 Naphthalene					CAS #: 91-20-3		
14.768	14.768 (1.561)	128	237717	6.72941	6.729	80.00- 120.00	100.00
14.768	14.768 (1.561)	127	30072			0.00- 42.88	12.65
222 1,2,3-Trichlorobenzene					CAS #: 87-61-6		
15.068	15.069 (1.593)	180	984246	80.5500	80.550	80.00- 120.00	100.00(R)

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
222 1,2,3-Trichlorobenzene (continued)							
15.068	15.069 (1.593)	182	951677			65.75- 125.75	96.69
15.068	15.069 (1.593)	145	334220			5.23- 65.23	33.96

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p082004.d
Lab Smp Id: LCSD
Analysis Type: VOA
Quant Type: ISTD
Operator: LD
Method File: /chem/msdp.i/20AUG21.b/p21q0519a.m
Misc Info: 50ppbv (200ppbv)

Calibration Date: 20-AUG-2021
Calibration Time: 11:13
Client Smp ID: LCSD
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	109375	65625	153125	121146	10.76
108 1,4-Difluorobenze	406799	244079	569519	435127	6.96
153 Chlorobenzene-d5	400841	240505	561177	424998	6.03

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.79	5.46	6.12	5.78	-0.13
108 1,4-Difluorobenze	6.66	6.33	6.99	6.67	0.11
153 Chlorobenzene-d5	9.46	9.13	9.79	9.46	-0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

US32TAR1

RECOVERY REPORT

Client Name: Client SDG: 20AUG21
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: LCSD Client Smp ID: LCSD
Level: LOW Operator: LD
Data Type: MS DATA SampleType: LCSD
SpikeList File: AT20_new.spk Quant Type: ISTD
Sublist File: AT20LCS_new.sub
Method File: /chem/msdp.i/20AUG21.b/p21q0519a.m
Misc Info: 50ppbv (200ppbv)

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
4 Freon 134a	50.000	58.458	116.92	70-130
5 Propylene	50.000	51.490	102.98	70-130
7 1,1-Difluoroethan	50.000	45.783	91.57	70-130
8 Freon 12	50.000	51.803	103.61	70-130
9 Chlorodifluoromet	50.000	55.557	111.11	70-130
10 Freon 114	50.000	50.169	100.34	70-130
12 Isobutane	50.000	50.557	101.11	70-130
15 Chloromethane	50.000	59.462	118.92	70-130
18 Butane	50.000	43.461	86.92	70-130
19 Vinyl Chloride	50.000	43.644	87.29	70-130
20 1,3-Butadiene	50.000	55.115	110.23	70-130
24 Bromomethane	50.000	39.955	79.91	70-130
30 Chloroethane	50.000	42.739	85.48	70-130
31 Isopentane	50.000	51.975	103.95	70-130
32 Vinyl Bromide	50.000	41.578	83.16	70-130
33 Freon 11	50.000	52.951	105.90	70-130
34 Dichlorofluoromet	50.000	44.114	88.23	70-130
35 Pentane	50.000	49.859	99.72	70-130
38 Ethyl Ether	50.000	39.838	79.68	70-130
39 Ethanol	58.000	50.191	86.54	70-130
42 Acrolein	58.000	44.054	75.95	70-130
43 Freon 113	50.000	47.414	94.83	70-130
44 1,1-Dichloroethen	50.000	43.360	86.72	70-130
47 Acetone	50.000	47.234	94.47	70-130
48 Carbon Disulfide	50.000	40.956	81.91	70-130
49 Iodomethane	50.000	57.965	115.93	70-130
52 2-Propanol	50.000	54.083	108.17	70-130
54 3-Chloropropene	50.000	41.516	83.03	70-130
57 Acetonitrile	50.000	54.827	109.65	70-130
59 Methylene Chlorid	50.000	55.772	111.54	70-130
62 tert-Butyl alcoho	50.000	45.732	91.46	70-130
63 Methyl tert-butyl	50.000	42.661	85.32	70-130
64 trans-1,2-Dichlor	50.000	43.964	87.93	70-130

	SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
66	Acrylonitrile	50.000	52.539	105.08	70-130
67	Hexane	50.000	47.102	94.20	70-130
71	1,1-Dichloroethan	50.000	47.409	94.82	70-130
72	Isopropyl ether	50.000	54.096	108.19	70-130
73	Vinyl Acetate	50.000	42.315	84.63	70-130
79	Ethyl-tert-butyl	50.000	47.009	94.02	70-130
84	2,2-Dichloropropa	50.000	49.568	99.14	70-130
85	cis-1,2-Dichloroe	50.000	45.099	90.20	70-130
86	2-Butanone	50.000	41.015	82.03	70-130
87	Ethyl Acetate	50.000	56.343	112.69	70-130
89	Tetrahydrofuran	50.000	54.224	108.45	70-130
92	Chloroform	50.000	49.878	99.76	70-130
94	Cyclohexane	50.000	42.944	85.89	70-130
96	1,1,1-Trichloroet	50.000	50.275	100.55	70-130
99	1,1-Dichloroprope	50.000	48.693	97.39	70-130
97	Carbon Tetrachlor	50.000	56.252	112.50	70-130
101	2,2,4-Trimethylpe	50.000	49.212	98.42	70-130
102	Benzene	50.000	46.405	92.81	70-130
105	tert-Amyl methyl	50.000	48.247	96.49	70-130
106	1,2-Dichloroethan	50.000	59.023	118.05	70-130
107	Heptane	50.000	44.965	89.93	70-130
110	n-Butanol	50.000	57.573	115.15	70-130
111	Trichloroethene	50.000	51.216	102.43	70-130
118	Dibromomethane	50.000	55.192	110.38	70-130
127	Methylcyclohexane	50.000	46.940	93.88	70-130
114	1,2-Dichloropropa	50.000	49.282	98.56	70-130
116	Methyl Methacryla	50.000	46.024	92.05	70-130
117	1,4-Dioxane	50.000	46.875	93.75	70-130
122	Bromodichlorometh	50.000	54.451	108.90	70-130
126	cis-1,3-Dichlorop	50.000	48.687	97.37	70-130
131	4-Methyl-2-pentan	50.000	50.993	101.99	70-130
136	Octane	50.000	52.662	105.32	70-130
137	Toluene	50.000	48.064	96.13	70-130
139	trans-1,3-Dichlor	50.000	51.580	103.16	70-130
141	1,1,2-Trichloroet	50.000	50.856	101.71	70-130
142	Tetrachloroethene	50.000	53.554	107.11	70-130
143	2-Hexanone	50.000	53.860	107.72	70-130
144	1,3-Dichloropropa	50.000	48.749	97.50	70-130
146	Dibromochlorometh	50.000	55.892	111.79	70-130
148	1,2-Dibromoethane	50.000	52.888	105.78	70-130
151	1-Bromo-2-Chloroe	50.000	50.217	100.43	70-130
154	Chlorobenzene	50.000	50.678	101.36	70-130
155	Ethyl Benzene	50.000	50.023	100.05	70-130
156	Nonane	50.000	60.463	120.93	70-130
157	1,1,1,2-Tetrachlo	50.000	45.470	90.94	70-130
158	m,p-Xylene	50.000	49.826	99.65	70-130
164	o-Xylene	50.000	49.587	99.17	70-130

	SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
165	Styrene	50.000	48.489	96.98	70-130
167	Bromoform	50.000	56.917	113.83	70-130
168	Cumene	50.000	49.366	98.73	70-130
169	Cyclohexanone	50.000	58.819	117.64	70-130
175	1,1,2,2-Tetrachlo	50.000	51.205	102.41	70-130
177	Bromobenzene	50.000	54.951	109.90	70-130
178	Propylbenzene	50.000	52.088	104.18	70-130
179	1,2,3-Trichloropr	50.000	53.042	106.08	70-130
181	trans-1,4-Dichlor	50.000	85.911	171.82*	70-130
182	Decane	50.000	54.556	109.11	70-130
183	4-Ethyltoluene	50.000	52.687	105.37	70-130
184	2-Chlorotoluene	50.000	53.099	106.20	70-130
185	1,3,5-Trimethylbe	50.000	52.955	105.91	70-130
188	alpha Methyl Styr	50.000	52.130	104.26	70-130
189	tert-Butylbenzene	50.000	53.279	106.56	70-130
190	1,2,4-Trimethylbe	50.000	52.986	105.97	70-130
192	sec-Butylbenzene	50.000	54.498	109.00	70-130
194	p-Cymene	50.000	53.795	107.59	70-130
195	1,3-Dichlorobenze	50.000	55.726	111.45	70-130
196	1,4-Dichlorobenze	50.000	55.344	110.69	70-130
199	alpha-Chlorotolue	50.000	52.873	105.75	70-130
201	Undecane	50.000	58.280	116.56	70-130
202	Butylbenzene	50.000	54.185	108.37	70-130
204	1,2-Dichlorobenze	50.000	55.042	110.08	70-130
206	1,2-Dibromo-3-chl	50.000	57.054	114.11	70-130
207	Dodecane	50.000	78.046	156.09*	70-130
213	1,2,4-Trichlorobe	58.000	75.617	130.37*	70-130
215	Hexachlorobutadie	58.000	79.165	136.49*	70-130
216	Naphthalene	5.800	6.729	116.02	60-140
222	1,2,3-Trichlorobe	58.000	80.550	138.88*	70-130

	SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 104	1,2-Dichloroethan	25.000	26.915	107.66	70-130
$ 134	Toluene-d8	25.000	25.266	101.06	70-130
$ 170	4-Bromofluorobenz	25.000	27.444	109.78	70-130

Data File: /chem/msdp.i/20AUG21.b/p082004.d

Date : 20-AUG-2021 12:08

Client ID: LCSD

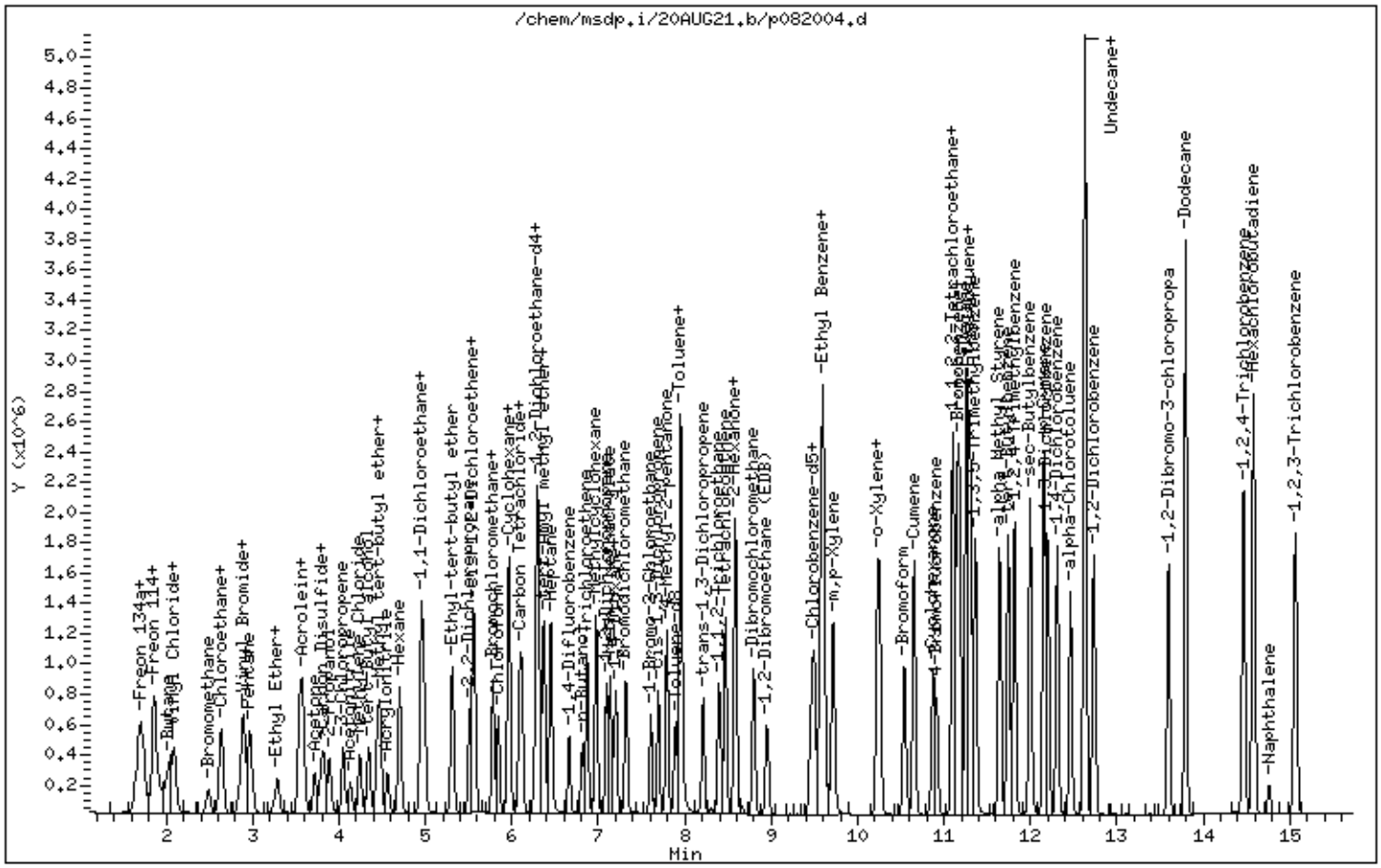
Instrument: msdp.i

Sample Info: 50mL 3018-2173

Operator: LD

Column phase: RTX-624

Column diameter: 0.25



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Client Sample ID: LCS

Lab ID#: 2108390-29B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p082103**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/21/21 10:04 AM**	

Compound	%Recovery	Method Limits
1,1,1-Trichloroethane	102	70-130
1,1,2,2-Tetrachloroethane	103	70-130
1,1,2-Trichloroethane	105	70-130
1,1-Dichloroethane	95	70-130
1,1-Dichloroethene	88	70-130
1,2,4-Trichlorobenzene	118	70-130
1,2,4-Trimethylbenzene	108	70-130
1,2-Dibromoethane (EDB)	108	70-130
1,2-Dichlorobenzene	112	70-130
1,2-Dichloroethane	122	70-130
1,2-Dichloropropane	99	70-130
1,3,5-Trimethylbenzene	107	70-130
1,3-Butadiene	110	70-130
1,3-Dichlorobenzene	113	70-130
1,4-Dichlorobenzene	114	70-130
1,4-Dioxane	92	70-130
2,2,4-Trimethylpentane	98	70-130
2-Butanone (Methyl Ethyl Ketone)	82	70-130
2-Hexanone	110	70-130
2-Propanol	110	70-130
3-Chloropropene	80	70-130
4-Ethyltoluene	108	70-130
4-Methyl-2-pentanone	103	70-130
Acetone	96	70-130
alpha-Chlorotoluene	107	70-130
Benzene	95	70-130
Bromodichloromethane	110	70-130
Bromoform	116	70-130
Bromomethane	82	70-130
Carbon Disulfide	82	70-130
Carbon Tetrachloride	114	70-130
Chlorobenzene	102	70-130
Chloroethane	83	70-130
Chloroform	97	70-130
Chloromethane	121	70-130
cis-1,2-Dichloroethene	91	70-130
cis-1,3-Dichloropropene	98	70-130
Cumene	100	70-130
Cyclohexane	84	70-130
Dibromochloromethane	115	70-130
Ethanol	91	70-130
Ethyl Benzene	101	70-130

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Client Sample ID: LCS

Lab ID#: 2108390-29B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p082103**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/21/21 10:04 AM**	

Compound	%Recovery	Method Limits
Freon 11	107	70-130
Freon 12	106	70-130
Freon 113	95	70-130
Freon 114	99	70-130
Heptane	90	70-130
Hexachlorobutadiene	126	70-130
Hexane	95	70-130
m,p-Xylene	101	70-130
Methyl tert-butyl ether	85	70-130
Methylene Chloride	115	70-130
Naphthalene	103	60-140
o-Xylene	99	70-130
Propylbenzene	106	70-130
Propylene	106	60-140
Styrene	98	70-130
Tetrachloroethene	110	70-130
Tetrahydrofuran	110	70-130
Toluene	96	70-130
trans-1,2-Dichloroethene	88	70-130
trans-1,3-Dichloropropene	105	70-130
Trichloroethene	104	70-130
Vinyl Acetate	84	70-130
Vinyl Chloride	91	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	108	70-130
4-Bromofluorobenzene	112	70-130

US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem1/msdp.i/21AUG21.b/p082103.d
Lab Smp Id: LCS Client Smp ID: LCS
Inj Date : 21-AUG-2021 10:04
Operator : mb Inst ID: msdp.i
Smp Info : 50mL 3018-2173
Misc Info : 50ppbv (200ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/21AUG21.b/p21q0519a.m
Meth Date : 21-Aug-2021 12:16 x8uy Quant Type: ISTD
Cal Date : 19-MAY-2021 19:45 Cal File: p051915.d
Als bottle: 14 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT20_new.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE		(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 90 Bromochloromethane							CAS #: 74-97-5	
5.778	5.785 (1.000)	130	113059	25.0000			80.00- 120.00	100.00
5.778	5.785 (1.000)	128	86136				48.23- 108.23	76.19
5.778	5.778 (1.000)	49	249397				150.57- 210.57	220.59
* 108 1,4-Difluorobenzene							CAS #: 540-36-3	
6.659	6.666 (1.000)	114	401051	25.0000			80.00- 120.00	100.00
6.659	6.659 (1.000)	88	58522				0.00- 45.71	14.59
* 153 Chlorobenzene-d5							CAS #: 3114-55-4	
9.460	9.460 (1.000)	117	391175	25.0000			80.00- 120.00	100.00
9.460	9.460 (1.000)	82	204073				23.78- 83.78	52.17
$ 104 1,2-Dichloroethane-d4							CAS #: 17060-07-0	
6.308	6.315 (1.092)	65	169007	27.0870	27.087		80.00- 120.00	100.00
6.308	6.315 (1.092)	67	93988				27.21- 87.21	55.61
$ 134 Toluene-d8							CAS #: 2037-26-5	
7.891	7.891 (1.185)	98	436639	25.0723	25.072		80.00- 120.00	100.00
7.891	7.891 (1.185)	70	43110				0.00- 40.44	9.87

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 134 Toluene-d8 (continued)							
7.891	7.891 (1.185)	100	280300			34.95- 94.95	64.19
$ 170 4-Bromofluorobenzene					CAS #: 460-00-4		
10.921	10.921 (1.154)	174	280517	27.9262	27.926	80.00- 120.00	100.00
10.914	10.914 (1.154)	95	326477			95.92- 155.92	116.38
10.921	10.921 (1.154)	176	271239			66.89- 126.89	96.69
4 Freon 134a					CAS #: 811-97-2		
1.633	1.647 (0.283)	83	209242	58.4744	58.474	80.00- 120.00	100.00
1.633	1.647 (0.283)	69	150044			59.44- 119.44	71.71
1.745	1.759 (0.302)	51	951252			419.06- 479.06	454.62
5 Propylene					CAS #: 115-07-1		
1.675	1.689 (0.290)	41	273668	52.8964	52.896	80.00- 120.00	100.00
1.675	1.689 (0.290)	42	183835			35.28- 95.28	67.17
1.675	1.689 (0.290)	39	187751			38.35- 98.35	68.61
7 1,1-Difluoroethane					CAS #: 75-37-6		
1.703	1.703 (0.295)	65	117934	46.0196	46.020	80.00- 120.00	100.00
1.745	1.759 (0.302)	51	951252			597.63- 657.63	806.60
1.703	1.717 (0.295)	47	105480			33.72- 93.72	89.44
8 Freon 12					CAS #: 75-71-8		
1.717	1.717 (0.297)	85	537309	52.9882	52.988	80.00- 120.00	100.00
1.717	1.717 (0.297)	87	172718			2.37- 62.37	32.15
9 Chlorodifluoromethane					CAS #: 75-45-6		
1.745	1.759 (0.302)	67	57265	57.1710	57.171	80.00- 120.00	100.00
1.745	1.759 (0.302)	51	951252			1501.01-1561.01	1661.14
10 Freon 114					CAS #: 76-14-2		
1.857	1.857 (0.321)	135	495193	49.7495	49.749	80.00- 120.00	100.00
1.857	1.857 (0.321)	137	157320			2.30- 62.30	31.77
12 Isobutane					CAS #: 75-28-5		
1.871	1.870 (0.324)	43	581098	50.7332	50.733	80.00- 120.00	100.00
1.871	1.870 (0.324)	42	196260			2.44- 62.44	33.77
1.871	1.870 (0.324)	58	16621			0.00- 33.36	2.86
15 Chloromethane					CAS #: 74-87-3		
1.940	1.954 (0.336)	50	356747	60.6426	60.643	80.00- 120.00	100.00
1.940	1.954 (0.336)	52	91416			0.00- 56.26	25.62
18 Butane					CAS #: 106-97-8		
2.032	2.046 (0.352)	58	58775	43.1304	43.130	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
18 Butane (continued)							
2.032	2.039 (0.352)	43	526855			823.29- 883.29	896.39
19 Vinyl Chloride					CAS #: 75-01-4		
2.068	2.075 (0.358)	62	320795	45.3285	45.328	80.00- 120.00	100.00
2.068	2.075 (0.358)	64	90396			0.00- 59.69	28.18
20 1,3-Butadiene					CAS #: 106-99-0		
2.089	2.104 (0.362)	54	313496	55.0761	55.076	80.00- 120.00	100.00
2.089	2.096 (0.362)	39	278637			52.37- 112.37	88.88
24 Bromomethane					CAS #: 74-83-9		
2.483	2.490 (0.430)	94	187103	41.1163	41.116	80.00- 120.00	100.00
2.483	2.490 (0.430)	96	174842			64.07- 124.07	93.45
30 Chloroethane					CAS #: 75-00-3		
2.612	2.612 (0.452)	64	105751	41.5547	41.555	80.00- 120.00	100.00
2.612	2.619 (0.452)	66	27977			0.04- 60.04	26.46
2.612	2.619 (0.452)	49	47246			4.54- 64.54	44.68
31 Isopentane					CAS #: 78-78-4		
2.634	2.641 (0.456)	43	408316	52.7294	52.729	80.00- 120.00	100.00
2.634	2.641 (0.456)	57	228462			34.12- 94.12	55.95
32 Vinyl Bromide					CAS #: 593-60-2		
2.841	2.848 (0.492)	106	174004	41.3688	41.369	80.00- 120.00	100.00
2.841	2.848 (0.492)	108	175136			69.27- 129.27	100.65
33 Freon 11					CAS #: 75-69-4		
2.891	2.891 (0.500)	101	575951	53.4495	53.449	80.00- 120.00	100.00
2.891	2.891 (0.500)	103	377632			34.72- 94.72	65.57
34 Dichlorofluoromethane					CAS #: 75-43-4		
2.899	2.906 (0.502)	67	417177	44.9184	44.918	80.00- 120.00	100.00
2.906	2.906 (0.503)	69	127051			0.84- 60.84	30.45
35 Pentane					CAS #: 109-66-0		
2.970	2.977 (0.514)	43	639283	50.7904	50.790	80.00- 120.00	100.00
2.970	2.977 (0.514)	57	79032			0.00- 44.98	12.36
2.970	2.970 (0.514)	72	33869			0.00- 37.39	5.30
38 Ethyl Ether					CAS #: 60-29-7		
3.285	3.293 (0.569)	74	83975	39.5457	39.546	80.00- 120.00	100.00
3.285	3.293 (0.569)	59	188426			163.46- 223.46	224.38
3.285	3.285 (0.569)	45	321506			250.40- 310.40	382.86

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
39 Ethanol					CAS #: 64-17-5		
3.242	3.250 (0.561)	46	59103	52.7141	52.714	80.00- 120.00	100.00
3.285	3.285 (0.569)	45	321506			511.19- 571.19	543.98
42 Acrolein					CAS #: 107-02-8		
3.536	3.543 (0.612)	55	90575	46.5556	46.556	80.00- 120.00	100.00
3.536	3.543 (0.612)	56	117701			111.10- 171.10	129.95
43 Freon 113					CAS #: 76-13-1		
3.550	3.558 (0.614)	151	379058	47.3470	47.347	80.00- 120.00	100.00
3.550	3.558 (0.614)	153	241359			33.56- 93.56	63.67
3.550	3.550 (0.614)	101	449050			89.21- 149.21	118.46
44 1,1-Dichloroethene					CAS #: 75-35-4		
3.586	3.586 (0.621)	96	211208	44.1609	44.161	80.00- 120.00	100.00
3.586	3.586 (0.621)	98	130684			34.02- 94.02	61.87
3.579	3.586 (0.619)	61	461339			168.77- 228.77	218.43
47 Acetone					CAS #: 67-64-1		
3.715	3.722 (0.643)	58	142558	48.0970	48.097	80.00- 120.00	100.00
3.715	3.722 (0.643)	43	555800			302.95- 362.95	389.88
48 Carbon Disulfide					CAS #: 75-15-0		
3.823	3.830 (0.662)	76	514962	40.8693	40.869	80.00- 120.00	100.00
49 Iodomethane					CAS #: 74-88-4		
3.794	3.794 (0.657)	142	459899	54.9061	54.906	80.00- 120.00	100.00
3.794	3.794 (0.657)	127	231418			12.22- 72.22	50.32
52 2-Propanol					CAS #: 67-63-0		
3.887	3.894 (0.673)	45	655787	54.8973	54.897	80.00- 120.00	100.00
3.887	3.887 (0.673)	43	125696			0.00- 47.19	19.17
54 3-Chloropropene					CAS #: 107-05-1		
4.052	4.052 (0.701)	76	84417	40.1033	40.103	80.00- 120.00	100.00
4.045	4.052 (0.700)	41	464766			396.19- 456.19	550.56
57 Acetonitrile					CAS #: 75-05-8		
4.124	4.131 (0.714)	41	308171	55.3502	55.350	80.00- 120.00	100.00
4.124	4.131 (0.714)	40	158492			20.95- 80.95	51.43
4.124	4.131 (0.714)	38	33973			0.00- 41.17	11.02
59 Methylene Chloride					CAS #: 75-09-2		
4.238	4.238 (0.733)	49	442012	57.4139	57.414	80.00- 120.00	100.00
4.238	4.238 (0.733)	84	169229			22.03- 82.03	38.29
4.238	4.238 (0.733)	51	130738			0.18- 60.18	29.58

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
62 tert-Butyl alcohol					CAS #: 75-65-0		
4.338	4.346 (0.751)	59	631034	45.2985	45.298	80.00- 120.00	100.00
4.338	4.338 (0.751)	41	163834			0.00- 51.11	25.96
4.338	4.338 (0.751)	57	71999			0.00- 40.49	11.41
63 Methyl tert-butyl ether					CAS #: 1634-04-4		
4.446	4.446 (0.769)	73	590389	42.5215	42.522	80.00- 120.00	100.00
4.446	4.446 (0.769)	57	220604			3.10- 63.10	37.37
4.446	4.446 (0.769)	41	241661			1.28- 61.28	40.93
64 trans-1,2-Dichloroethene					CAS #: 156-60-5		
4.482	4.482 (0.776)	98	140124	43.8479	43.848	80.00- 120.00	100.00
4.482	4.482 (0.776)	61	411274			255.84- 315.84	293.51
4.482	4.482 (0.776)	96	216339			127.59- 187.59	154.39
66 Acrylonitrile					CAS #: 107-13-1		
4.560	4.568 (0.789)	52	235788	53.0030	53.003	80.00- 120.00	100.00
4.560	4.568 (0.789)	53	272634			88.05- 148.05	115.63
67 Hexane					CAS #: 110-54-3		
4.697	4.697 (0.813)	57	527920	47.3997	47.400	80.00- 120.00	100.00
4.697	4.697 (0.813)	43	411152			37.52- 97.52	77.88
4.697	4.697 (0.813)	86	52970			0.00- 41.48	10.03
71 1,1-Dichloroethane					CAS #: 75-34-3		
4.962	4.969 (0.859)	63	454449	47.4631	47.463	80.00- 120.00	100.00
4.969	4.969 (0.860)	65	126074			0.00- 59.70	27.74
72 Isopropyl ether					CAS #: 108-20-3		
4.947	4.947 (0.856)	45	1422921	54.9325	54.932	80.00- 120.00	100.00
4.954	4.954 (0.857)	87	194686			0.00- 48.18	13.68
4.947	4.954 (0.856)	59	122340			0.00- 40.15	8.60
73 Vinyl Acetate					CAS #: 108-05-4		
4.997	4.997 (0.865)	86	52045	42.2951	42.295	80.00- 120.00	100.00
4.990	4.997 (0.864)	43	1236960			2432.48-2492.48	2376.71
79 Ethyl-tert-butyl ether					CAS #: 637-92-3		
5.305	5.305 (0.918)	59	1036586	46.2299	46.230	80.00- 120.00	100.00
5.305	5.305 (0.918)	87	293368			1.00- 61.00	28.30
5.305	5.305 (0.918)	41	246435			0.00- 48.73	23.77
84 2,2-Dichloropropane					CAS #: 594-20-7		
5.506	5.513 (0.953)	77	417047	49.0504	49.050	80.00- 120.00	100.00
5.506	5.513 (0.953)	79	137093			2.28- 62.28	32.87
5.513	5.513 (0.954)	97	95531			0.00- 53.93	22.91

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
85 cis-1,2-Dichloroethene					CAS #: 156-59-2		
5.549	5.549 (0.960)	98	151667	45.7331	45.733	80.00- 120.00	100.00
5.549	5.549 (0.960)	96	230118			125.75- 185.75	151.73
5.549	5.549 (0.960)	61	589309			332.40- 392.40	388.55
86 2-Butanone					CAS #: 78-93-3		
5.556	5.556 (0.962)	72	104657	40.9548	40.955	80.00- 120.00	100.00
5.563	5.563 (0.963)	43	1815203			1214.50-1274.50	1734.43
5.556	5.556 (0.962)	57	55434			14.68- 74.68	52.97
87 Ethyl Acetate					CAS #: 141-78-6		
5.570	5.570 (0.964)	45	142866	56.2067	56.207	80.00- 120.00	100.00
5.549	5.549 (0.960)	61	589309			452.04- 512.04	412.49
5.570	5.570 (0.964)	70	51570			22.77- 82.77	36.10
89 Tetrahydrofuran					CAS #: 109-99-9		
5.778	5.778 (1.000)	42	469434	55.2354	55.235	80.00- 120.00	100.00
5.778	5.778 (1.000)	71	89556			0.00- 55.82	19.08
5.778	5.778 (1.000)	72	94915			0.00- 57.59	20.22
92 Chloroform					CAS #: 67-66-3		
5.835	5.843 (1.010)	83	477343	48.5252	48.525	80.00- 120.00	100.00
5.843	5.843 (1.011)	85	313555			34.70- 94.70	65.69
94 Cyclohexane					CAS #: 110-82-7		
5.957	5.957 (1.031)	84	298964	42.0374	42.037	80.00- 120.00	100.00
5.957	5.957 (1.031)	56	597929			142.57- 202.57	200.00
5.957	5.957 (1.031)	41	365766			62.09- 122.09	122.34
96 1,1,1-Trichloroethane					CAS #: 71-55-6		
5.972	5.972 (1.033)	97	569740	51.2685	51.268	80.00- 120.00	100.00
5.972	5.972 (1.033)	99	362670			34.02- 94.02	63.66
97 Carbon Tetrachloride					CAS #: 56-23-5		
6.093	6.093 (1.055)	119	593890	56.9808	56.981	80.00- 120.00	100.00
6.086	6.093 (1.053)	117	595536			70.64- 130.64	100.28
99 1,1-Dichloropropene					CAS #: 563-58-6		
6.115	6.122 (0.918)	110	131280	48.0892	48.089	80.00- 120.00	100.00
6.115	6.122 (0.918)	75	325403			226.85- 286.85	247.87
101 2,2,4-Trimethylpentane					CAS #: 540-84-1		
6.280	6.280 (1.087)	57	1908444	49.2991	49.299	80.00- 120.00	100.00
6.280	6.280 (1.087)	56	645683			2.24- 62.24	33.83
6.280	6.280 (1.087)	41	553056			0.00- 54.39	28.98

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
102 Benzene					CAS #: 71-43-2		
6.301	6.301 (0.946)	78	626613	47.3469	47.347	80.00- 120.00	100.00
6.301	6.301 (0.946)	77	146500			0.00- 52.90	23.38
105 tert-Amyl methyl ether					CAS #: 994-05-8		
6.358	6.358 (0.955)	87	180057	48.2497	48.250	80.00- 120.00	100.00
6.358	6.358 (0.955)	73	703123			372.79- 432.79	390.50
6.358	6.358 (0.955)	55	304757			112.09- 172.09	169.26
106 1,2-Dichloroethane					CAS #: 107-06-2		
6.380	6.380 (0.958)	62	419831	60.9648	60.965	80.00- 120.00	100.00
6.380	6.380 (0.958)	64	123588			0.79- 60.79	29.44
107 Heptane					CAS #: 142-82-5		
6.444	6.451 (0.968)	71	236160	45.0433	45.043	80.00- 120.00	100.00
6.444	6.444 (0.968)	43	821052			226.53- 286.53	347.67
6.444	6.444 (0.968)	57	367023			100.85- 160.85	155.41
110 n-Butanol					CAS #: 71-36-3		
6.810	6.810 (1.023)	56	276052	57.3715	57.371	80.00- 120.00	100.00
6.810	6.810 (1.023)	41	220484			40.99- 100.99	79.87
6.810	6.810 (1.023)	43	179802			27.38- 87.38	65.13
111 Trichloroethene					CAS #: 79-01-6		
6.867	6.867 (1.031)	95	332437	51.7658	51.766	80.00- 120.00	100.00
6.867	6.867 (1.031)	130	364735			76.29- 136.29	109.72
6.867	6.867 (1.031)	97	218182			33.63- 93.63	65.63
114 1,2-Dichloropropane					CAS #: 78-87-5		
7.096	7.096 (1.066)	63	337506	49.7433	49.743	80.00- 120.00	100.00
7.096	7.096 (1.066)	62	248042			41.07- 101.07	73.49
7.096	7.096 (1.066)	41	217685			22.53- 82.53	64.50
116 Methyl Methacrylate					CAS #: 80-62-6		
7.139	7.139 (0.755)	69	251330	46.7605	46.760	80.00- 120.00	100.00
7.139	7.139 (0.755)	41	684164			179.84- 239.84	272.22
7.139	7.139 (0.755)	100	100984			9.59- 69.59	40.18
117 1,4-Dioxane					CAS #: 123-91-1		
7.175	7.175 (1.077)	88	166802	46.2587	46.259	80.00- 120.00	100.00
7.175	7.175 (1.077)	58	184108			68.28- 128.28	110.38
7.175	7.175 (1.077)	57	68238			2.68- 62.68	40.91
118 Dibromomethane					CAS #: 74-95-3		
7.204	7.211 (0.761)	174	329360	56.7396	56.740	80.00- 120.00	100.00
7.204	7.204 (0.761)	93	298577			60.09- 120.09	90.65

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
118 Dibromomethane (continued)							
7.204	7.204 (0.761)	95	261384			48.38- 108.38	79.36
122 Bromodichloromethane					CAS #: 75-27-4		
7.318	7.318 (1.099)	83	546835	54.9183	54.918	80.00- 120.00	100.00
7.318	7.318 (1.099)	85	359382			35.24- 95.24	65.72
126 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.698	7.698 (1.156)	75	414368	49.2581	49.258	80.00- 120.00	100.00
7.698	7.698 (1.156)	77	126910			2.42- 62.42	30.63
7.691	7.691 (1.155)	39	340999			37.16- 97.16	82.29
127 Methylcyclohexane					CAS #: 108-87-2		
6.974	6.974 (1.047)	83	432931	46.5863	46.586	80.00- 120.00	100.00
6.974	6.974 (1.047)	98	208807			15.78- 75.78	48.23
6.974	6.974 (1.047)	55	584559			84.64- 144.64	135.02
131 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.798	7.798 (1.171)	58	355057	51.5315	51.531	80.00- 120.00	100.00
7.798	7.798 (1.171)	43	1156089			242.35- 302.35	325.61
7.798	7.798 (1.171)	85	104742			3.24- 63.24	29.50
137 Toluene					CAS #: 108-88-3		
7.949	7.956 (1.194)	91	881183	48.2597	48.260	80.00- 120.00	100.00
7.949	7.956 (1.194)	92	518556			28.38- 88.38	58.85
136 Octane					CAS #: 111-65-9		
7.949	7.949 (1.194)	57	417220	53.5896	53.590	80.00- 120.00	100.00
7.949	7.949 (1.194)	85	303554			56.00- 116.00	72.76
7.949	7.949 (1.194)	43	1240605			228.66- 288.66	297.35
139 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
8.214	8.214 (0.868)	75	405892	52.7276	52.728	80.00- 120.00	100.00
8.214	8.214 (0.868)	77	126798			1.24- 61.24	31.24
8.214	8.214 (0.868)	39	318856			34.11- 94.11	78.56
141 1,1,2-Trichloroethane					CAS #: 79-00-5		
8.400	8.400 (0.888)	97	333144	52.3588	52.359	80.00- 120.00	100.00
8.400	8.400 (0.888)	99	204758			31.96- 91.96	61.46
8.400	8.400 (0.888)	83	269594			52.93- 112.93	80.92
142 Tetrachloroethene					CAS #: 127-18-4		
8.464	8.464 (0.895)	166	488336	54.7757	54.776	80.00- 120.00	100.00
8.464	8.464 (0.895)	129	377594			47.84- 107.84	77.32
8.464	8.464 (0.895)	131	365908			45.29- 105.29	74.93

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
143 2-Hexanone					CAS #: 591-78-6		
8.586	8.586 (0.908)	58	498693	54.8589	54.859	80.00- 120.00	100.00
8.586	8.586 (0.908)	43	1128317			162.87- 222.87	226.25
8.586	8.586 (0.908)	100	68163			0.00- 45.94	13.67
144 1,3-Dichloropropane					CAS #: 142-28-9		
8.579	8.579 (1.288)	76	437610	50.4682	50.468	80.00- 120.00	100.00
8.579	8.579 (1.288)	41	682007			94.99- 154.99	155.85
8.579	8.579 (1.288)	78	141407			2.05- 62.05	32.31
146 Dibromochloromethane					CAS #: 124-48-1		
8.801	8.801 (0.930)	129	681454	57.3215	57.321	80.00- 120.00	100.00
8.801	8.801 (0.930)	127	528569			47.45- 107.45	77.56
148 1,2-Dibromoethane (EDB)					CAS #: 106-93-4		
8.951	8.951 (0.946)	107	553204	54.2096	54.210	80.00- 120.00	100.00
8.951	8.951 (0.946)	109	515696			64.21- 124.21	93.22
151 1-Bromo-2-Chloroethane					CAS #: 107-04-0		
7.605	7.605 (1.142)	63	632887	50.8379	50.838	80.00- 120.00	100.00
7.605	7.605 (1.142)	65	177329			0.00- 59.64	28.02
7.605	7.605 (1.142)	144	63577			0.00- 39.63	10.05
154 Chlorobenzene					CAS #: 108-90-7		
9.496	9.496 (1.004)	112	791315	50.9444	50.944	80.00- 120.00	100.00
9.496	9.496 (1.004)	114	255184			1.74- 61.74	32.25
9.496	9.496 (1.004)	77	410139			25.04- 85.04	51.83
155 Ethyl Benzene					CAS #: 100-41-4		
9.567	9.567 (1.011)	106	409746	50.4477	50.448	80.00- 120.00	100.00
9.567	9.567 (1.011)	91	1203196			273.74- 333.74	293.64
156 Nonane					CAS #: 111-84-2		
9.596	9.603 (1.014)	43	1327970	63.5469	63.547	80.00- 120.00	100.00
9.596	9.603 (1.014)	57	940624			54.16- 114.16	70.83
9.603	9.603 (1.015)	85	227278			0.00- 53.90	17.11
158 m,p-Xylene					CAS #: 108-38-3		
9.718	9.718 (1.027)	106	515817	50.7067	50.707	80.00- 120.00	100.00
9.718	9.718 (1.027)	91	970591			163.73- 223.73	188.17
164 o-Xylene					CAS #: 95-47-6		
10.226	10.226 (1.081)	106	484262	49.6858	49.686	80.00- 120.00	100.00
10.226	10.226 (1.081)	91	963474			177.45- 237.45	198.96
165 Styrene					CAS #: 100-42-5		
10.255	10.255 (1.084)	104	813368	48.7971	48.797	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
165 Styrene (continued)							
10.255	10.255 (1.084)	78	388493			17.88- 77.88	47.76
167 Bromoform					CAS #: 75-25-2		
10.542	10.542 (1.114)	173	678543	57.9052	57.905	80.00- 120.00	100.00
10.542	10.542 (1.114)	171	348731			21.25- 81.25	51.39
168 Cumene					CAS #: 98-82-8		
10.649	10.649 (1.126)	105	1528795	49.9329	49.933	80.00- 120.00	100.00
10.649	10.649 (1.126)	120	448376			0.00- 58.52	29.33
10.649	10.649 (1.126)	51	244192			0.00- 43.00	15.97
169 Cyclohexanone					CAS #: 108-94-1		
10.871	10.871 (1.149)	55	659671	60.2468	60.247	80.00- 120.00	100.00
10.871	10.871 (1.149)	98	175053			1.94- 61.94	26.54
10.871	10.871 (1.149)	42	467584			37.89- 97.89	70.88
175 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
11.100	11.100 (1.173)	83	769441	51.4894	51.489	80.00- 120.00	100.00
11.100	11.100 (1.173)	85	492369			35.20- 95.20	63.99
177 Bromobenzene					CAS #: 108-86-1		
11.107	11.107 (1.174)	156	524798	56.3582	56.358	80.00- 120.00	100.00
11.107	11.107 (1.174)	158	507089			67.21- 127.21	96.63
11.179	11.172 (1.182)	77	306194			29.02- 89.02	58.35
178 Propylbenzene					CAS #: 103-65-1		
11.150	11.150 (1.179)	120	480755	52.9567	52.957	80.00- 120.00	100.00
11.150	11.150 (1.179)	91	1851681			366.49- 426.49	385.16
11.150	11.150 (1.179)	105	71433			0.00- 44.85	14.86
179 1,2,3-Trichloropropane					CAS #: 96-18-4		
11.179	11.179 (1.182)	110	257493	54.0622	54.062	80.00- 120.00	100.00
11.179	11.179 (1.182)	75	795528			280.55- 340.55	308.95
11.100	11.100 (1.173)	61	131551			15.49- 75.49	51.09
181 trans-1,4-Dichloro-2-butene					CAS #: 110-57-6		
11.179	11.179 (1.182)	53	278808	89.2939	89.294	80.00- 120.00	100.00(R)
11.172	11.158 (1.181)	89	170006			49.11- 109.11	60.98
11.179	11.179 (1.182)	75	795528			426.44- 486.44	285.33
182 Decane					CAS #: 124-18-5		
11.251	11.251 (1.189)	57	1320217	55.4357	55.436	80.00- 120.00	100.00
11.251	11.251 (1.189)	71	310429			0.00- 57.66	23.51
11.258	11.258 (1.190)	142	47641			0.00- 34.09	3.61

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
183 4-Ethyltoluene					CAS #: 622-96-8		
11.287	11.287 (1.193)	120	533014	53.9890	53.989	80.00- 120.00	100.00
11.287	11.287 (1.193)	105	1614560			284.55- 344.55	302.91
184 2-Chlorotoluene					CAS #: 95-49-8		
11.308	11.308 (1.195)	126	424635	54.9345	54.934	80.00- 120.00	100.00
11.308	11.308 (1.195)	91	1388379			315.17- 375.17	326.96
11.301	11.301 (1.195)	65	205562			21.55- 81.55	48.41
185 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
11.365	11.365 (1.201)	120	724990	53.3368	53.337	80.00- 120.00	100.00
11.365	11.365 (1.201)	105	1383832			164.93- 224.93	190.88
188 alpha Methyl Styrene					CAS #: 98-83-9		
11.645	11.645 (1.231)	118	717310	53.1211	53.121	80.00- 120.00	100.00
11.645	11.645 (1.231)	103	394164			25.30- 85.30	54.95
189 tert-Butylbenzene					CAS #: 98-06-6		
11.738	11.745 (1.241)	119	1402398	55.1620	55.162	80.00- 120.00	100.00
11.738	11.745 (1.241)	134	335893			0.00- 54.25	23.95
11.738	11.738 (1.241)	91	819743			31.27- 91.27	58.45
190 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
11.817	11.817 (1.249)	105	1392061	54.2585	54.258	80.00- 120.00	100.00
11.817	11.817 (1.249)	120	702064			19.05- 79.05	50.43
192 sec-Butylbenzene					CAS #: 135-98-8		
11.996	11.996 (1.268)	134	441768	55.9080	55.908	80.00- 120.00	100.00
11.996	11.996 (1.268)	105	2007091			437.55- 497.55	454.33
11.996	11.996 (1.268)	91	304156			40.76- 100.76	68.85
194 p-Cymene					CAS #: 99-87-6		
12.160	12.160 (1.285)	119	1908528	54.6471	54.647	80.00- 120.00	100.00
12.160	12.160 (1.285)	134	501197			0.00- 55.54	26.26
12.160	12.160 (1.285)	91	401441			0.00- 51.48	21.03
195 1,3-Dichlorobenzene					CAS #: 541-73-1		
12.196	12.203 (1.289)	146	991741	56.4746	56.475	80.00- 120.00	100.00
12.196	12.203 (1.289)	148	639741			33.21- 93.21	64.51
12.196	12.196 (1.289)	111	400246			11.31- 71.31	40.36
196 1,4-Dichlorobenzene					CAS #: 106-46-7		
12.311	12.311 (1.301)	146	1009825	56.9046	56.905	80.00- 120.00	100.00
12.311	12.311 (1.301)	148	644734			33.90- 93.90	63.85
12.311	12.311 (1.301)	111	379402			9.45- 69.45	37.57

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
199 alpha-Chlorotoluene					CAS #: 100-44-7		
12.461	12.461 (1.317)	91	1301846	53.4224	53.422	80.00- 120.00	100.00
12.461	12.461 (1.317)	126	318472			0.00- 53.26	24.46
201 Undecane					CAS #: 1120-21-4		
12.640	12.640 (1.336)	57	1594263	57.9544	57.954	80.00- 120.00	100.00
12.640	12.640 (1.336)	43	1632328			58.12- 118.12	102.39
202 Butylbenzene					CAS #: 104-51-8		
12.626	12.626 (1.335)	134	488277	55.0469	55.047	80.00- 120.00	100.00
12.626	12.626 (1.335)	91	1625657			314.79- 374.79	332.94
12.626	12.626 (1.335)	92	854478			154.29- 214.29	175.00
204 1,2-Dichlorobenzene					CAS #: 95-50-1		
12.733	12.741 (1.346)	146	960173	55.7620	55.762	80.00- 120.00	100.00
12.733	12.741 (1.346)	148	616338			33.84- 93.84	64.19
12.733	12.733 (1.346)	111	391970			12.73- 72.73	40.82
206 1,2-Dibromo-3-chloropropane					CAS #: 96-12-8		
13.600	13.600 (1.438)	157	589238	56.4992	56.499	80.00- 120.00	100.00
13.600	13.600 (1.438)	75	484414			52.48- 112.48	82.21
13.600	13.600 (1.438)	155	459907			47.41- 107.41	78.05
207 Dodecane					CAS #: 112-40-3		
13.801	13.801 (1.459)	57	1426202	65.4092	65.409	80.00- 120.00	100.00(R)
13.801	13.801 (1.459)	43	1353262			52.87- 112.87	94.89
213 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
14.467	14.467 (1.529)	180	874670	68.7518	68.752	80.00- 120.00	100.00
14.467	14.467 (1.529)	182	836669			65.33- 125.33	95.66
215 Hexachlorobutadiene					CAS #: 87-68-3		
14.582	14.582 (1.541)	225	653804	73.0223	73.022	80.00- 120.00	100.00
14.582	14.582 (1.541)	223	415773			33.17- 93.17	63.59
216 Naphthalene					CAS #: 91-20-3		
14.761	14.768 (1.560)	128	195075	5.99975	6.000	80.00- 120.00	100.00
14.761	14.768 (1.560)	127	25071			0.00- 42.88	12.85
222 1,2,3-Trichlorobenzene					CAS #: 87-61-6		
15.069	15.069 (1.593)	180	786773	69.9564	69.956	80.00- 120.00	100.00
15.069	15.069 (1.593)	182	745467			65.75- 125.75	94.75
15.061	15.069 (1.592)	145	262273			5.23- 65.23	33.34

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p082103.d
Lab Smp Id: LCS
Analysis Type: VOA
Quant Type: ISTD
Operator: mb
Method File: /chem/msdp.i/21AUG21.b/p21q0519a.m
Misc Info: 50ppbv (200ppbv)

Calibration Date: 21-AUG-2021
Calibration Time: 09:37
Client Smp ID: LCS
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	102894	61736	144052	113059	9.88
108 1,4-Difluorobenze	387356	232414	542298	401051	3.54
153 Chlorobenzene-d5	386134	231680	540588	391175	1.31

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.79	5.46	6.12	5.78	-0.12
108 1,4-Difluorobenze	6.67	6.34	7.00	6.66	-0.11
153 Chlorobenzene-d5	9.46	9.13	9.79	9.46	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 21-Aug-2021 12:16

US32TAR1

RECOVERY REPORT

Client Name: Client SDG: 21AUG21
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: LCS Client Smp ID: LCS
Level: LOW Operator: mb
Data Type: MS DATA SampleType: LCS
SpikeList File: AT20_new.spk Quant Type: ISTD
Sublist File: AT20_new.sub
Method File: /chem/msdp.i/21AUG21.b/p21q0519a.m
Misc Info: 50ppbv (200ppbv)

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
4 Freon 134a	50.000	58.474	116.95	70-130
5 Propylene	50.000	52.896	105.79	70-130
7 1,1-Difluoroethan	50.000	46.020	92.04	70-130
8 Freon 12	50.000	52.988	105.98	70-130
9 Chlorodifluoromet	50.000	57.171	114.34	70-130
10 Freon 114	50.000	49.749	99.50	70-130
12 Isobutane	50.000	50.733	101.47	70-130
15 Chloromethane	50.000	60.643	121.29	70-130
18 Butane	50.000	43.130	86.26	70-130
19 Vinyl Chloride	50.000	45.328	90.66	70-130
20 1,3-Butadiene	50.000	55.076	110.15	70-130
24 Bromomethane	50.000	41.116	82.23	70-130
30 Chloroethane	50.000	41.555	83.11	70-130
31 Isopentane	50.000	52.729	105.46	70-130
32 Vinyl Bromide	50.000	41.369	82.74	70-130
33 Freon 11	50.000	53.449	106.90	70-130
34 Dichlorofluoromet	50.000	44.918	89.84	70-130
35 Pentane	50.000	50.790	101.58	70-130
38 Ethyl Ether	50.000	39.546	79.09	70-130
39 Ethanol	58.000	52.714	90.89	70-130
42 Acrolein	58.000	46.556	80.27	70-130
43 Freon 113	50.000	47.347	94.69	70-130
44 1,1-Dichloroethen	50.000	44.161	88.32	70-130
47 Acetone	50.000	48.097	96.19	70-130
48 Carbon Disulfide	50.000	40.869	81.74	70-130
49 Iodomethane	50.000	54.906	109.81	70-130
52 2-Propanol	50.000	54.897	109.79	70-130
54 3-Chloropropene	50.000	40.103	80.21	70-130
57 Acetonitrile	50.000	55.350	110.70	70-130
59 Methylene Chlorid	50.000	57.414	114.83	70-130
62 tert-Butyl alcoho	50.000	45.298	90.60	70-130
63 Methyl tert-butyl	50.000	42.522	85.04	70-130
64 trans-1,2-Dichlor	50.000	43.848	87.70	70-130

SPIKE	COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
66	Acrylonitrile	50.000	53.003	106.01	70-130
67	Hexane	50.000	47.400	94.80	70-130
71	1,1-Dichloroethan	50.000	47.463	94.93	70-130
72	Isopropyl ether	50.000	54.932	109.86	70-130
73	Vinyl Acetate	50.000	42.295	84.59	70-130
79	Ethyl-tert-butyl	50.000	46.230	92.46	70-130
84	2,2-Dichloropropa	50.000	49.050	98.10	70-130
85	cis-1,2-Dichloroe	50.000	45.733	91.47	70-130
86	2-Butanone	50.000	40.955	81.91	70-130
87	Ethyl Acetate	50.000	56.207	112.41	70-130
89	Tetrahydrofuran	50.000	55.235	110.47	70-130
92	Chloroform	50.000	48.525	97.05	70-130
94	Cyclohexane	50.000	42.037	84.07	70-130
96	1,1,1-Trichloroet	50.000	51.268	102.54	70-130
99	1,1-Dichloroprope	50.000	48.089	96.18	70-130
97	Carbon Tetrachlor	50.000	56.981	113.96	70-130
101	2,2,4-Trimethylpe	50.000	49.299	98.60	70-130
102	Benzene	50.000	47.347	94.69	70-130
105	tert-Amyl methyl	50.000	48.250	96.50	70-130
106	1,2-Dichloroethan	50.000	60.965	121.93	70-130
107	Heptane	50.000	45.043	90.09	70-130
110	n-Butanol	50.000	57.371	114.74	70-130
111	Trichloroethene	50.000	51.766	103.53	70-130
118	Dibromomethane	50.000	56.740	113.48	70-130
127	Methylcyclohexane	50.000	46.586	93.17	70-130
114	1,2-Dichloropropa	50.000	49.743	99.49	70-130
116	Methyl Methacryla	50.000	46.760	93.52	70-130
117	1,4-Dioxane	50.000	46.259	92.52	70-130
122	Bromodichlorometh	50.000	54.918	109.84	70-130
126	cis-1,3-Dichlorop	50.000	49.258	98.52	70-130
131	4-Methyl-2-pentan	50.000	51.531	103.06	70-130
136	Octane	50.000	53.590	107.18	70-130
137	Toluene	50.000	48.260	96.52	70-130
139	trans-1,3-Dichlor	50.000	52.728	105.46	70-130
141	1,1,2-Trichloroet	50.000	52.359	104.72	70-130
142	Tetrachloroethene	50.000	54.776	109.55	70-130
143	2-Hexanone	50.000	54.859	109.72	70-130
144	1,3-Dichloropropa	50.000	50.468	100.94	70-130
146	Dibromochlorometh	50.000	57.321	114.64	70-130
148	1,2-Dibromoethane	50.000	54.210	108.42	70-130
151	1-Bromo-2-Chloroe	50.000	50.838	101.68	70-130
154	Chlorobenzene	50.000	50.944	101.89	70-130
155	Ethyl Benzene	50.000	50.448	100.90	70-130
156	Nonane	50.000	63.547	127.09	70-130
157	1,1,1,2-Tetrachlo	50.000	0.000	*	70-130
158	m,p-Xylene	50.000	50.707	101.41	70-130
164	o-Xylene	50.000	49.686	99.37	70-130

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
165 Styrene	50.000	48.797	97.59	70-130
167 Bromoform	50.000	57.905	115.81	70-130
168 Cumene	50.000	49.933	99.87	70-130
169 Cyclohexanone	50.000	60.247	120.49	70-130
175 1,1,2,2-Tetrachlo	50.000	51.489	102.98	70-130
177 Bromobenzene	50.000	56.358	112.72	70-130
178 Propylbenzene	50.000	52.957	105.91	70-130
179 1,2,3-Trichloropr	50.000	54.062	108.12	70-130
181 trans-1,4-Dichlor	50.000	89.294	178.59*	70-130
182 Decane	50.000	55.436	110.87	70-130
183 4-Ethyltoluene	50.000	53.989	107.98	70-130
184 2-Chlorotoluene	50.000	54.934	109.87	70-130
185 1,3,5-Trimethylbe	50.000	53.337	106.67	70-130
188 alpha Methyl Styr	50.000	53.121	106.24	70-130
189 tert-Butylbenzene	50.000	55.162	110.32	70-130
190 1,2,4-Trimethylbe	50.000	54.258	108.52	70-130
192 sec-Butylbenzene	50.000	55.908	111.82	70-130
194 p-Cymene	50.000	54.647	109.29	70-130
195 1,3-Dichlorobenze	50.000	56.475	112.95	70-130
196 1,4-Dichlorobenze	50.000	56.905	113.81	70-130
199 alpha-Chlorotolue	50.000	53.422	106.84	70-130
201 Undecane	50.000	57.954	115.91	70-130
202 Butylbenzene	50.000	55.047	110.09	70-130
204 1,2-Dichlorobenze	50.000	55.762	111.52	70-130
206 1,2-Dibromo-3-chl	50.000	56.499	113.00	70-130
207 Dodecane	50.000	65.409	130.82*	70-130
213 1,2,4-Trichlorobe	58.000	68.752	118.54	70-130
215 Hexachlorobutadie	58.000	73.022	125.90	70-130
216 Naphthalene	5.800	6.000	103.44	60-140
222 1,2,3-Trichlorobe	58.000	69.956	120.61	70-130

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 104 1,2-Dichloroethan	25.000	27.087	108.35	70-130
$ 134 Toluene-d8	25.000	25.072	100.29	70-130
$ 170 4-Bromofluorobenz	25.000	27.926	111.70	70-130

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Client Sample ID: LCSD

Lab ID#: 2108390-29BB

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p082104**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/21/21 10:32 AM**	

Compound	%Recovery	Method Limits
1,1,1-Trichloroethane	102	70-130
1,1,2,2-Tetrachloroethane	102	70-130
1,1,2-Trichloroethane	104	70-130
1,1-Dichloroethane	94	70-130
1,1-Dichloroethene	88	70-130
1,2,4-Trichlorobenzene	130	70-130
1,2,4-Trimethylbenzene	107	70-130
1,2-Dibromoethane (EDB)	106	70-130
1,2-Dichlorobenzene	112	70-130
1,2-Dichloroethane	118	70-130
1,2-Dichloropropane	98	70-130
1,3,5-Trimethylbenzene	106	70-130
1,3-Butadiene	114	70-130
1,3-Dichlorobenzene	113	70-130
1,4-Dichlorobenzene	113	70-130
1,4-Dioxane	93	70-130
2,2,4-Trimethylpentane	99	70-130
2-Butanone (Methyl Ethyl Ketone)	81	70-130
2-Hexanone	109	70-130
2-Propanol	109	70-130
3-Chloropropene	82	70-130
4-Ethyltoluene	106	70-130
4-Methyl-2-pentanone	104	70-130
Acetone	95	70-130
alpha-Chlorotoluene	108	70-130
Benzene	93	70-130
Bromodichloromethane	110	70-130
Bromoform	114	70-130
Bromomethane	80	70-130
Carbon Disulfide	82	70-130
Carbon Tetrachloride	113	70-130
Chlorobenzene	102	70-130
Chloroethane	84	70-130
Chloroform	98	70-130
Chloromethane	118	70-130
cis-1,2-Dichloroethene	91	70-130
cis-1,3-Dichloropropene	97	70-130
Cumene	99	70-130
Cyclohexane	85	70-130
Dibromochloromethane	113	70-130
Ethanol	87	70-130
Ethyl Benzene	100	70-130

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Client Sample ID: LCSD

Lab ID#: 2108390-29BB

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p082104**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/21/21 10:32 AM**	

Compound	%Recovery	Method Limits
Freon 11	108	70-130
Freon 12	105	70-130
Freon 113	95	70-130
Freon 114	100	70-130
Heptane	89	70-130
Hexachlorobutadiene	137 Q	70-130
Hexane	94	70-130
m,p-Xylene	100	70-130
Methyl tert-butyl ether	85	70-130
Methylene Chloride	113	70-130
Naphthalene	116	60-140
o-Xylene	98	70-130
Propylbenzene	105	70-130
Propylene	105	60-140
Styrene	97	70-130
Tetrachloroethene	107	70-130
Tetrahydrofuran	111	70-130
Toluene	96	70-130
trans-1,2-Dichloroethene	89	70-130
trans-1,3-Dichloropropene	104	70-130
Trichloroethene	103	70-130
Vinyl Acetate	84	70-130
Vinyl Chloride	87	70-130

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	108	70-130
4-Bromofluorobenzene	110	70-130

US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem1/msdp.i/21AUG21.b/p082104.d
Lab Smp Id: LCSD Client Smp ID: LCSD
Inj Date : 21-AUG-2021 10:32
Operator : mb Inst ID: msdp.i
Smp Info : 50mL 3018-2173
Misc Info : 50ppbv (200ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/21AUG21.b/p21q0519a.m
Meth Date : 21-Aug-2021 12:16 x8uy Quant Type: ISTD
Cal Date : 19-MAY-2021 19:45 Cal File: p051915.d
Als bottle: 14 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT20_new.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE		(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 90 Bromochloromethane							CAS #: 74-97-5	
5.778	5.785 (1.000)	130	116975	25.0000			80.00- 120.00	100.00
5.778	5.785 (1.000)	128	90332				48.23- 108.23	77.22
5.778	5.778 (1.000)	49	255982				150.57- 210.57	218.83
* 108 1,4-Difluorobenzene							CAS #: 540-36-3	
6.666	6.666 (1.000)	114	422374	25.0000			80.00- 120.00	100.00
6.666	6.659 (1.000)	88	60493				0.00- 45.71	14.32
* 153 Chlorobenzene-d5							CAS #: 3114-55-4	
9.460	9.460 (1.000)	117	408689	25.0000			80.00- 120.00	100.00
9.460	9.460 (1.000)	82	212172				23.78- 83.78	51.92
$ 104 1,2-Dichloroethane-d4							CAS #: 17060-07-0	
6.308	6.315 (1.092)	65	173576	26.8879	26.888		80.00- 120.00	100.00
6.308	6.315 (1.092)	67	92413				27.21- 87.21	53.24
$ 134 Toluene-d8							CAS #: 2037-26-5	
7.891	7.891 (1.184)	98	458350	24.9903	24.990		80.00- 120.00	100.00
7.891	7.891 (1.184)	70	46421				0.00- 40.44	10.13

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 134 Toluene-d8 (continued)							
7.891	7.891 (1.184)	100	293210			34.95- 94.95	63.97
$ 170 4-Bromofluorobenzene					CAS #: 460-00-4		
10.921	10.921 (1.154)	174	289441	27.5798	27.580	80.00- 120.00	100.00
10.914	10.914 (1.154)	95	338040			95.92- 155.92	116.79
10.921	10.921 (1.154)	176	278187			66.89- 126.89	96.11
4 Freon 134a					CAS #: 811-97-2		
1.647	1.647 (0.285)	83	216009	58.3446	58.345	80.00- 120.00	100.00
1.633	1.647 (0.283)	69	155531			59.44- 119.44	72.00
1.745	1.759 (0.302)	51	963048			419.06- 479.06	445.84
5 Propylene					CAS #: 115-07-1		
1.675	1.689 (0.290)	41	281214	52.5352	52.535	80.00- 120.00	100.00
1.675	1.689 (0.290)	42	190776			35.28- 95.28	67.84
1.675	1.689 (0.290)	39	193295			38.35- 98.35	68.74
7 1,1-Difluoroethane					CAS #: 75-37-6		
1.703	1.703 (0.295)	65	122673	46.2663	46.266	80.00- 120.00	100.00
1.745	1.759 (0.302)	51	963048			597.63- 657.63	785.05
1.703	1.717 (0.295)	47	106803			33.72- 93.72	87.06
8 Freon 12					CAS #: 75-71-8		
1.717	1.717 (0.297)	85	551772	52.5928	52.593	80.00- 120.00	100.00
1.717	1.717 (0.297)	87	180591			2.37- 62.37	32.73
9 Chlorodifluoromethane					CAS #: 75-45-6		
1.745	1.759 (0.302)	67	59200	57.1243	57.124	80.00- 120.00	100.00
1.745	1.759 (0.302)	51	963048			1501.01-1561.01	1626.77
10 Freon 114					CAS #: 76-14-2		
1.856	1.857 (0.321)	135	512395	49.7543	49.754	80.00- 120.00	100.00
1.856	1.857 (0.321)	137	167024			2.30- 62.30	32.60
12 Isobutane					CAS #: 75-28-5		
1.870	1.870 (0.324)	43	603592	50.9329	50.933	80.00- 120.00	100.00
1.870	1.870 (0.324)	42	199291			2.44- 62.44	33.02
1.870	1.870 (0.324)	58	16976			0.00- 33.36	2.81
15 Chloromethane					CAS #: 74-87-3		
1.940	1.954 (0.336)	50	359901	59.1306	59.131	80.00- 120.00	100.00
1.940	1.954 (0.336)	52	92023			0.00- 56.26	25.57
18 Butane					CAS #: 106-97-8		
2.032	2.046 (0.352)	58	62349	44.2214	44.221	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
18 Butane (continued)							
2.032	2.039 (0.352)	43	546628			823.29- 883.29	876.72
19 Vinyl Chloride					CAS #: 75-01-4		
2.068	2.075 (0.358)	62	318063	43.4379	43.438	80.00- 120.00	100.00
2.075	2.075 (0.359)	64	90247			0.00- 59.69	28.37
20 1,3-Butadiene					CAS #: 106-99-0		
2.096	2.104 (0.363)	54	337309	57.2758	57.276	80.00- 120.00	100.00
2.089	2.096 (0.362)	39	284317			52.37- 112.37	84.29
24 Bromomethane					CAS #: 74-83-9		
2.483	2.490 (0.430)	94	189204	40.1861	40.186	80.00- 120.00	100.00
2.483	2.490 (0.430)	96	183772			64.07- 124.07	97.13
30 Chloroethane					CAS #: 75-00-3		
2.612	2.612 (0.452)	64	110082	41.8084	41.808	80.00- 120.00	100.00
2.612	2.619 (0.452)	66	31367			0.04- 60.04	28.49
2.612	2.619 (0.452)	49	49693			4.54- 64.54	45.14
31 Isopentane					CAS #: 78-78-4		
2.634	2.641 (0.456)	43	412911	51.5377	51.538	80.00- 120.00	100.00
2.634	2.641 (0.456)	57	234085			34.12- 94.12	56.69
32 Vinyl Bromide					CAS #: 593-60-2		
2.848	2.848 (0.493)	106	181708	41.7542	41.754	80.00- 120.00	100.00
2.841	2.848 (0.492)	108	179727			69.27- 129.27	98.91
33 Freon 11					CAS #: 75-69-4		
2.891	2.891 (0.500)	101	600233	53.8381	53.838	80.00- 120.00	100.00
2.891	2.891 (0.500)	103	388625			34.72- 94.72	64.75
34 Dichlorofluoromethane					CAS #: 75-43-4		
2.899	2.906 (0.502)	67	428293	44.5715	44.571	80.00- 120.00	100.00
2.899	2.906 (0.502)	69	130456			0.84- 60.84	30.46
35 Pentane					CAS #: 109-66-0		
2.970	2.977 (0.514)	43	650023	49.9148	49.915	80.00- 120.00	100.00
2.970	2.977 (0.514)	57	84727			0.00- 44.98	13.03
2.970	2.970 (0.514)	72	33585			0.00- 37.39	5.17
38 Ethyl Ether					CAS #: 60-29-7		
3.285	3.293 (0.569)	74	88032	40.0684	40.068	80.00- 120.00	100.00
3.285	3.293 (0.569)	59	197236			163.46- 223.46	224.05
3.285	3.285 (0.569)	45	336913			250.40- 310.40	382.72

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
39 Ethanol					CAS #: 64-17-5		
3.242	3.250 (0.561)	46	58512	50.4399	50.440	80.00- 120.00	100.00
3.285	3.285 (0.569)	45	335418			511.19- 571.19	573.25
42 Acrolein					CAS #: 107-02-8		
3.536	3.543 (0.612)	55	89111	44.2697	44.270	80.00- 120.00	100.00
3.536	3.543 (0.612)	56	126615			111.10- 171.10	142.09
43 Freon 113					CAS #: 76-13-1		
3.550	3.558 (0.614)	151	393712	47.5311	47.531	80.00- 120.00	100.00
3.550	3.558 (0.614)	153	254671			33.56- 93.56	64.68
3.550	3.550 (0.614)	101	464980			89.21- 149.21	118.10
44 1,1-Dichloroethene					CAS #: 75-35-4		
3.586	3.586 (0.621)	96	217144	43.8821	43.882	80.00- 120.00	100.00
3.586	3.586 (0.621)	98	137650			34.02- 94.02	63.39
3.586	3.586 (0.621)	61	481151			168.77- 228.77	221.58
47 Acetone					CAS #: 67-64-1		
3.715	3.722 (0.643)	58	145603	47.4798	47.480	80.00- 120.00	100.00
3.715	3.722 (0.643)	43	568832			302.95- 362.95	390.67
48 Carbon Disulfide					CAS #: 75-15-0		
3.823	3.830 (0.662)	76	533331	40.9102	40.910	80.00- 120.00	100.00
49 Iodomethane					CAS #: 74-88-4		
3.794	3.794 (0.657)	142	503078	58.0504	58.050	80.00- 120.00	100.00
3.794	3.794 (0.657)	127	246282			12.22- 72.22	48.96
52 2-Propanol					CAS #: 67-63-0		
3.887	3.894 (0.673)	45	676487	54.7343	54.734	80.00- 120.00	100.00
3.887	3.887 (0.673)	43	128684			0.00- 47.19	19.02
54 3-Chloropropene					CAS #: 107-05-1		
4.052	4.052 (0.701)	76	89251	40.9803	40.980	80.00- 120.00	100.00
4.052	4.052 (0.701)	41	477358			396.19- 456.19	534.85
57 Acetonitrile					CAS #: 75-05-8		
4.131	4.131 (0.715)	41	317535	55.1228	55.123	80.00- 120.00	100.00
4.123	4.131 (0.714)	40	164912			20.95- 80.95	51.94
4.123	4.131 (0.714)	38	36447			0.00- 41.17	11.48
59 Methylene Chloride					CAS #: 75-09-2		
4.238	4.238 (0.733)	49	451289	56.6565	56.656	80.00- 120.00	100.00
4.238	4.238 (0.733)	84	170140			22.03- 82.03	37.70
4.238	4.238 (0.733)	51	133507			0.18- 60.18	29.58

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
62 tert-Butyl alcohol					CAS #: 75-65-0		
4.338	4.346 (0.751)	59	652677	45.2837	45.284	80.00- 120.00	100.00
4.338	4.338 (0.751)	41	164736			0.00- 51.11	25.24
4.346	4.338 (0.752)	57	71870			0.00- 40.49	11.01
63 Methyl tert-butyl ether					CAS #: 1634-04-4		
4.446	4.446 (0.769)	73	612172	42.6144	42.614	80.00- 120.00	100.00
4.446	4.446 (0.769)	57	229262			3.10- 63.10	37.45
4.446	4.446 (0.769)	41	246762			1.28- 61.28	40.31
64 trans-1,2-Dichloroethene					CAS #: 156-60-5		
4.482	4.482 (0.776)	98	146693	44.3667	44.367	80.00- 120.00	100.00
4.482	4.482 (0.776)	61	438475			255.84- 315.84	298.91
4.482	4.482 (0.776)	96	225632			127.59- 187.59	153.81
66 Acrylonitrile					CAS #: 107-13-1		
4.560	4.568 (0.789)	52	240018	52.1477	52.148	80.00- 120.00	100.00
4.560	4.568 (0.789)	53	288921			88.05- 148.05	120.37
67 Hexane					CAS #: 110-54-3		
4.697	4.697 (0.813)	57	544819	47.2794	47.279	80.00- 120.00	100.00
4.697	4.697 (0.813)	43	424386			37.52- 97.52	77.89
4.697	4.697 (0.813)	86	55612			0.00- 41.48	10.21
71 1,1-Dichloroethane					CAS #: 75-34-3		
4.969	4.969 (0.860)	63	468007	47.2428	47.243	80.00- 120.00	100.00
4.969	4.969 (0.860)	65	137113			0.00- 59.70	29.30
72 Isopropyl ether					CAS #: 108-20-3		
4.954	4.947 (0.857)	45	1459310	54.4513	54.451	80.00- 120.00	100.00
4.954	4.954 (0.857)	87	205035			0.00- 48.18	14.05
4.954	4.954 (0.857)	59	126715			0.00- 40.15	8.68
73 Vinyl Acetate					CAS #: 108-05-4		
4.997	4.997 (0.865)	86	53231	41.8107	41.811	80.00- 120.00	100.00
4.990	4.997 (0.864)	43	1292481			2432.48-2492.48	2428.06
79 Ethyl-tert-butyl ether					CAS #: 637-92-3		
5.305	5.305 (0.918)	59	1084624	46.7529	46.753	80.00- 120.00	100.00
5.305	5.305 (0.918)	87	309783			1.00- 61.00	28.56
5.305	5.305 (0.918)	41	248264			0.00- 48.73	22.89
84 2,2-Dichloropropane					CAS #: 594-20-7		
5.513	5.513 (0.954)	77	438596	49.8579	49.858	80.00- 120.00	100.00
5.513	5.513 (0.954)	79	140095			2.28- 62.28	31.94
5.513	5.513 (0.954)	97	98624			0.00- 53.93	22.49

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
85 cis-1,2-Dichloroethene					CAS #: 156-59-2		
5.549	5.549 (0.960)	98	156521	45.6168	45.617	80.00- 120.00	100.00
5.549	5.549 (0.960)	96	238422			125.75- 185.75	152.33
5.549	5.549 (0.960)	61	600054			332.40- 392.40	383.37
86 2-Butanone					CAS #: 78-93-3		
5.556	5.556 (0.962)	72	107396	40.6197	40.620	80.00- 120.00	100.00
5.563	5.563 (0.963)	43	1854512			1214.50-1274.50	1726.80
5.556	5.556 (0.962)	57	59338			14.68- 74.68	55.25
87 Ethyl Acetate					CAS #: 141-78-6		
5.578	5.570 (0.965)	45	147770	56.1898	56.190	80.00- 120.00	100.00
5.549	5.549 (0.960)	61	600054			452.04- 512.04	406.07
5.578	5.570 (0.965)	70	54094			22.77- 82.77	36.61
89 Tetrahydrofuran					CAS #: 109-99-9		
5.778	5.778 (1.000)	42	488191	55.5194	55.519	80.00- 120.00	100.00
5.778	5.778 (1.000)	71	93442			0.00- 55.82	19.14
5.778	5.778 (1.000)	72	100205			0.00- 57.59	20.53
92 Chloroform					CAS #: 67-66-3		
5.843	5.843 (1.011)	83	500466	49.1726	49.173	80.00- 120.00	100.00
5.843	5.843 (1.011)	85	329611			34.70- 94.70	65.86
94 Cyclohexane					CAS #: 110-82-7		
5.957	5.957 (1.031)	84	313027	42.5413	42.541	80.00- 120.00	100.00
5.957	5.957 (1.031)	56	620035			142.57- 202.57	198.08
5.957	5.957 (1.031)	41	378679			62.09- 122.09	120.97
96 1,1,1-Trichloroethane					CAS #: 71-55-6		
5.972	5.972 (1.033)	97	584116	50.8025	50.802	80.00- 120.00	100.00
5.972	5.972 (1.033)	99	377031			34.02- 94.02	64.55
97 Carbon Tetrachloride					CAS #: 56-23-5		
6.093	6.093 (1.055)	119	607892	56.3716	56.372	80.00- 120.00	100.00
6.093	6.093 (1.055)	117	606036			70.64- 130.64	99.69
99 1,1-Dichloropropene					CAS #: 563-58-6		
6.122	6.122 (0.918)	110	138804	48.2785	48.278	80.00- 120.00	100.00
6.122	6.122 (0.918)	75	336115			226.85- 286.85	242.15
101 2,2,4-Trimethylpentane					CAS #: 540-84-1		
6.280	6.280 (1.087)	57	1982554	49.4991	49.499	80.00- 120.00	100.00
6.280	6.280 (1.087)	56	674431			2.24- 62.24	34.02
6.280	6.280 (1.087)	41	559933			0.00- 54.39	28.24

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
102 Benzene					CAS #: 71-43-2		
6.301	6.301 (0.945)	78	649254	46.5811	46.581	80.00- 120.00	100.00
6.301	6.301 (0.945)	77	151904			0.00- 52.90	23.40
105 tert-Amyl methyl ether					CAS #: 994-05-8		
6.358	6.358 (0.954)	87	190746	48.5336	48.534	80.00- 120.00	100.00
6.358	6.358 (0.954)	73	741263			372.79- 432.79	388.61
6.358	6.358 (0.954)	55	312024			112.09- 172.09	163.58
106 1,2-Dichloroethane					CAS #: 107-06-2		
6.380	6.380 (0.957)	62	429132	59.1695	59.170	80.00- 120.00	100.00
6.380	6.380 (0.957)	64	132985			0.79- 60.79	30.99
107 Heptane					CAS #: 142-82-5		
6.451	6.451 (0.968)	71	245626	44.4837	44.484	80.00- 120.00	100.00
6.444	6.444 (0.967)	43	858436			226.53- 286.53	349.49
6.444	6.444 (0.967)	57	389665			100.85- 160.85	158.64
110 n-Butanol					CAS #: 71-36-3		
6.810	6.810 (1.021)	56	289918	57.2114	57.211	80.00- 120.00	100.00
6.810	6.810 (1.021)	41	227867			40.99- 100.99	78.60
6.810	6.810 (1.021)	43	187151			27.38- 87.38	64.55
111 Trichloroethene					CAS #: 79-01-6		
6.867	6.867 (1.030)	95	348274	51.4941	51.494	80.00- 120.00	100.00
6.867	6.867 (1.030)	130	381745			76.29- 136.29	109.61
6.867	6.867 (1.030)	97	223802			33.63- 93.63	64.26
114 1,2-Dichloropropane					CAS #: 78-87-5		
7.096	7.096 (1.064)	63	349007	48.8416	48.842	80.00- 120.00	100.00
7.096	7.096 (1.064)	62	251760			41.07- 101.07	72.14
7.096	7.096 (1.064)	41	262704			22.53- 82.53	75.27
116 Methyl Methacrylate					CAS #: 80-62-6		
7.139	7.139 (0.755)	69	262315	46.7128	46.713	80.00- 120.00	100.00
7.139	7.139 (0.755)	41	664702			179.84- 239.84	253.40
7.139	7.139 (0.755)	100	103474			9.59- 69.59	39.45
117 1,4-Dioxane					CAS #: 123-91-1		
7.175	7.175 (1.076)	88	175835	46.3020	46.302	80.00- 120.00	100.00
7.175	7.175 (1.076)	58	196692			68.28- 128.28	111.86
7.175	7.175 (1.076)	57	68054			2.68- 62.68	38.70
118 Dibromomethane					CAS #: 74-95-3		
7.211	7.211 (0.762)	174	336842	55.5418	55.542	80.00- 120.00	100.00
7.204	7.204 (0.761)	93	306263			60.09- 120.09	90.92

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
118 Dibromomethane (continued)							
7.204	7.204 (0.761)	95	268177			48.38- 108.38	79.62
122 Bromodichloromethane					CAS #: 75-27-4		
7.318	7.318 (1.098)	83	577290	55.0500	55.050	80.00- 120.00	100.00
7.318	7.318 (1.098)	85	372764			35.24- 95.24	64.57
126 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.698	7.698 (1.155)	75	429963	48.5316	48.532	80.00- 120.00	100.00
7.698	7.698 (1.155)	77	135510			2.42- 62.42	31.52
7.698	7.691 (1.155)	39	351728			37.16- 97.16	81.80
127 Methylcyclohexane					CAS #: 108-87-2		
6.974	6.974 (1.046)	83	450838	46.0641	46.064	80.00- 120.00	100.00
6.974	6.974 (1.046)	98	219242			15.78- 75.78	48.63
6.974	6.974 (1.046)	55	603196			84.64- 144.64	133.79
131 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.798	7.798 (1.170)	58	376536	51.8900	51.890	80.00- 120.00	100.00
7.798	7.798 (1.170)	43	1189284			242.35- 302.35	315.85
7.798	7.798 (1.170)	85	108058			3.24- 63.24	28.70
137 Toluene					CAS #: 108-88-3		
7.956	7.956 (1.193)	91	925900	48.1488	48.149	80.00- 120.00	100.00
7.956	7.956 (1.193)	92	535486			28.38- 88.38	57.83
136 Octane					CAS #: 111-65-9		
7.949	7.949 (1.192)	57	427466	52.1338	52.134	80.00- 120.00	100.00
7.949	7.949 (1.192)	85	311871			56.00- 116.00	72.96
7.949	7.949 (1.192)	43	1267487			228.66- 288.66	296.51
139 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
8.214	8.214 (0.868)	75	419882	52.2075	52.207	80.00- 120.00	100.00
8.214	8.214 (0.868)	77	131614			1.24- 61.24	31.35
8.214	8.214 (0.868)	39	326159			34.11- 94.11	77.68
141 1,1,2-Trichloroethane					CAS #: 79-00-5		
8.400	8.400 (0.888)	97	344102	51.7635	51.763	80.00- 120.00	100.00
8.400	8.400 (0.888)	99	211688			31.96- 91.96	61.52
8.400	8.400 (0.888)	83	288527			52.93- 112.93	83.85
142 Tetrachloroethene					CAS #: 127-18-4		
8.464	8.464 (0.895)	166	500458	53.7297	53.730	80.00- 120.00	100.00
8.464	8.464 (0.895)	129	389817			47.84- 107.84	77.89
8.464	8.464 (0.895)	131	377597			45.29- 105.29	75.45

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
143 2-Hexanone					CAS #: 591-78-6		
8.586	8.586 (0.908)	58	518404	54.5834	54.583	80.00- 120.00	100.00
8.586	8.586 (0.908)	43	1147131			162.87- 222.87	221.28
8.586	8.586 (0.908)	100	70980			0.00- 45.94	13.69
144 1,3-Dichloropropane					CAS #: 142-28-9		
8.579	8.579 (1.287)	76	445608	48.7962	48.796	80.00- 120.00	100.00
8.579	8.579 (1.287)	41	692466			94.99- 154.99	155.40
8.579	8.579 (1.287)	78	144556			2.05- 62.05	32.44
146 Dibromochloromethane					CAS #: 124-48-1		
8.801	8.801 (0.930)	129	704360	56.7092	56.709	80.00- 120.00	100.00
8.801	8.801 (0.930)	127	544717			47.45- 107.45	77.34
148 1,2-Dibromoethane (EDB)					CAS #: 106-93-4		
8.951	8.951 (0.946)	107	568067	53.2805	53.280	80.00- 120.00	100.00
8.951	8.951 (0.946)	109	539396			64.21- 124.21	94.95
151 1-Bromo-2-Chloroethane					CAS #: 107-04-0		
7.605	7.605 (1.141)	63	653325	49.8302	49.830	80.00- 120.00	100.00
7.605	7.605 (1.141)	65	186077			0.00- 59.64	28.48
7.605	7.605 (1.141)	144	65011			0.00- 39.63	9.95
154 Chlorobenzene					CAS #: 108-90-7		
9.496	9.496 (1.004)	112	824575	50.8108	50.811	80.00- 120.00	100.00
9.496	9.496 (1.004)	114	261378			1.74- 61.74	31.70
9.496	9.496 (1.004)	77	426861			25.04- 85.04	51.77
155 Ethyl Benzene					CAS #: 100-41-4		
9.567	9.567 (1.011)	106	422546	49.7942	49.794	80.00- 120.00	100.00
9.567	9.567 (1.011)	91	1263638			273.74- 333.74	299.05
156 Nonane					CAS #: 111-84-2		
9.603	9.603 (1.015)	43	1338142	61.2896	61.290	80.00- 120.00	100.00
9.603	9.603 (1.015)	57	963974			54.16- 114.16	72.04
9.603	9.603 (1.015)	85	244651			0.00- 53.90	18.28
158 m,p-Xylene					CAS #: 108-38-3		
9.718	9.718 (1.027)	106	530873	49.9503	49.950	80.00- 120.00	100.00
9.718	9.718 (1.027)	91	1014322			163.73- 223.73	191.07
164 o-Xylene					CAS #: 95-47-6		
10.226	10.226 (1.081)	106	498639	48.9685	48.968	80.00- 120.00	100.00
10.226	10.226 (1.081)	91	1004416			177.45- 237.45	201.43
165 Styrene					CAS #: 100-42-5		
10.255	10.255 (1.084)	104	845223	48.5352	48.535	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
165 Styrene (continued)							
10.255	10.255 (1.084)	78	395156			17.88- 77.88	46.75
167 Bromoform					CAS #: 75-25-2		
10.542	10.542 (1.114)	173	699890	57.1673	57.167	80.00- 120.00	100.00
10.542	10.542 (1.114)	171	359806			21.25- 81.25	51.41
168 Cumene					CAS #: 98-82-8		
10.649	10.649 (1.126)	105	1583799	49.5126	49.513	80.00- 120.00	100.00
10.649	10.649 (1.126)	120	460987			0.00- 58.52	29.11
10.649	10.649 (1.126)	51	256106			0.00- 43.00	16.17
169 Cyclohexanone					CAS #: 108-94-1		
10.871	10.871 (1.149)	55	680995	59.5290	59.529	80.00- 120.00	100.00
10.871	10.871 (1.149)	98	183857			1.94- 61.94	27.00
10.871	10.871 (1.149)	42	471282			37.89- 97.89	69.20
175 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
11.100	11.100 (1.173)	83	793897	50.8493	50.849	80.00- 120.00	100.00
11.100	11.100 (1.173)	85	513710			35.20- 95.20	64.71
177 Bromobenzene					CAS #: 108-86-1		
11.107	11.107 (1.174)	156	534607	54.9512	54.951	80.00- 120.00	100.00
11.107	11.107 (1.174)	158	521814			67.21- 127.21	97.61
11.179	11.172 (1.182)	77	317364			29.02- 89.02	59.36
178 Propylbenzene					CAS #: 103-65-1		
11.150	11.150 (1.179)	120	496474	52.3445	52.344	80.00- 120.00	100.00
11.150	11.150 (1.179)	91	1908718			366.49- 426.49	384.45
11.150	11.150 (1.179)	105	70682			0.00- 44.85	14.24
179 1,2,3-Trichloropropane					CAS #: 96-18-4		
11.179	11.179 (1.182)	110	261554	52.5615	52.561	80.00- 120.00	100.00
11.179	11.179 (1.182)	75	829768			280.55- 340.55	317.25
11.100	11.100 (1.173)	61	132615			15.49- 75.49	50.70
181 trans-1,4-Dichloro-2-butene					CAS #: 110-57-6		
11.179	11.179 (1.182)	53	282638	86.6413	86.641	80.00- 120.00	100.00(R)
11.179	11.158 (1.182)	89	175297			49.11- 109.11	62.02
11.179	11.179 (1.182)	75	829768			426.44- 486.44	293.58
182 Decane					CAS #: 124-18-5		
11.251	11.251 (1.189)	57	1340836	53.8888	53.889	80.00- 120.00	100.00
11.251	11.251 (1.189)	71	326734			0.00- 57.66	24.37
11.258	11.258 (1.190)	142	50844			0.00- 34.09	3.79

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
183 4-Ethyltoluene					CAS #: 622-96-8		
11.287	11.287 (1.193)	120	547341	53.0644	53.064	80.00- 120.00	100.00
11.287	11.287 (1.193)	105	1662614			284.55- 344.55	303.76
184 2-Chlorotoluene					CAS #: 95-49-8		
11.308	11.308 (1.195)	126	440234	54.5119	54.512	80.00- 120.00	100.00
11.308	11.308 (1.195)	91	1435113			315.17- 375.17	325.99
11.301	11.301 (1.195)	65	216619			21.55- 81.55	49.21
185 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
11.365	11.365 (1.201)	120	753594	53.0653	53.065	80.00- 120.00	100.00
11.365	11.365 (1.201)	105	1419287			164.93- 224.93	188.34
188 alpha Methyl Styrene					CAS #: 98-83-9		
11.645	11.645 (1.231)	118	733657	52.0034	52.003	80.00- 120.00	100.00
11.645	11.645 (1.231)	103	403839			25.30- 85.30	55.04
189 tert-Butylbenzene					CAS #: 98-06-6		
11.738	11.745 (1.241)	119	1437834	54.1322	54.132	80.00- 120.00	100.00
11.745	11.745 (1.242)	134	352636			0.00- 54.25	24.53
11.738	11.738 (1.241)	91	841324			31.27- 91.27	58.51
190 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
11.817	11.817 (1.249)	105	1435243	53.5443	53.544	80.00- 120.00	100.00
11.817	11.817 (1.249)	120	729140			19.05- 79.05	50.80
192 sec-Butylbenzene					CAS #: 135-98-8		
11.996	11.996 (1.268)	134	458156	55.4973	55.497	80.00- 120.00	100.00
11.996	11.996 (1.268)	105	2069303			437.55- 497.55	451.66
11.996	11.996 (1.268)	91	313914			40.76- 100.76	68.52
194 p-Cymene					CAS #: 99-87-6		
12.160	12.160 (1.285)	119	1974780	54.1210	54.121	80.00- 120.00	100.00
12.160	12.160 (1.285)	134	515667			0.00- 55.54	26.11
12.160	12.160 (1.285)	91	416731			0.00- 51.48	21.10
195 1,3-Dichlorobenzene					CAS #: 541-73-1		
12.203	12.203 (1.290)	146	1040083	56.6893	56.689	80.00- 120.00	100.00
12.203	12.203 (1.290)	148	659926			33.21- 93.21	63.45
12.196	12.196 (1.289)	111	402882			11.31- 71.31	38.74
196 1,4-Dichlorobenzene					CAS #: 106-46-7		
12.311	12.311 (1.301)	146	1045207	56.3744	56.374	80.00- 120.00	100.00
12.311	12.311 (1.301)	148	661013			33.90- 93.90	63.24
12.311	12.311 (1.301)	111	394684			9.45- 69.45	37.76

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
199 alpha-Chlorotoluene					CAS #: 100-44-7		
12.468	12.461 (1.318)	91	1369117	53.7752	53.775	80.00- 120.00	100.00
12.468	12.461 (1.318)	126	326444			0.00- 53.26	23.84
201 Undecane					CAS #: 1120-21-4		
12.640	12.640 (1.336)	57	1677972	58.3834	58.383	80.00- 120.00	100.00
12.640	12.640 (1.336)	43	1709217			58.12- 118.12	101.86
202 Butylbenzene					CAS #: 104-51-8		
12.626	12.626 (1.335)	134	505105	54.5037	54.504	80.00- 120.00	100.00
12.626	12.626 (1.335)	91	1707893			314.79- 374.79	338.13
12.626	12.626 (1.335)	92	886168			154.29- 214.29	175.44
204 1,2-Dichlorobenzene					CAS #: 95-50-1		
12.741	12.741 (1.347)	146	1007075	55.9795	55.980	80.00- 120.00	100.00
12.741	12.741 (1.347)	148	640743			33.84- 93.84	63.62
12.741	12.733 (1.347)	111	411811			12.73- 72.73	40.89
206 1,2-Dibromo-3-chloropropane					CAS #: 96-12-8		
13.614	13.600 (1.439)	157	623462	57.2189	57.219	80.00- 120.00	100.00
13.614	13.600 (1.439)	75	508537			52.48- 112.48	81.57
13.614	13.600 (1.439)	155	492299			47.41- 107.41	78.96
207 Dodecane					CAS #: 112-40-3		
13.822	13.801 (1.461)	57	1779455	78.1129	78.113	80.00- 120.00	100.00(R)
13.822	13.801 (1.461)	43	1670681			52.87- 112.87	93.89
213 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
14.496	14.467 (1.532)	180	1006728	75.7408	75.741	80.00- 120.00	100.00(R)
14.496	14.467 (1.532)	182	964268			65.33- 125.33	95.78
215 Hexachlorobutadiene					CAS #: 87-68-3		
14.617	14.582 (1.545)	225	744708	79.6108	79.611	80.00- 120.00	100.00(R)
14.617	14.582 (1.545)	223	467646			33.17- 93.17	62.80
216 Naphthalene					CAS #: 91-20-3		
14.804	14.768 (1.565)	128	228617	6.73004	6.730	80.00- 120.00	100.00
14.796	14.768 (1.564)	127	29929			0.00- 42.88	13.09
222 1,2,3-Trichlorobenzene					CAS #: 87-61-6		
15.104	15.069 (1.597)	180	957768	81.5111	81.511	80.00- 120.00	100.00(R)
15.104	15.069 (1.597)	182	910874			65.75- 125.75	95.10
15.104	15.069 (1.597)	145	323068			5.23- 65.23	33.73

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p082104.d
Lab Smp Id: LCSD
Analysis Type: VOA
Quant Type: ISTD
Operator: mb
Method File: /chem/msdp.i/21AUG21.b/p21q0519a.m
Misc Info: 50ppbv (200ppbv)

Calibration Date: 21-AUG-2021
Calibration Time: 09:37
Client Smp ID: LCSD
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	102894	61736	144052	116975	13.68
108 1,4-Difluorobenze	387356	232414	542298	422374	9.04
153 Chlorobenzene-d5	386134	231680	540588	408689	5.84

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.79	5.46	6.12	5.78	-0.12
108 1,4-Difluorobenze	6.67	6.34	7.00	6.67	-0.00
153 Chlorobenzene-d5	9.46	9.13	9.79	9.46	-0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 21-Aug-2021 12:16

US32TAR1

RECOVERY REPORT

Client Name: Client SDG: 21AUG21
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: LCSD Client Smp ID: LCSD
Level: LOW Operator: mb
Data Type: MS DATA SampleType: LCSD
SpikeList File: AT20_new.spk Quant Type: ISTD
Sublist File: AT20_new.sub
Method File: /chem/msdp.i/21AUG21.b/p21q0519a.m
Misc Info: 50ppbv (200ppbv)

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
4 Freon 134a	50.000	58.345	116.69	70-130
5 Propylene	50.000	52.535	105.07	70-130
7 1,1-Difluoroethan	50.000	46.266	92.53	70-130
8 Freon 12	50.000	52.593	105.19	70-130
9 Chlorodifluoromet	50.000	57.124	114.25	70-130
10 Freon 114	50.000	49.754	99.51	70-130
12 Isobutane	50.000	50.933	101.87	70-130
15 Chloromethane	50.000	59.131	118.26	70-130
18 Butane	50.000	44.221	88.44	70-130
19 Vinyl Chloride	50.000	43.438	86.88	70-130
20 1,3-Butadiene	50.000	57.276	114.55	70-130
24 Bromomethane	50.000	40.186	80.37	70-130
30 Chloroethane	50.000	41.808	83.62	70-130
31 Isopentane	50.000	51.538	103.08	70-130
32 Vinyl Bromide	50.000	41.754	83.51	70-130
33 Freon 11	50.000	53.838	107.68	70-130
34 Dichlorofluoromet	50.000	44.571	89.14	70-130
35 Pentane	50.000	49.915	99.83	70-130
38 Ethyl Ether	50.000	40.068	80.14	70-130
39 Ethanol	58.000	50.440	86.97	70-130
42 Acrolein	58.000	44.270	76.33	70-130
43 Freon 113	50.000	47.531	95.06	70-130
44 1,1-Dichloroethen	50.000	43.882	87.76	70-130
47 Acetone	50.000	47.480	94.96	70-130
48 Carbon Disulfide	50.000	40.910	81.82	70-130
49 Iodomethane	50.000	58.050	116.10	70-130
52 2-Propanol	50.000	54.734	109.47	70-130
54 3-Chloropropene	50.000	40.980	81.96	70-130
57 Acetonitrile	50.000	55.123	110.25	70-130
59 Methylene Chlorid	50.000	56.656	113.31	70-130
62 tert-Butyl alcoho	50.000	45.284	90.57	70-130
63 Methyl tert-butyl	50.000	42.614	85.23	70-130
64 trans-1,2-Dichlor	50.000	44.367	88.73	70-130

	SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
66	Acrylonitrile	50.000	52.148	104.30	70-130
67	Hexane	50.000	47.279	94.56	70-130
71	1,1-Dichloroethan	50.000	47.243	94.49	70-130
72	Isopropyl ether	50.000	54.451	108.90	70-130
73	Vinyl Acetate	50.000	41.811	83.62	70-130
79	Ethyl-tert-butyl	50.000	46.753	93.51	70-130
84	2,2-Dichloropropa	50.000	49.858	99.72	70-130
85	cis-1,2-Dichloroe	50.000	45.617	91.23	70-130
86	2-Butanone	50.000	40.620	81.24	70-130
87	Ethyl Acetate	50.000	56.190	112.38	70-130
89	Tetrahydrofuran	50.000	55.519	111.04	70-130
92	Chloroform	50.000	49.173	98.35	70-130
94	Cyclohexane	50.000	42.541	85.08	70-130
96	1,1,1-Trichloroet	50.000	50.802	101.60	70-130
99	1,1-Dichloroprope	50.000	48.278	96.56	70-130
97	Carbon Tetrachlor	50.000	56.372	112.74	70-130
101	2,2,4-Trimethylpe	50.000	49.499	99.00	70-130
102	Benzene	50.000	46.581	93.16	70-130
105	tert-Amyl methyl	50.000	48.534	97.07	70-130
106	1,2-Dichloroethan	50.000	59.170	118.34	70-130
107	Heptane	50.000	44.484	88.97	70-130
110	n-Butanol	50.000	57.211	114.42	70-130
111	Trichloroethene	50.000	51.494	102.99	70-130
118	Dibromomethane	50.000	55.542	111.08	70-130
127	Methylcyclohexane	50.000	46.064	92.13	70-130
114	1,2-Dichloropropa	50.000	48.842	97.68	70-130
116	Methyl Methacryla	50.000	46.713	93.43	70-130
117	1,4-Dioxane	50.000	46.302	92.60	70-130
122	Bromodichlorometh	50.000	55.050	110.10	70-130
126	cis-1,3-Dichlorop	50.000	48.532	97.06	70-130
131	4-Methyl-2-pentan	50.000	51.890	103.78	70-130
136	Octane	50.000	52.134	104.27	70-130
137	Toluene	50.000	48.149	96.30	70-130
139	trans-1,3-Dichlor	50.000	52.207	104.41	70-130
141	1,1,2-Trichloroet	50.000	51.763	103.53	70-130
142	Tetrachloroethene	50.000	53.730	107.46	70-130
143	2-Hexanone	50.000	54.583	109.17	70-130
144	1,3-Dichloropropa	50.000	48.796	97.59	70-130
146	Dibromochlorometh	50.000	56.709	113.42	70-130
148	1,2-Dibromoethane	50.000	53.280	106.56	70-130
151	1-Bromo-2-Chloroe	50.000	49.830	99.66	70-130
154	Chlorobenzene	50.000	50.811	101.62	70-130
155	Ethyl Benzene	50.000	49.794	99.59	70-130
156	Nonane	50.000	61.290	122.58	70-130
157	1,1,1,2-Tetrachlo	50.000	0.000	*	70-130
158	m,p-Xylene	50.000	49.950	99.90	70-130
164	o-Xylene	50.000	48.968	97.94	70-130

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
165 Styrene	50.000	48.535	97.07	70-130
167 Bromoform	50.000	57.167	114.33	70-130
168 Cumene	50.000	49.513	99.03	70-130
169 Cyclohexanone	50.000	59.529	119.06	70-130
175 1,1,2,2-Tetrachlo	50.000	50.849	101.70	70-130
177 Bromobenzene	50.000	54.951	109.90	70-130
178 Propylbenzene	50.000	52.344	104.69	70-130
179 1,2,3-Trichloropr	50.000	52.561	105.12	70-130
181 trans-1,4-Dichlor	50.000	86.641	173.28*	70-130
182 Decane	50.000	53.889	107.78	70-130
183 4-Ethyltoluene	50.000	53.064	106.13	70-130
184 2-Chlorotoluene	50.000	54.512	109.02	70-130
185 1,3,5-Trimethylbe	50.000	53.065	106.13	70-130
188 alpha Methyl Styr	50.000	52.003	104.01	70-130
189 tert-Butylbenzene	50.000	54.132	108.26	70-130
190 1,2,4-Trimethylbe	50.000	53.544	107.09	70-130
192 sec-Butylbenzene	50.000	55.497	110.99	70-130
194 p-Cymene	50.000	54.121	108.24	70-130
195 1,3-Dichlorobenze	50.000	56.689	113.38	70-130
196 1,4-Dichlorobenze	50.000	56.374	112.75	70-130
199 alpha-Chlorotolue	50.000	53.775	107.55	70-130
201 Undecane	50.000	58.383	116.77	70-130
202 Butylbenzene	50.000	54.504	109.01	70-130
204 1,2-Dichlorobenze	50.000	55.980	111.96	70-130
206 1,2-Dibromo-3-chl	50.000	57.219	114.44	70-130
207 Dodecane	50.000	78.113	156.23*	70-130
213 1,2,4-Trichlorobe	58.000	75.741	130.59*	70-130
215 Hexachlorobutadie	58.000	79.611	137.26*	70-130
216 Naphthalene	5.800	6.730	116.04	60-140
222 1,2,3-Trichlorobe	58.000	81.511	140.54*	70-130

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 104 1,2-Dichloroethan	25.000	26.888	107.55	70-130
$ 134 Toluene-d8	25.000	24.990	99.96	70-130
$ 170 4-Bromofluorobenz	25.000	27.580	110.32	70-130

Data File: /chem1/msdp.i/21AUG21.b/p082104.d

Page 1

Date : 21-AUG-2021 10:32

Client ID: LCSD

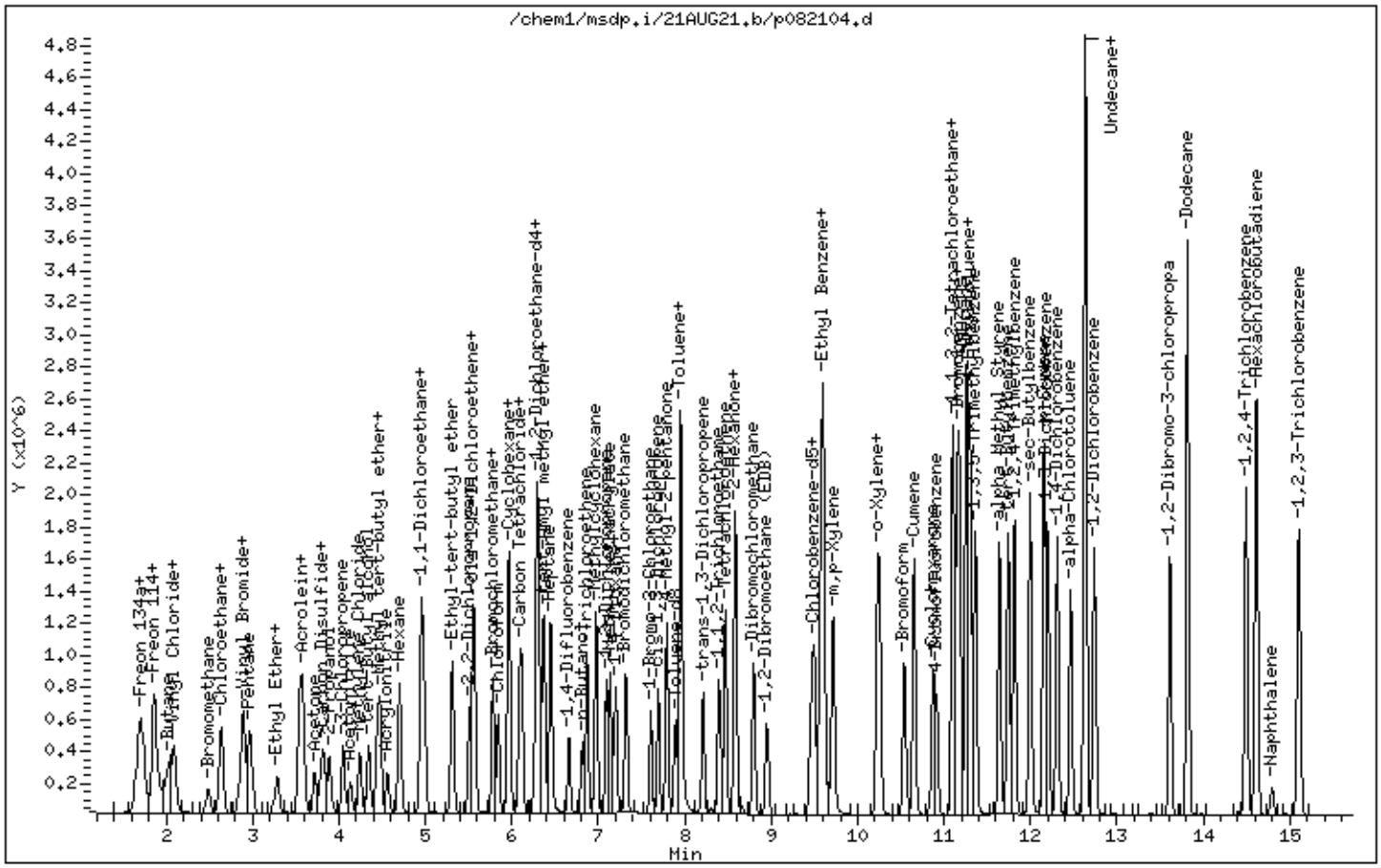
Instrument: msdp.i

Sample Info: 50mL 3018-2173

Operator: mb

Column phase: RTX-624

Column diameter: 0.25



MSDP

								Method TO-15/TO-14					
	36BFB Verification of 176/174 ratio: (77832/83688)*100%=93.0%							SOP# 6					
		3234-67	Exp. Date:		11/4/21			Vacuum:	NA				
	BCM	102,894						Please check all standards					
	1,4-DFB	387,356				Surr.# 3234-67		Exp. Date:	11/4/21	Surrogate# NA		Exp. Date:	NA
	CB-d5	386,134				CCV: 3018-2125A		Exp. Date:	9/28/21	LCS: 3018-2173		Exp. Date:	10/28/21
						CCV sp1#		Exp. Date:		LCS sp1 #		Exp. Date:	
						CCV sp2#		Exp. Date:		LCS sp2 #		Exp. Date:	
	Verified CCV vs ICAL mid-point(-40%): mb					CCV sp3#		Exp. Date:		LCS sp3 #		Exp. Date:	
	Method: p21q0519a.m												

	File #	Enter/Scan Sample IDs	Canister#	Cart Pos.	Pressure	mL	DF	Verify Load	Loaded Init	Date Analyzed	Time	Review Init	Comments
√	P082101	BFB Tune Check	3234-67	12	36ng	50ml	1.00	mb	mb	8/21/2021	0908	mb	Exp. 11/4/21. Apex+1, scan: 1305
√	P082102	CCV	3018-2125A	13	50ppbv (100ppbv)	100mL	1.00	mb	mb	8/21/2021	0937	mb	Exp. 9/28/21;1 out, 2 outside 70-130
√	P082103	LCS	3018-2173	14	50ppbv (200ppbv)	50mL	1.00	mb	mb	8/21/2021	1004	mb	Exp. 10/28/21. 1 out
√	P082104	LCSD	3018-2173	14	50ppbv (200ppbv)	50mL	1.00	mb	mb	8/21/2021	1032	mb	Exp. 10/28/21.3 out, RPD: 0 out
X	P082105	CCVsp	3018-2127	11	50ppbv (200ppbv)	50mL	1.00	mb	mb	8/21/2021	1200	mb	Exp. 9/26/21. leak test high error, not loaded
√	P082106	TPHg Calib	3234-27	12	500ppbv(1250ppbv)	80mL	1.00	mb	mb	8/21/2021	1224	mb	Exp. 9/3/21
√	P082107	CCVsp	3018-2127	11	50ppbv (200ppbv)	50mL	1.00	mb	mb	8/21/2021	1259	mb	Exp. 9/26/21. 0 out
√	P082108	Lab Blank	35157	12	humid	200ml	1.00	mb	mb	8/21/2021	1348	mb	leg validation
√	P082109	2108390-21A	N1957	1	5.5 Hg->10 psi	200ml	2.06	mb	mb	8/21/2021	1535	LD	
√	P082110	2108390-20A	N5602	1	5.5 Hg->10 psi	200ml	2.06	LD	mb	8/21/2021	1617	LD	
√	P082111	2108390-22A	1L1647	2	4.5 Hg->10.6 psi	200ml	2.02	LD	mb	8/21/2021	1646	LD	
√	P082112	2108390-23A	1L3941	3	5.5 Hg->10 psi	200ml	2.06	LD	mb	8/21/2021	1716	LD	
√	P082113	2108390-24A	1L1751	4	6.5 Hg->10 psi	200ml	2.14	LD	mb	8/21/2021	1745	LD	
√	P082114	2108390-25A	N2042	5	5.5 Hg->10 psi	200ml	2.06	LD	mb	8/21/2021	1815	LD	
√	P082115	2108390-26A	O0246	6	6.0 Hg->10 psi	200ml	2.10	LD	mb	8/21/2021	1844	LD	
X	P082116	2108447-01A	N2728	7	6.7 Hg->9.9 psi	15ml	28.7	LD	mb	8/21/2021	1912	LD	overdilute, rr @ 40mL
X	P082117	2108447-03A	129	8	5.1 Hg->9.9 psi	20ml	20.2	LD	mb	8/21/2021	1939	LD	overdilute, rr @ 200mL
X	P082118	2108447-04A	O1076	9	5.5 Hg->9.9 psi	20ml	20.5	LD	mb	8/21/2021	2007	LD	overdilute, rr @ 200mL
√	P082119	2108447-06A	O0785	10	3.3 Hg->9.9 psi	200ml	1.88	LD	mb	8/21/2021	2037	LD	
√	P082120	2108447-07A	B2376	11	6.9 Hg->10 psi	200ml	2.18	LD	mb	8/21/2021	2106	LD	
X	P082121	2108447-08A	N1956	12	5.9 Hg->9.9 psi	80ml	5.21	LD	mb	8/21/2021	2134	LD	overdilute, rr @ 200mL

gjl 8/24/21

MSDP

									Method TO-15/TO-14					
	36BFB Verification of 176/174 ratio: (89888/96352)*100%=93.29%								SOP# 6					
		3234-67	Exp. Date:		11/4/21				Vacuum:	NA				
	BCM	109,375							Please check all standards					
	1,4-DFB	406,799						Surr.# 3234-67	Exp. Date:	11/4/21	Surrogate# NA	Exp. Date:	NA	
	CB-d5	400,841						CCV: 3018-2125A	Exp. Date:	9/28/21	LCS: 3018-2173	Exp. Date:	10/28/21	
								CCV sp1#	Exp. Date:		LCS sp1 #	Exp. Date:		
								CCV sp2#	Exp. Date:		LCS sp2 #	Exp. Date:		
	Verified CCV vs ICAL mid-point(-40%): mjb							CCV sp3#	Exp. Date:		LCS sp3 #	Exp. Date:		
	Method: p21q0519a.m													

	File #	Enter/Scan Sample IDs	Canister#	Cart Pos.	Pressure	mL	DF	Verify Load	Loaded Init	Date Analyzed	Time	Review Init	Comments
√	P082001	BFB Tune Check	3234-67	10	36ng	200ml	1.00	LD	LD	8/20/2021	1034	LD	Exp. 11/4/21. leg validation
√	P082002	CCV	3018-2125A	13	50ppbv (100ppbv)	100mL	1.00	mjb	LD	8/20/2021	1113	mjb	Exp. 9/28/21; AT12:0 out AT20:1 out
√	P082003	LCS	3018-2173	14	50ppbv (200ppbv)	50mL	1.00	mjb	LD	8/20/2021	1140	mjb	Exp. 10/28/21. AT12:0 out AT20:2 out
√	P082004	LCSD	3018-2173	14	50ppbv (200ppbv)	50mL	1.00	mjb	LD	8/20/2021	1208	mjb	Exp. 10/28/21. AT12:1 out AT20:4 out RPD OK
√	P082005	CCVsp	3018-2127	11	50ppbv (200ppbv)	50mL	1.00	mjb	LD	8/20/2021	1236	mjb	Exp. 9/26/21. 0 out
√	P082006	TPHg Calib	3234-27	12	500ppbv(1250ppbv)	80mL	1.00	mjb	LD	8/20/2021	1305	mjb	Exp. 9/3/21
√	P082007	Lab Blank	35157	11	humid	200ml	1.00	mjb	mjb	8/20/2021	1417	mjb	
√	P082008	2108390-01A	N3129	1	6.0 Hg->10 psi	200ml	2.10	kk	mjb	8/20/2021	1557	kk	"E" Hexane > 400ppbv
√	P082009	2108390-02A	1040	2	6.5 Hg->10 psi	200ml	2.14	kk	mjb	8/20/2021	1627	kk	"E"chlorodifl (NTC)> 400ppbv, Hexane >5xRL no impact on data
√	P082010	2108390-03A	1L1614	3	5.0 Hg->10 psi	200ml	2.02	kk	mjb	8/20/2021	1656	kk	"E"chlorodifl (NTC)< 400ppbv,"E"Hexane <400ppbv
X	P082011	2108390-04A	1L3967	4	7.0 Hg->10 psi	100ml	4.38	kk	mjb	8/20/2021	1725	kk	overdil
√	P082012	2108390-05A	1L1582	5	5.5 Hg->10 psi	200ml	2.06	kk	mjb	8/20/2021	1754	kk	
√	P082013	2108390-06A	O0255	6	6.0 Hg->10 psi	200ml	2.10	kk	mjb	8/20/2021	1824	kk	
√	P082014	2108390-07A	1L1569	7	5.0 Hg->10 psi	200ml	2.02	kk	mjb	8/20/2021	1853	kk	
X	P082015	2108390-08A	O0818	8	7.0 Hg->10 psi	100ml	4.38	kk	mjb	8/20/2021	1922	kk	overdil
√	P082016	2108390-09A	1L2710	9	6.0 Hg->10 psi	200ml	2.10	kk	mjb	8/20/2021	1951	kk	
√	P082017	2108390-10A	1L1646	10	6.0 Hg->10 psi	200ml	2.10	kk	kk	8/20/2021	2024	kk	
√	P082018	System Blank	35157	1	humid	200ml	1.00	kk	kk	8/20/2021	2108	kk	leg validation
√	P082019	2108390-14A	O1022	1	4.0 Hg->10 psi	200ml	1.94	mb	kk	8/20/2021	2316	mb	Green dot: 7.8->4.8 (psi)
√	P082020	2108390-11A	1L1754	2	6.0 Hg->10 psi	200ml	2.10	mb	kk	8/20/2021	2345	mb	confirmation needed
√	P082021	2108390-12A	1L1913	3	5.0 Hg->10 psi	200ml	2.02	mb	kk	8/21/2021	0015	mb	
√	P082022	2108390-04A	1L3967	4	7.0 Hg->10 psi	200ml	2.19	mb	kk	8/21/2021	0044	mb	
√	P082023	2108390-13A	3033	5	4.5 Hg->10 psi	200ml	1.98	mb	kk	8/21/2021	0114	mb	
√	P082024	2108390-15A	34000236	6	5.0 Hg->10 psi	200ml	2.02	mb	kk	8/21/2021	0144	mb	
√	P082025	2108390-16A	N5638	7	6.5 Hg->10 psi	200ml	2.14	mb	kk	8/21/2021	0214	mb	

8/21/21

	File #	Enter/Scan Sample IDs	Canister#	Cart Pos.	Pressure	mL	DF	Verify Load	Loaded Init	Date Analyzed	Time	Review Init	Comments
√	P082026	2108390-08A	O0818	8	7.0 Hg->10 psi	200ml	2.19	mb	kk	8/21/2021	0243	mb	
√	P082027	2108390-17A	1L1678	9	5.5 Hg->10 psi	200ml	2.06	mb	kk	8/21/2021	0312	mb	
√	P082028	2108390-18A	O0239	10	5.0 Hg->10 psi	200ml	2.02	mb	kk	8/21/2021	0342	mb	
√	P082029	2108390-19A	1L1817	11	6.0 Hg->10 psi	200ml	2.10	mb	kk	8/21/2021	0411	mb	

8 8/21/21

US32TAR1

Data file : /chem/msdp.i/19MAY21.b/p051901.d
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 19-MAY-2021 11:39
Operator : LD Inst ID: msdp.i
Smp Info : 200ml #3234-10;BFB;BFB
Misc Info : 36ng
Comment :
Method : /chem/msdp.i/19MAY21.b/bfb30.m
Meth Date : 18-Nov-2019 14:14 ushn Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 4 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Sample Matrix: WATER
Processing Host: us32tar1

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vf	1.00000	Volumetric correction factor
Vi	1.00000	Injection Volume

Cpnd Variable Local Compound Variable

RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
10.921	10.993	-0.072	95	186911			100.00- 100.00	100.00
10.921	10.993	-0.072	50	42709			8.00- 40.00	22.85
10.921	10.993	-0.072	75	81216			30.00- 66.00	43.45
10.921	10.993	-0.072	96	12084			5.00- 9.00	6.47
10.921	10.993	-0.072	173	1196			0.00- 1.99	0.82
10.921	10.993	-0.072	174	146453			50.01- 120.00	78.35
10.921	10.993	-0.072	175	10521			4.00- 9.00	7.18
10.921	10.993	-0.072	176	142592			93.00- 101.00	97.36
10.921	10.993	-0.072	177	9138			5.00- 9.00	6.41

Data File: /chem/msdp.i/19MAY21.b/p051901.d

Date : 19-MAY-2021 11:39

Client ID: BFB

Instrument: msdp.i

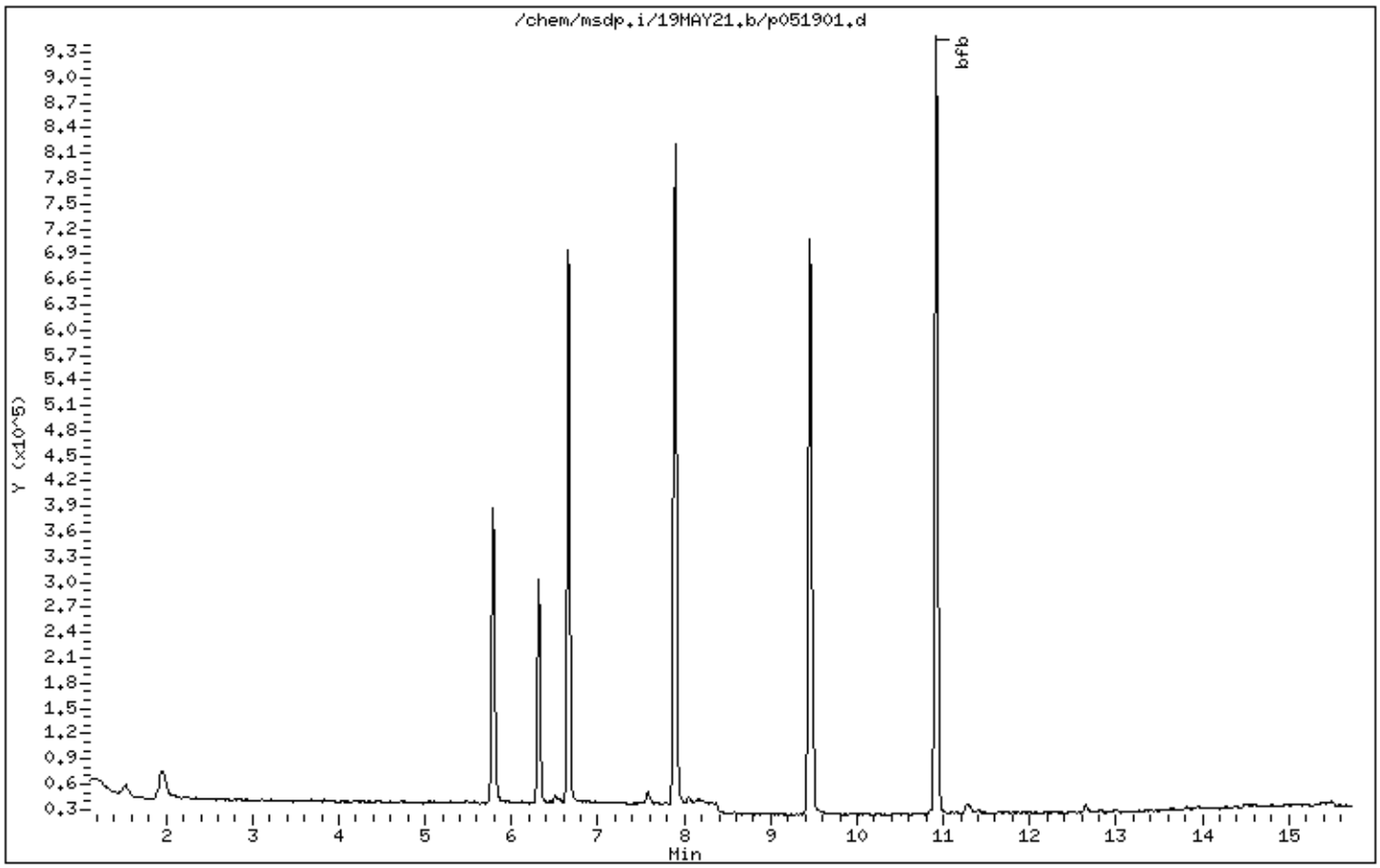
Sample Info: 200ml #3234-10;BFB;BFB

Volume Injected (uL): 1.0

Operator: LD

Column phase:

Column diameter: 2.00



Data File: /chem/msdp.i/19MAY21.b/p051901.d

Date : 19-MAY-2021 11:39

Client ID: BFB

Instrument: msdp.i

Sample Info: 200ml #3234-10;BFB;BFB

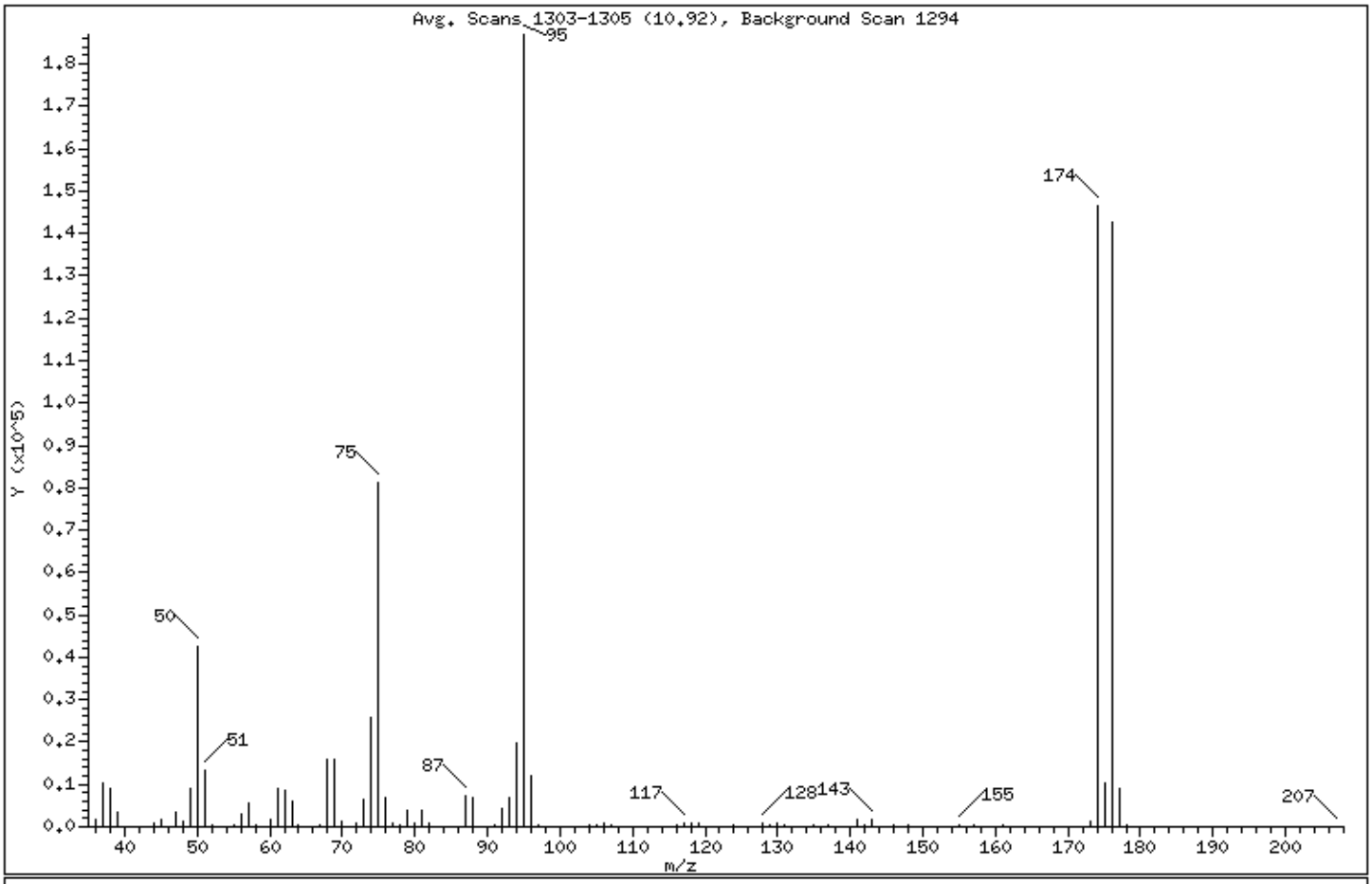
Volume Injected (uL): 1.0

Operator: LD

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	22.85
75	30.00 - 66.00% of mass 95	43.45
96	5.00 - 9.00% of mass 95	6.47
173	Less than 1.99% of mass 174	0.64 (0.82)
174	50.01 - 120.00% of mass 95	78.35
175	4.00 - 9.00% of mass 174	5.63 (7.18)
176	93.00 - 101.00% of mass 174	76.29 (97.36)
177	5.00 - 9.00% of mass 176	4.89 (6.41)

Date : 19-MAY-2021 11:39

Client ID: BFB Instrument: msdp.i

Sample Info: 200ml #3234-10;BFB;BFB

Volume Injected (uL): 1.0 Operator: LD

Column phase: Column diameter: 2.00

Data File: p051901.d
Spectrum: Avg. Scans 1303-1305 (10.92), Background Scan 1294
Location of Maximum: 95.00
Number of points: 104

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1868	70.00	1283	104.00	572	144.00	34
37.00	10229	71.00	45	105.00	269	145.00	194
38.00	8812	72.00	868	106.00	645	146.00	291
39.00	3495	73.00	6642	107.00	260	147.00	74
40.00	164	74.00	25736	110.00	56	148.00	464
44.00	917	75.00	81216	111.00	52	149.00	159
45.00	1818	76.00	7007	112.00	153	150.00	194
46.00	106	77.00	923	113.00	102	152.00	130
47.00	3380	78.00	552	115.00	151	153.00	181
48.00	1430	79.00	3744	116.00	557	154.00	159
49.00	9200	80.00	918	117.00	965	155.00	433
50.00	42704	81.00	3849	118.00	686	157.00	324
51.00	13167	82.00	684	119.00	932	159.00	214
52.00	589	83.00	51	123.00	100	161.00	241
55.00	241	85.00	29	124.00	227	165.00	33
56.00	2844	86.00	166	126.00	88	172.00	143
57.00	5428	87.00	7358	127.00	87	173.00	1196
58.00	256	88.00	6801	128.00	774	174.00	146432
59.00	71	91.00	377	129.00	295	175.00	10521
60.00	1820	92.00	4204	130.00	668	176.00	142592
61.00	9042	93.00	6703	131.00	353	177.00	9138
62.00	8617	94.00	19944	135.00	237	178.00	285
63.00	5849	95.00	186880	137.00	246	207.00	79
64.00	483	96.00	12084	140.00	173		
67.00	360	97.00	281	141.00	1745		
68.00	16023	98.00	26	142.00	230		
69.00	15790	103.00	189	143.00	1755		

US32TAR1

Data file : /chem/msdp.i/20AUG21.b/p082001.d
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 20-AUG-2021 10:34
Operator : LD Inst ID: msdp.i
Smp Info : 200ml #3234-67;BFB;BFB
Misc Info : 36ng
Comment :
Method : /chem/msdp.i/20AUG21.b/bfb30.m
Meth Date : 18-Nov-2019 14:14 ushn Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 10 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Sample Matrix: WATER
Processing Host: us32tar1

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vf	1.00000	Volumetric correction factor
Vi	1.00000	Injection Volume

Cpnd Variable Local Compound Variable

RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
10.921	10.993	-0.072	95	111210			100.00- 100.00	100.00
10.921	10.993	-0.072	50	33202			8.00- 40.00	29.86
10.921	10.993	-0.072	75	52490			30.00- 66.00	47.20
10.921	10.993	-0.072	96	7121			5.00- 9.00	6.40
10.921	10.993	-0.072	173	992			0.00- 1.99	1.03
10.921	10.993	-0.072	174	96354			50.01- 120.00	86.64
10.921	10.993	-0.072	175	6957			4.00- 9.00	7.22
10.921	10.993	-0.072	176	89888			93.00- 101.00	93.29
10.921	10.993	-0.072	177	6075			5.00- 9.00	6.76

Data File: /chem/msdp.i/20AUG21.b/p082001.d

Date : 20-AUG-2021 10:34

Client ID: BFB

Instrument: msdp.i

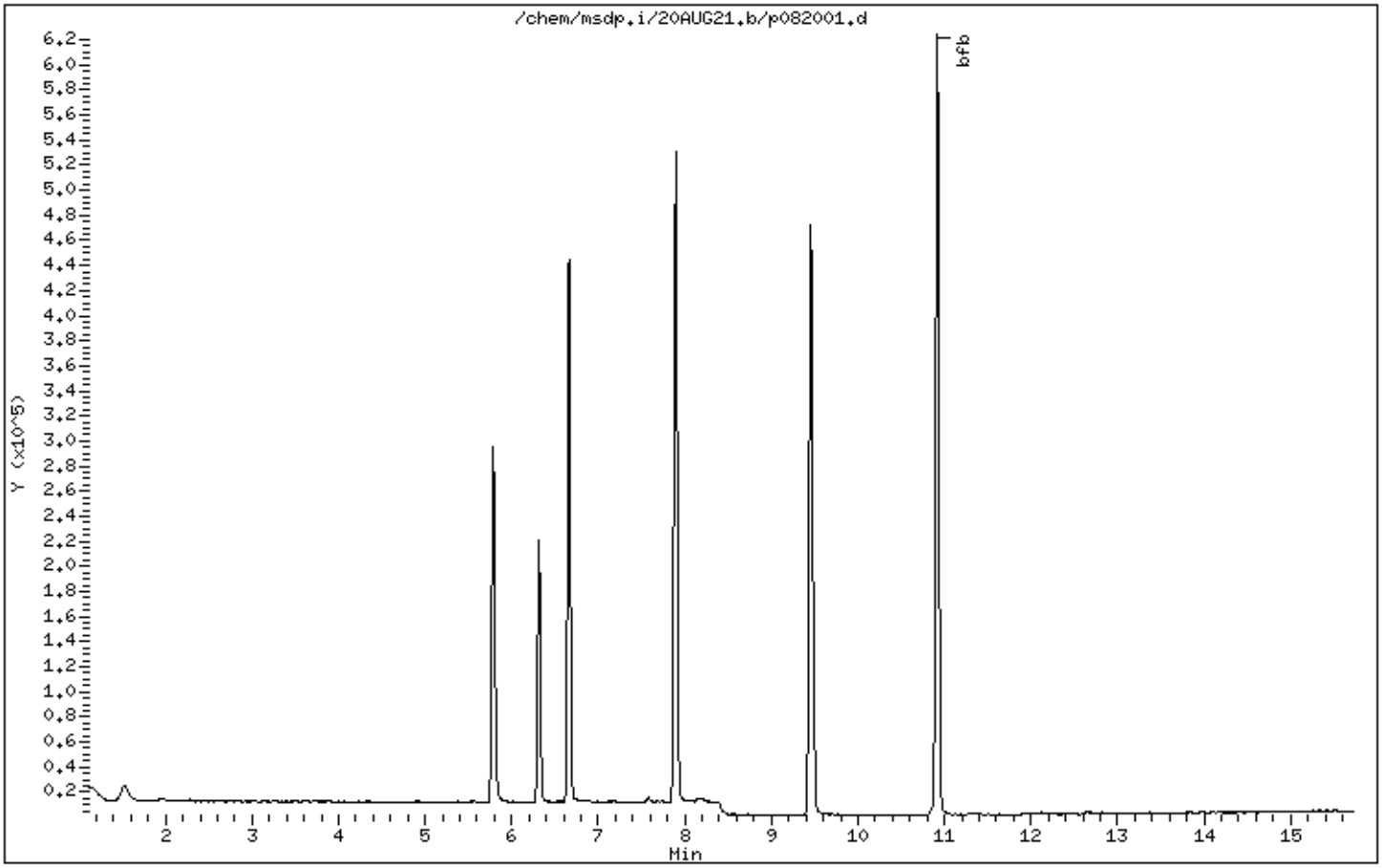
Sample Info: 200ml #3234-67;BFB;BFB

Volume Injected (uL): 1.0

Operator: LD

Column phase:

Column diameter: 2.00



Data File: /chem/msdp.i/20AUG21.b/p082001.d

Date : 20-AUG-2021 10:34

Client ID: BFB

Instrument: msdp.i

Sample Info: 200ml #3234-67;BFB;BFB

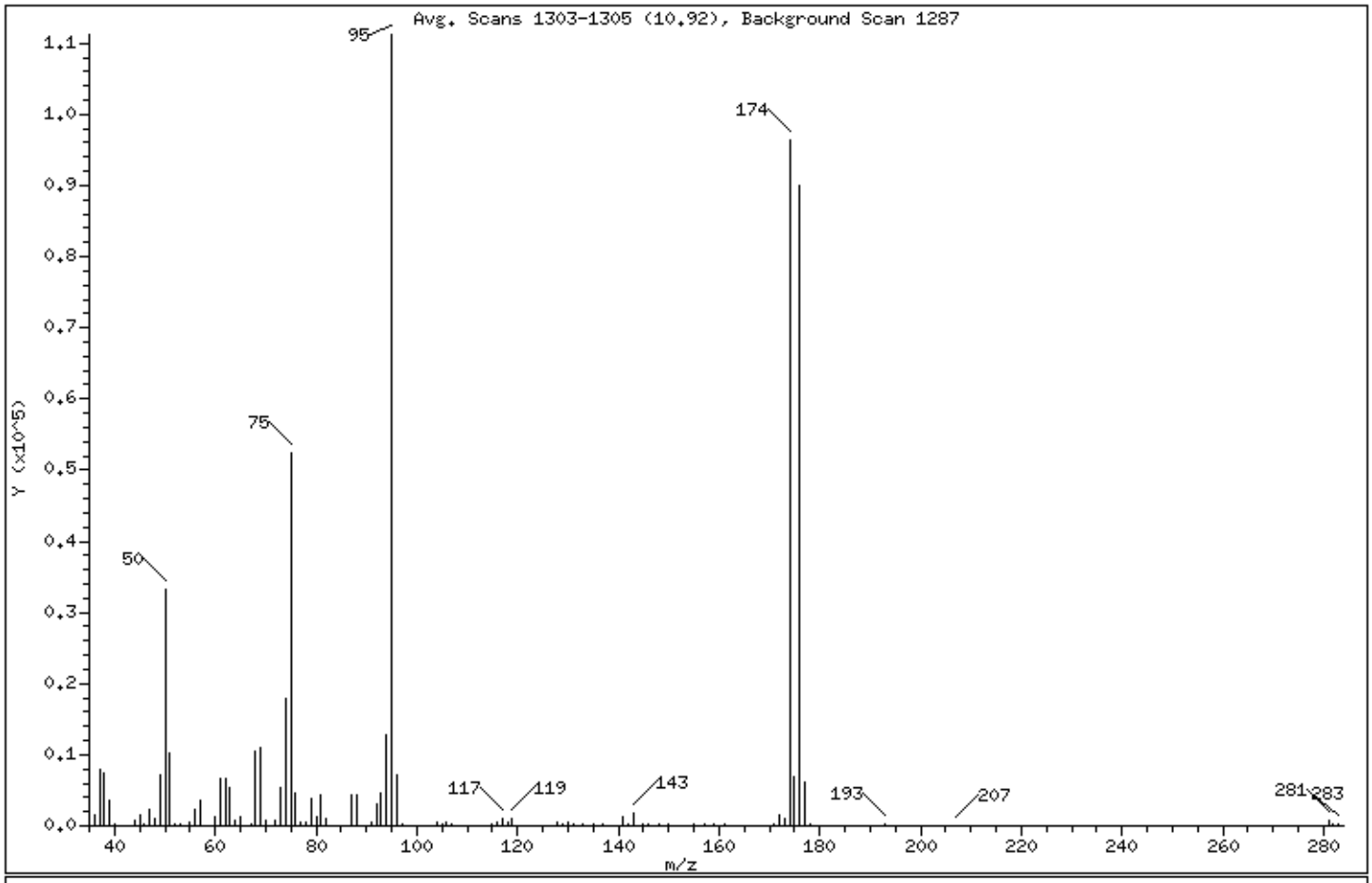
Volume Injected (uL): 1.0

Operator: LD

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	29.86
75	30.00 - 66.00% of mass 95	47.20
96	5.00 - 9.00% of mass 95	6.40
173	Less than 1.99% of mass 174	0.89 (1.03)
174	50.01 - 120.00% of mass 95	86.64
175	4.00 - 9.00% of mass 174	6.26 (7.22)
176	93.00 - 101.00% of mass 174	80.83 (93.29)
177	5.00 - 9.00% of mass 176	5.46 (6.76)

Date : 20-AUG-2021 10:34

Client ID: BFB Instrument: msdp.i

Sample Info: 200ml #3234-67;BFB;BFB

Volume Injected (uL): 1.0 Operator: LD

Column phase: Column diameter: 2.00

Data File: p082001.d
Spectrum: Avg. Scans 1303-1305 (10.92), Background Scan 1287
Location of Maximum: 95.00
Number of points: 98

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1566	65.00	1219	96.00	7121	145.00	373
37.00	7896	66.00	81	97.00	165	146.00	170
38.00	7303	67.00	309	104.00	587	147.00	34
39.00	3474	68.00	10499	105.00	162	148.00	320
40.00	219	69.00	10988	106.00	588	150.00	131
41.00	111	70.00	826	107.00	160	153.00	81
44.00	723	72.00	668	111.00	34	155.00	234
45.00	1599	73.00	5420	112.00	97	157.00	222
46.00	282	74.00	17776	115.00	143	159.00	147
47.00	2211	75.00	52488	116.00	445	161.00	154
48.00	1071	76.00	4591	117.00	1036	171.00	145
49.00	7045	77.00	562	118.00	464	172.00	1539
50.00	33200	78.00	473	119.00	951	173.00	992
51.00	10183	79.00	3900	128.00	479	174.00	96352
52.00	354	80.00	1299	129.00	179	175.00	6957
53.00	246	81.00	4224	130.00	493	176.00	89888
55.00	570	82.00	1053	131.00	229	177.00	6075
56.00	2274	83.00	35	133.00	185	178.00	190
57.00	3703	87.00	4315	135.00	232	193.00	155
58.00	116	88.00	4297	137.00	239	207.00	100
60.00	1241	91.00	423	140.00	81	281.00	864
61.00	6554	92.00	3159	141.00	1300	282.00	265
62.00	6599	93.00	4699	142.00	184	283.00	160
63.00	5441	94.00	12819	143.00	1718		
64.00	680	95.00	111208	144.00	33		

US32TAR1

Data file : /chem1/msdp.i/21AUG21.b/p082101.d
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 21-AUG-2021 09:08
Operator : mb Inst ID: msdp.i
Smp Info : 200ml 3234-67;BFB Tune Check
Misc Info : 36ng
Comment :
Method : /chem1/msdp.i/21AUG21.b/bfb30.m
Meth Date : 18-Nov-2019 14:14 ushn Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 10 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Sample Matrix: WATER

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vf	1.00000	Volumetric correction factor
Vi	1.00000	Injection Volume

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 bfb							CAS #: 460-00-4	
10.921	10.993	-0.072	95	88704			100.00- 100.00	100.00
10.921	10.993	-0.072	50	26896			8.00- 40.00	30.32
10.921	10.993	-0.072	75	42280			30.00- 66.00	47.66
10.921	10.993	-0.072	96	5772			5.00- 9.00	6.51
10.921	10.993	-0.072	173	999			0.00- 1.99	1.19
10.921	10.993	-0.072	174	83688			50.01- 120.00	94.35
10.921	10.993	-0.072	175	5448			4.00- 9.00	6.51
10.921	10.993	-0.072	176	77832			93.00- 101.00	93.00
10.921	10.993	-0.072	177	5113			5.00- 9.00	6.57

Data File: /chem/msdp.i/21AUG21.b/p082101.d

Date : 21-AUG-2021 09:08

Client ID: BFB

Instrument: msdp.i

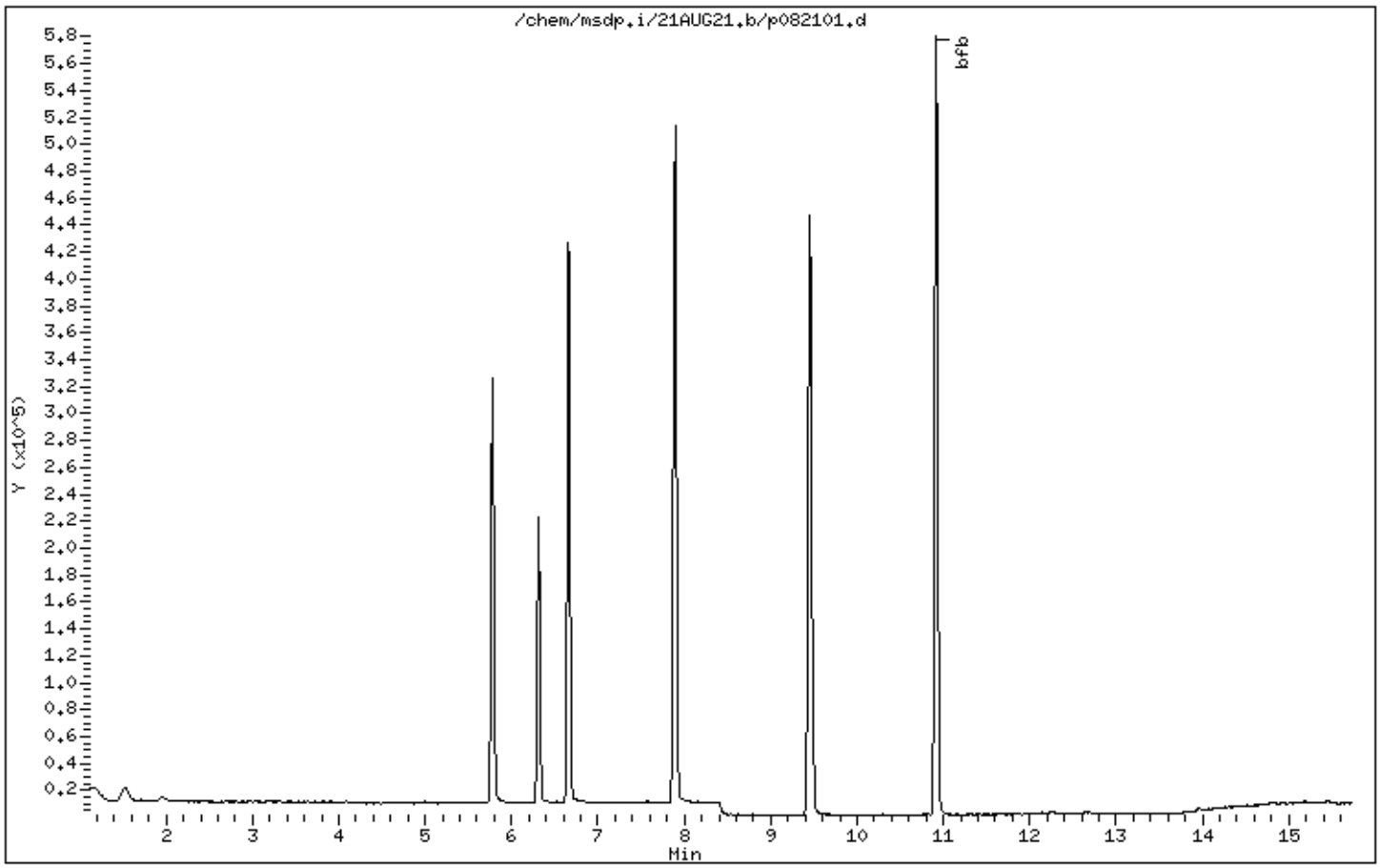
Sample Info: 200ml 3234-67;BFB Tune Check

Volume Injected (uL): 1.0

Operator: mb

Column phase:

Column diameter: 2.00



Data File: /chem/msdp.i/21AUG21.b/p082101.d

Date : 21-AUG-2021 09:08

Client ID: BFB

Instrument: msdp.i

Sample Info: 200ml 3234-67;BFB Tune Check

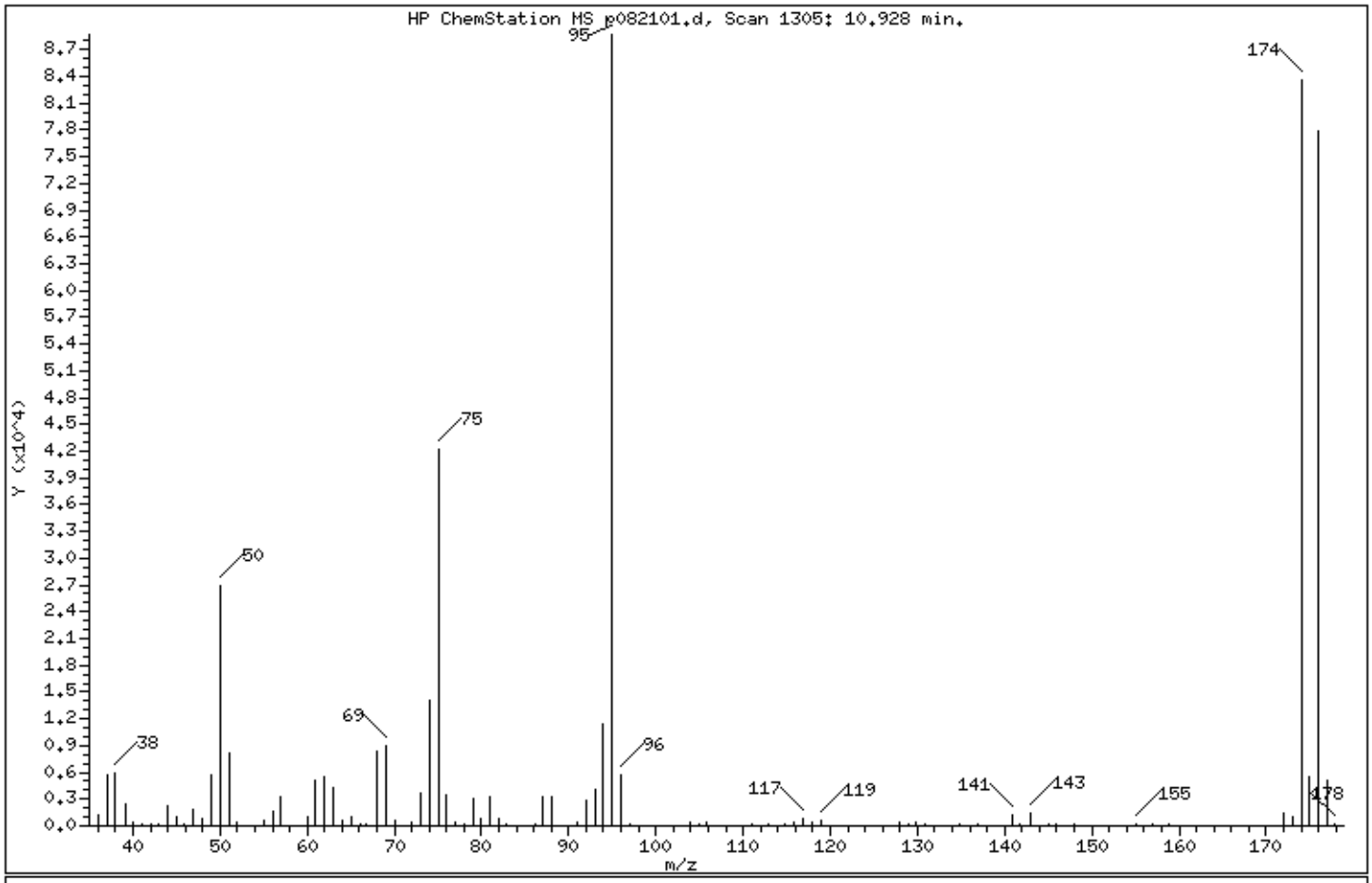
Volume Injected (uL): 1.0

Operator: mb

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	30.32
75	30.00 - 66.00% of mass 95	47.66
96	5.00 - 9.00% of mass 95	6.51
173	Less than 1.99% of mass 174	1.13 (1.19)
174	50.01 - 120.00% of mass 95	94.35
175	4.00 - 9.00% of mass 174	6.14 (6.51)
176	93.00 - 101.00% of mass 174	87.74 (93.00)
177	5.00 - 9.00% of mass 176	5.76 (6.57)

Date : 21-AUG-2021 09:08

Client ID: BFB Instrument: msdp.i

Sample Info: 200ml 3234-67;BFB Tune Check

Volume Injected (uL): 1.0 Operator: mb

Column phase: Column diameter: 2.00

Data File: p082101.d
Spectrum: HP ChemStation MS p082101.d, Scan 1305: 10.928 min.
Location of Maximum: 95.00
Number of points: 86

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1133	61.00	5038	86.10	121	129.90	400
37.00	5637	62.00	5508	87.00	3292	130.90	124
38.00	5825	63.00	4239	88.00	3324	134.90	233
39.10	2371	64.00	594	90.90	336	137.00	131
40.00	486	65.00	1041	92.00	2838	140.90	1156
41.10	124	66.10	120	93.00	4051	141.80	113
42.00	110	66.80	300	94.00	11417	142.90	1392
43.00	167	68.00	8403	95.00	88704	145.00	290
44.00	2294	69.00	8971	96.00	5772	145.90	132
45.00	1083	70.00	681	97.00	259	148.00	258
45.90	164	72.00	419	103.90	379	155.00	269
47.00	1889	73.00	3706	104.90	276	156.90	257
48.00	913	74.00	13993	105.90	465	158.80	107
49.00	5672	75.00	42280	111.00	117	172.00	1496
50.00	26896	76.00	3381	112.90	145	173.00	999
51.00	8095	76.90	425	114.80	153	174.00	83688
52.00	342	78.00	283	115.90	364	175.00	5448
55.00	522	79.00	3156	116.90	755	176.00	77832
56.00	1673	79.90	822	117.90	438	177.00	5113
57.00	3183	80.90	3348	118.90	643	177.90	108
58.00	100	81.90	795	127.90	358		
60.00	1093	82.80	118	128.90	210		

Shipping/Receiving Documents

eurofins | Air Toxics

Eurofins Air Toxics, Inc. Sample Receipt Confirmation Cover Page

Thank you for choosing Eurofins Air Toxics, Inc. (EATL). We have received your samples and have listed any Sample Receipt Descrepancies below.

In order to expedite analysis and reporting, please review the attached information for accuracy.

For corrections call: **Air Toxics, Ltd. at 916-985-1000**

EATL will proceed with the analysis as specified on the Chain of Custody (COC) and Sample Receipt Summary page.

Please note : The Sample Receipt Confirmation, including the total workorder charge, is subject to change upon secondary review. Our aim is to provide a confirmation to you in a timely manner. Sample Receipt Discrepancies, if any, may not include discrepancies regarding sample receipt pressure(s). Additionally, the COC will be provided with the final report.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630

(916) 985-1000 .FAX (916) 985-1020
Hours 6:30 A.M to 5:30 P.M. PST

Revised 8-19-21

eurofins | Air Toxics

Analysis Request /Canister Chain of Custody

For Laboratory Use Only

PID: _____ Workorder #: 2108390

180 Blue Ravine Rd. Suite B, Folsom, CA 95630
Phone (800) 985-5955; Fax (916) 351-8279

page 1 of 2

Client: AECOM
Project Name: SMUD 59th ST.
Project Manager: Andi Shepard Project # 60632193.6
Sampler: Trevor Cosley
Site Name:

Special Instructions/Notes:
Invoice To: Level IV Reporting
Cc/Fr: Robert Kohlhardt
Report Email To:
robert.kohlhardt@aecom.com

Turnaround Time (Rush surcharges may apply)
Standard _____ Rush 5 Day (specify)

Lab ID	Field Sample Identification(Location)	Can #	Flow Controller #	Start Sampling Information		Stop Sampling Information		Canister Vacuum/Pressure		Lab Use Only		Requested Analyses			
				Date	Time	Date	Time	Initial (in Hg)	Final (in Hg)	Receipt	Final (psig) Gas: N_2 / He	TO-15			
01A	SG-VW33A-03	1L3031	24722	8/16/21	0957	8/16/21	0101	-25	-5			X			
02A	SG-VW44A-03	1L1333	23423	8/16/21	0947	8/16/21	0953	-25	-5			X			
03A	SG-VW17A-03	1L1614	24498	8/16/21	1026	8/16/21	1031	-26	-5			X			
04A	SG-VW53A-02	1L3967	24502	8/16/21	1107	8/16/21	1113	-29	-5			X			
05A	SG-VW54S-02	1L1582	23219	8/16/21	1132	8/16/21	1139	-27	-5			X			
06A	SG-VW63B-02	1L2762	23171	8/16/21	1203	8/16/21	1208	-28	-5			X			
07A	SG-VW60A-02	1L1369	24722	8/16/21	1247	8/16/21	1253	-28	-5			X			
08A	SG-VW61A-02	1L2461	24038	8/16/21	1321	8/16/21	1326	-27	-5			X			
09A	SG-VW63A-02	1L2710	24033	8/16/21	1436	8/16/21	1442	-26	-5			X			
10A	SG-VW63B-02	1L1646	23200	8/16/21	1508	8/16/21	1518	-27	-5			X			
11A	SG-VW65B-03	1L1754	23200	8/16/21	1508	8/16/21	1518	-27	-5			X			
12A	~~SG-VW55A-03~~	1L1913	23256	8/17/21	0629	8/17/21	0634	-26	-5			X			
13A	SG-VW20A-03	3033	23951	8/17/21	0702	8/17/21	0707	-25	-5			X			
14A	SG-VW21A-04	1L2505	24051	8/17/21	0736	8/17/21	0749	-29	-5			X			
15A	SG-VW29A-03 (23490)	3410D230	~~23490~~	8/17/21	0846	8/17/21	0825	-25	-5			X			
16A	SG-VW29A-03	1L3428	24041	8/17/21	0857	8/17/21	0904	-26	-5			X			

Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time
CEI 8/17/21	8/17/21	1443	AM TAIL	08/17/21	1443
Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time
Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time

Lab Use Only

Shipper Name: UPS | Custody Seals Intact? Yes No None

Sample Transportation Notice: Relinquishing signature on this document indicates that samples are shipped in compliance with all applicable local, State, Federal, and international laws, regulations, and ordinances of any kind. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Eurofins Air Toxics against any claim, demand, or action, of any kind, related to the collection, handling, of shipping of samples. D.O.T Hotline (800) 467-4922

eurofins | Air Toxics

Analysis Request /Canister Chain of Custody

For Laboratory Use Only

PID: _____ Workorder #: 2108390

180 Blue Ravine Rd. Suite B, Folsom, CA 95630
Phone (800) 985-5955; Fax (916) 351-8279

Client: AECOM
Project Name: SMUD 59th ST.
Project Manager: Andy Shepard Project # 60627936
Sampler: Trevor Dooley
Site Name:

Special Instructions/Notes:
Invoicing TO: Level IV Reporting
SWPP Queen
Report Email TO:
robert.kohlhardt@aecom.com

Turnaround Time (Rush surcharges may apply)
Standard _____ Rush 5 Day (specify)

Lab ID	Field Sample Identification(Location)	Can #	Flow Controller #	Start Sampling Information		Stop Sampling Information		Canister Vacuum/Pressure		Lab Use Only		Requested Analyses			
				Date	Time	Date	Time	Initial (in Hg)	Final (in Hg)	Receipt	Final (psig) Gas: N_2 / He	TO-15			
01A	SG-VW35A-03	1L3031	24222	8/16/21	0855	8/16/21	0901	-25	-5			X			
02A	SG-VW44A-03	1L1833	23428	8/16/21	0947	8/16/21	0953	-25	-5			X			
03A	SG-VW17A-03	1L1614	24498	8/16/21	1026	8/16/21	1031	-26	-5			X			
04A	SG-VW58A-02	1L3967	24402	8/16/21	1107	8/16/21	1113	-29	-5			X			
05A	SG-VW58B-02	1L1582	23219	8/16/21	1132	8/16/21	1138	-27	-5			X			
06A	SG-VW60B-02	1L2762	23571	8/16/21	1203	8/16/21	1209	-28	-5			X			
07A	SG-VW60A-02	1L1569	24122	8/16/21	1247	8/16/21	1253	-28	-5			X			
08A	SG-VW61A-02	1L2461	24038	8/16/21	1321	8/16/21	1326	-27	-5			X			
09A	SG-VW63A-02	1L2710	24033	8/16/21	1436	8/16/21	1442	-26	-5			X			
10A	SG-VW63B-02	1L1646	23200	8/16/21	1508	8/16/21	1518	-27	-5			X			
11A	SG-VW63B-03	1L1754	23200	8/16/21	1508	8/16/21	1518	-27	-5			X			
12A	SG-VW55A-03	1L1913	23256	8/17/21	0628	8/17/21	0634	-26	-5			X			
13A	SG-VW20A-03	3033	23751	8/17/21	0702	8/17/21	0707	-25	-5			X			
14A	SG-VW21A-04	1L2505	24087	8/17/21	0736	8/17/21	0749	-29	-5			X			
15A	SG-VW24A-05	34000236	23470	8/17/21	0820	8/17/21	0825	-25	-5			X			
16A	SG-VW29A-03	1L3228	24045	8/17/21	0857	8/17/21	0904	-26	-5			X			

Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time
CET	8/17/21	1443	TATL	08/17/21	1443
Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time
Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time

Lab Use Only

Shipper Name: FD | Custody Seals Intact? | Yes | No | None

Sample Transportation Notice: Relinquishing signature on this document indicates that samples are shipped in compliance with all applicable local, State, Federal, and international laws, regulations, and ordinances of any kind. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Eurofins Air Toxics against any claim, demand, or action, of any kind, related to the collection, handling, of shipping of samples. D.O.T Hotline (800) 467-4922

eurofins | Air Toxics

Analysis Request /Canister Chain of Custody

For Laboratory Use Only

PID: _____ Workorder #: 2108390

180 Blue Ravine Rd. Suite B, Folsom, CA 95630
Phone (800) 985-5955; Fax (916) 351-8279

Client: AECOM
Project Name: SMUD 59th St.
Project Manager: Andy Shepard Project # 60632793.6
Sampler: Trevor Dooley
Site Name:

Special Instructions/Notes:
Invoicing To: Level 1U Reporting
SWPP@een
Report To:
robert.kuhlhandt@aecom.com

Turnaround Time (Rush surcharges may apply)
Standard _____ Rush 5 Day (specify)

Lab ID	Field Sample Identification(Location)	Can #	Flow Controller #	Start Sampling Information		Stop Sampling Information		Canister Vacuum/Pressure		Lab Use Only		Requested Analyses			
				Date	Time	Date	Time	Initial (in Hg)	Final (in Hg)	Receipt	Final (psig) Gas: N_2 / He	TO-15			
17A	SG-VW64A-02	1L1678	23968	8/17/21	0933	8/17/21	0938	-26	-5			X			
18A	SG-VW59A-02	1L2796	24841	8/17/21	1009	8/17/21	1016	-28	-5			X			
19A	SG-VW59B-02	1L1817	23144	8/17/21	1038	8/17/21	1043	-29	-5			X			
20A	SSV-FSS01-02	1L3373	25322	8/17/21	1110	8/17/21	1122	-26	-5			X			
21A	SSV-FSS01-03	1L2588	25322	8/17/21	1110	8/17/21	1122	-26	-5			X			
22A	SSV-PSS02-02	1L1647	24851	8/17/21	1135	8/17/21	1140	-26	-5			X			
23A	SSV-GSS01-02	1L3941	25212	8/17/21	1218	8/17/21	1223	-25	-5			X			
24A	SSV-GSS02-02	1L1751	24150	8/17/21	1245	8/17/21	1250	-24	-5			X			
25A	SSV-HMBSS01-02	1L2598	25233	8/17/21	1317	8/17/21	1322	-25	-5			X			
26A	SSV-JSS01-02	1L2786	23316	8/17/21	1340	8/17/21	1345	-25	-5			X			

Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time
	8/17/21	1443	JAW TATV	08/17/21	1443
Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time
Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time

Lab Use Only

Shipper Name: UPS Custody Seals Intact? Yes No None

Sample Transportation Notice: Relinquishing signature on this document indicates that samples are shipped in compliance with all applicable local, State, Federal, and international laws, regulations, and ordinances of any kind. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Eurofins Air Toxics against any claim, demand, or action, of any kind, related to the collection, handling, of shipping of samples. D.O.T Hotline (800) 467-4922

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SAMPLE RECEIPT SUMMARY

WORKORDER 2108390

Client

Mr. Robert Kohlhardt
AECOM
2020 L Street, Suite 400
Sacramento, CA 95811

Phone

916-679-2000

Fax

916-679-2900

Sales Rep: DaV

Date Promised: 08/24/21 5:00 pm
Date Completed:
Date Received: 8/17/21
PO#:
Project#: 60632793.6 SMUD 59th ST.

Total $: $ 5,689.00
Logged By: CH

Fraction	Sample #	Analysis	Collected	Amount$
01A	SG-VW35A-03	TO-15	8/16/2021	$172.50
02A	SG-VW44A-03	TO-15	8/16/2021	$172.50
03A	SG-VW17A-03	TO-15	8/16/2021	$172.50
04A	SG-VW58A-02	TO-15	8/16/2021	$172.50
05A	SG-VW58B-02	TO-15	8/16/2021	$172.50
06A	SG-VW60B-02	TO-15	8/16/2021	$172.50
07A	SG-VW60A-02	TO-15	8/16/2021	$172.50
08A	SG-VW61A-02	TO-15	8/16/2021	$172.50
09A	SG-VW63A-02	TO-15	8/16/2021	$172.50
10A	SG-VW63B-02	TO-15	8/16/2021	$172.50
11A	SG-VW63B-03	TO-15	8/16/2021	$172.50
12A	SG-VW55A-03	TO-15	8/17/2021	$172.50
13A	SG-VW20A-03	TO-15	8/17/2021	$172.50
14A	SG-VW21A-04	TO-15	8/17/2021	$172.50
15A	SG-VW24A-05	TO-15	8/17/2021	$172.50
16A	SG-VW29A-03	TO-15	8/17/2021	$172.50
17A	SG-VW64A-02	TO-15	8/17/2021	$172.50
18A	SG-VW59A-02	TO-15	8/17/2021	$172.50
19A	SG-VW59B-02	TO-15	8/17/2021	$172.50
20A	SSV-FSS01-02	TO-15	8/17/2021	$172.50

Note: Samples received after 3 P.M. PST are considered to be received on the following work day.
Atlas Project Name/Profile#: SMUD 59th Street Corporation Yard/25677

BILL TO: Mr. Jerry Montgomery
SWPPQueen
7202 Gloria Drive #25
Sacramento, CA 95831

Analysis Code: TO-14A

REMARKS: A 15% surcharge is applied for a 5 day turnaround time.

TERMS:

Reporting Method: TO-15 (Sp)-AECOM (SMUD 59th alphanumeric)

SAMPLE RECEIPT SUMMARY Continued

Client

Mr. Robert Kohlhardt
AECOM
2020 L Street, Suite 400
Sacramento, CA 95811

Phone

916-679-2000

Fax

916-679-2900

Sales Rep: DaV

Date Promised: 08/24/21 5:00 pm
Date Completed:
Date Received: 8/17/21
PO#:
Project#: 60632793.6 SMUD 59th ST.

Total $: $ 5,689.00
Logged By: CH

Fraction	Sample #	Analysis	Collected	Amount$
21A	SSV-FSS01-03	TO-15	8/17/2021	$172.50
22A	SSV-FSS02-02	TO-15	8/17/2021	$172.50
23A	SSV-GSS01-02	TO-15	8/17/2021	$172.50
24A	SSV-GSS02-02	TO-15	8/17/2021	$172.50
25A	SSV-HMBSS01-02	TO-15	8/17/2021	$172.50
26A	SSV-JSS01-02	TO-15	8/17/2021	$172.50

Misc. Charges	1 Liter Summa Canister (15) @ $20.00 each., Shipment 140637	$300.00
	1 Liter Summa Canister (15) @ $20.00 each., Shipment 140638	$300.00
	EATL Flow controller (14) @ $15.00 each., Shipment 140637	$210.00
	EATL Flow controller (12) @ $15.00 each., Shipment 140638	$180.00
	eCVP (26) @ $3.00 each.	$78.00
	Fitting w/ Pink Ferrule (30) @ $4.00 each.	$120.00
	Duplicate Sampling T (2) @ $8.00 each.	$16.00

Note: Samples received after 3 P.M. PST are considered to be received on the following work day.
Atlas Project Name/Profile#: SMUD 59th Street Corporation Yard/25677

BILL TO: Mr. Jerry Montgomery
SWPPQueen
7202 Gloria Drive #25
Sacramento, CA 95831

Analysis Code: TO-14A

REMARKS: A 15% surcharge is applied for a 5 day turnaround time.

TERMS:

Reporting Method: TO-15 (Sp)-AECOM (SMUD 59th alphanumeric)

Other Records

Air Toxics Ltd.

Curve Response Factors
p082006.d

Compound	Ave. RF	% RSD
TPH	47642	0.00047

mjb 08/20/21

Air Toxics Ltd.

List of Selected Compounds

Data File: p082006.d
Sample #: 3234-27
Client ID: Calib
Spike Level: 500
Dilution Factor: 1

Compounds	% Area	RT	Peak Area	10
Unknown Peak 1.5344	0.20	1.534	64393	
Butane	0.57	2.032	186686	
Unknown Peak 2.2394	0.10	2.239	32149	
Isopentane	3.27	2.633	1068254	
Unknown Peak 2.9700	1.11	2.970	363859	
Unknown Peak 3.1706	0.16	3.171	50970	
Ethanol	1.46	3.242	477187	
Unknown Peak 3.3855	0.34	3.386	110053	
Unknown Peak 3.5359	0.13	3.536	42554	
Unknown Peak 4.0803	1.56	4.080	510444	
Unknown Peak 4.1161	1.19	4.116	389519	
Unknown Peak 4.1806	0.18	4.181	59259	
Unknown Peak 4.3955	0.67	4.396	219216	
Unknown Peak 4.6175	0.09	4.618	28577	
Hexane	0.72	4.696	235163	
Unknown Peak 4.8181	0.07	4.818	21738	
Unknown Peak 4.8825	0.07	4.883	22857	
Unknown Peak 4.9255	0.11	4.926	34381	
Unknown Peak 5.0115	0.05	5.012	16055	
Unknown Peak 5.0831	0.05	5.083	17841	
Unknown Peak 5.2264	1.38	5.226	451813	
Unknown Peak 5.3267	0.55	5.327	181462	
Unknown Peak 5.384	0.12	5.384	39680	
Bromochloromethane	2.61	5.785	854078	
Tetrahydrofuran	0.66	5.893	216629	
Cyclohexane	1.54	5.957	503557	
Unknown Peak 6.0573	0.68	6.057	222739	
2,2,4-Trimethylpentane	6.51	6.279	2129031	
Benzene	0.08	6.301	24558	
1,2-Dichloroethane-d4	16.45	6.308	5379978	
Heptane	0.79	6.451	256987	
Unknown Peak 6.5945	0.26	6.595	86146	
1,4-Difluorobenzene	3.62	6.666	1183188	
Unknown Peak 6.7807	0.14	6.781	44950	
Unknown Peak 6.8237	0.10	6.824	31140	
Unknown Peak 6.9383	1.44	6.938	470944	
Methylcyclohexane	2.21	6.974	723542	
Unknown Peak 7.0529	0.87	7.053	284932	
Unknown Peak 7.1246	0.19	7.125	61649	
Unknown Peak 7.1747	0.12	7.175	38366	
Unknown Peak 7.3037	4.69	7.304	1534593	
Bromodichloromethane	7.12	7.411	2329143	
Unknown Peak 7.5758	0.92	7.576	300945	
Unknown Peak 7.7048	1.92	7.705	627050	
Unknown Peak 7.7979	0.31	7.798	102751	
Toluene-d8	4.34	7.891	1418726	
4-Methyl-2-pentanone	0.02	7.891	6604	
Toluene	4.19	7.956	1370913	
Unknown Peak 8.0271	0.27	8.027	87595	
Unknown Peak 8.1561	0.39	8.156	125939	
Unknown Peak 8.2420	0.76	8.242	249103	
Unknown Peak 8.3996	0.19	8.400	61462	

Air Toxics Ltd.

List of Selected Compounds

Data File: p082006.d
Sample #: 3234-27
Client ID: Calib
Spike Level: 500
Dilution Factor: 1

	Compounds	% Area	RT	Peak Area	10
✓	Unknown Peak 8.5214	0.11	8.521	34814	
✓	Unknown Peak 8.7219	0.06	8.722	20372	
✓	Unknown Peak 8.8938	0.04	8.894	12911	
✓	Unknown Peak 8.9726	0.15	8.973	49683	
✓	Unknown Peak 9.1231	0.07	9.123	24506	
✓	Unknown Peak 9.2305	0.07	9.231	22114	
✓	Unknown Peak 9.3738	0.09	9.374	30609	
✓	Chlorobenzene-d5	4.45	9.460	1454056	
✓	Ethyl Benzene	0.81	9.567	263477	
✓	m,p-Xylene	2.57	9.718	839690	
✓	Unknown Peak 9.9611	0.06	9.961	18577	
✓	Unknown Peak 10.054	0.05	10.054	15908	
✓	o-Xylene	0.90	10.226	295058	
✓	Cumene	0.24	10.649	79406	
✓	Unknown Peak 10.734	0.38	10.735	124768	
✓	Unknown Peak 10.835	0.20	10.835	63847	
✓	4-Bromofluorobenzene	5.76	10.921	1884085	
✓	Propylbenzene	0.19	11.150	61108	
✓	4-Ethyltoluene	1.28	11.258	419502	
✓	1,3,5-Trimethylbenzene	0.41	11.365	132606	
✓	Unknown Peak 11.630	0.55	11.630	179043	
✓	1,2,4-Trimethylbenzene	1.01	11.816	328990	
✓	Unknown Peak 11.945	0.44	11.945	142834	
✓	Unknown Peak 12.117	0.18	12.117	60292	
✓	Unknown Peak 12.239	0.52	12.239	170922	
✓	Unknown Peak 12.317	0.23	12.318	76081	
✓	Unknown Peak 12.482	0.19	12.483	62796	
✓	Unknown Peak 12.547	0.20	12.547	63850	
✓	Unknown Peak 12.597	0.22	12.597	70849	
✓	Unknown Peak 12.647	0.16	12.647	50843	
✓	Unknown Peak 12.740	0.07	12.740	21307	
✓	Unknown Peak 12.819	0.04	12.819	14204	
✓	Unknown Peak 12.919	0.08	12.920	24610	
✓	Unknown Peak 12.955	0.09	12.955	30374	
✓	Unknown Peak 13.034	0.10	13.034	33584	
✓	Unknown Peak 13.184	0.07	13.185	24034	
✓	Unknown Peak 13.377	0.05	13.378	17765	
✓	Unknown Peak 13.521	0.21	13.521	69597	
✓	Unknown Peak 13.836	0.06	13.836	20599	
✓	Unknown Peak 14.015	0.10	14.015	32292	
✓	Unknown Peak 14.796	0.04	14.796	12917	

Air Toxics Ltd.

Curve Response Factors
p082106.d

Compound	Ave. RF	% RSD
TPH	43591	0.00041

Air Toxics Ltd.

List of Selected Compounds

Data File: p082106.d
Sample #: 3234-27
Client ID: Calib
Spike Level: 500
Dilution Factor: 1

Compounds	% Area	RT	Peak Area	10
Unknown Peak 1.5206	0.21	1.521	63930	
Unknown Peak 1.8704	0.07	1.870	20108	
Unknown Peak 2.0318	0.65	2.032	195078	
Unknown Peak 2.2395	0.07	2.240	20663	
Unknown Peak 2.6406	3.38	2.641	1018442	
Unknown Peak 2.9701	1.18	2.970	355166	
Unknown Peak 3.1707	0.16	3.171	49503	
Ethanol	1.49	3.242	448683	
Unknown Peak 3.3927	0.36	3.393	109114	
Unknown Peak 3.5432	0.14	3.543	42415	
Unknown Peak 4.0804	1.54	4.080	464950	
Unknown Peak 4.1162	1.41	4.116	423832	
Unknown Peak 4.4027	0.67	4.403	202805	
Unknown Peak 4.6176	0.09	4.618	25991	
Hexane	0.76	4.696	227595	
Unknown Peak 4.8182	0.06	4.818	18155	
Unknown Peak 4.8827	0.11	4.883	33893	
Unknown Peak 4.9256	0.11	4.926	33388	
Unknown Peak 5.0044	0.06	5.004	19046	
Unknown Peak 5.0832	0.08	5.083	25323	
Unknown Peak 5.2265	1.37	5.227	413608	
Unknown Peak 5.3268	0.57	5.327	170404	
Unknown Peak 5.3841	0.11	5.384	32671	
Bromochloromethane	2.63	5.785	793265	
Tetrahydrofuran	0.63	5.893	190497	
Cyclohexane	1.51	5.964	455468	
Unknown Peak 6.0574	0.66	6.057	199517	
2,2,4-Trimethylpentane	6.55	6.287	1974685	
Benzene	0.08	6.301	23073	
1,2-Dichloroethane-d4	16.73	6.308	5043110	
Heptane	0.68	6.451	205809	
Unknown Peak 6.5946	0.15	6.595	46324	
1,4-Difluorobenzene	3.47	6.666	1045887	
Unknown Peak 6.8238	0.06	6.824	17570	
Unknown Peak 6.9384	1.34	6.938	403199	
Unknown Peak 6.9814	2.21	6.981	667217	
Unknown Peak 7.0531	0.86	7.053	259645	
Unknown Peak 7.1247	0.16	7.125	49178	
Unknown Peak 7.1748	0.09	7.175	27147	
Unknown Peak 7.3038	4.71	7.304	1418612	
Bromodichloromethane	7.17	7.404	2162244	
Unknown Peak 7.576	0.88	7.576	266129	
Unknown Peak 7.7121	1.86	7.712	559775	
Unknown Peak 7.7980	0.31	7.798	94867	
4-Methyl-2-pentanone	0.02	7.891	5987	
Toluene-d8	4.47	7.891	1346264	
Toluene	4.22	7.956	1270457	
Unknown Peak 8.0344	0.25	8.034	75630	
Unknown Peak 8.1562	0.34	8.156	102632	
Unknown Peak 8.2421	0.72	8.242	215635	
Unknown Peak 8.3925	0.18	8.393	55644	
Unknown Peak 8.5215	0.13	8.522	37792	

Air Toxics Ltd.

File Response Factors

Data File: p082106.d
Sample #: 3234-27
Client ID: Calib
Spike Level: 500
Dilution Factor: 1

Compound	RF	RT
TPH	43591.1771583	0

Air Toxics Ltd.

File Results

Data File: File Information: p082008.d
Sample #: 2108390-01A
Client ID:
Spike Level: 0
Dilution Factor: 2.1

Compound	Amount (ppbv)	(Area - Blank Area)/ RF * DF
TNMOC (Ref. to Gasolin	1900	(48986378.6635614 - 6725147.5565133 / 47642)

Air Toxics Ltd.

List of Selected Compounds

Data File: File Information: p082008.d
Sample #: 2108390-01A
Client ID:
Spike Level: 0
Dilution Factor: 2.1

Compounds	RT	Peak Area	10
Unknown Peak 1.5064	1.506	20382705	
Unknown Peak 1.8702	1.870	139814	
Unknown Peak 2.0388	2.039	29165	
Unknown Peak 2.2537	2.254	52706	
Unknown Peak 2.6477	2.648	30582	
Unknown Peak 2.9700	2.970	11085	
Unknown Peak 3.2637	3.264	23522	
Unknown Peak 3.7293	3.729	61126	
Unknown Peak 3.9084	3.908	20507	
Unknown Peak 4.1233	4.123	2412172	
Unknown Peak 4.3954	4.395	4637334	
Hexane	4.696	26548137	
Unknown Peak 5.1189	5.119	31786	
Unknown Peak 5.2264	5.226	16612	
Unknown Peak 5.3266	5.327	6016875	
Unknown Peak 5.4771	5.477	60465	
Bromochloromethane	5.785	925016	
Cyclohexane	5.957	193300	
1,2-Dichloroethane-d4	6.315	514531	
Unknown Peak 6.5157	6.516	15351	
1,4-Difluorobenzene	6.666	1071898	
Unknown Peak 6.8166	6.817	12214	
Unknown Peak 7.0386	7.039	11622	
Unknown Peak 7.1246	7.125	17394	
Unknown Peak 7.5758	7.576	52744	
4-Methyl-2-pentanone	7.798	31618	
Toluene-d8	7.891	1322287	
Toluene	7.956	65202	
Unknown Peak 8.0414	8.041	84322	
Unknown Peak 8.1560	8.156	299100	
Unknown Peak 8.2850	8.285	162485	
Tetrachloroethene	8.464	1725006	
Unknown Peak 8.6646	8.665	263636	
Unknown Peak 8.9082	8.908	10441	
Chlorobenzene-d5	9.460	1412370	
Ethyl Benzene	9.567	126022	
m,p-Xylene	9.718	388822	
o-Xylene	10.226	145523	
Unknown Peak 10.598	10.599	53343	
4-Bromofluorobenzene	10.921	1806007	
Unknown Peak 11.150	11.150	16450	
Unknown Peak 11.257	11.258	142867	
Unknown Peak 11.408	11.408	18960	
Unknown Peak 11.623	11.623	40867	
1,2,4-Trimethylbenzene	11.816	69618	
Unknown Peak 11.952	11.953	83309	
Unknown Peak 12.081	12.081	24482	
Unknown Peak 12.239	12.239	38613	
Unknown Peak 12.317	12.318	14494	
Unknown Peak 12.453	12.454	82629	
Unknown Peak 12.640	12.640	37868	
Unknown Peak 12.819	12.819	16612	

Air Toxics Ltd.

List of Selected Compounds

Data File: File Information: p082008.d
Sample #: 2108390-01A
Client ID:
Spike Level: 0
Dilution Factor: 2.1

	Compounds	RT	Peak Area	10
☐	Unknown Peak 12.983	12.984	35171	☐
☐	Unknown Peak 13.306	13.306	10276	☐
☑	Unknown Peak 13.363	13.364	39560	☐
☑	Unknown Peak 13.514	13.514	15244	☐
☑	Unknown Peak 13.642	13.643	29132	☐
☑	Unknown Peak 13.800	13.801	27850	☐
☑	Unknown Peak 14.917	14.918	17716	☐

Air Toxics Ltd.

File Results

Data File: File Information: p082009.d
Sample #: 2108390-02A
Client ID:
Spike Level: 0
Dilution Factor: 2.14

Compound	Amount (ppbv)	(Area - Blank Area)/ RF * DF
TNMOC (Ref. to Gasolin	460	(16892933.8518196 - 6725147.5565133 / 47642)

Air Toxics Ltd.

List of Selected Compounds

Data File: File Information: p082009.d
Sample #: 2108390-02A
Client ID:
Spike Level: 0
Dilution Factor: 2.14

Compounds	RT	Peak Area	10
Unknown Peak 1.5064	1.506	7610305	
1,1-Difluoroethane	1.716	5203322	
Unknown Peak 2.2393	2.239	40804	
Unknown Peak 2.6405	2.641	22433	
Unknown Peak 3.2637	3.264	14593	
Unknown Peak 3.7293	3.729	90680	
Unknown Peak 3.9012	3.901	22787	
Unknown Peak 4.1232	4.123	543298	
Unknown Peak 4.3954	4.395	1015860	
Hexane	4.696	5547578	
Unknown Peak 5.3266	5.327	1100806	
Unknown Peak 5.4770	5.477	32019	
Unknown Peak 5.5630	5.563	16555	
Bromochloromethane	5.785	858347	
Chloroform	5.842	33115	
Cyclohexane	5.957	35964	
1,2-Dichloroethane-d4	6.315	516376	
Unknown Peak 6.5157	6.516	13137	
1,4-Difluorobenzene	6.666	1033002	
Unknown Peak 6.8165	6.817	21107	
Unknown Peak 7.1245	7.125	19027	
Unknown Peak 7.3036	7.304	14806	
Unknown Peak 7.4111	7.411	12208	
Unknown Peak 7.5758	7.576	47856	
4-Methyl-2-pentanone	7.798	43404	
Toluene-d8	7.891	1275657	
Toluene	7.955	57145	
Unknown Peak 8.0486	8.049	23077	
Unknown Peak 8.1560	8.156	79802	
Unknown Peak 8.3064	8.306	125712	
Tetrachloroethene	8.464	54460	
Unknown Peak 8.6646	8.665	301665	
Chlorobenzene-d5	9.460	1386797	
Ethyl Benzene	9.567	134256	
m,p-Xylene	9.718	426955	
Unknown Peak 10.075	10.076	15397	
o-Xylene	10.226	157990	
Unknown Peak 10.362	10.362	11194	
Unknown Peak 10.505	10.506	11805	
Unknown Peak 10.598	10.599	49665	
4-Bromofluorobenzene	10.921	1773114	
Unknown Peak 11.150	11.150	21876	
4-Ethyltoluene	11.250	149434	
Unknown Peak 11.408	11.408	22490	
Unknown Peak 11.622	11.623	60816	
1,2,4-Trimethylbenzene	11.816	82030	
Unknown Peak 11.945	11.945	102847	
Unknown Peak 12.074	12.074	59213	
Unknown Peak 12.238	12.239	61447	
Unknown Peak 12.317	12.318	27339	
Unknown Peak 12.453	12.454	144308	
Unknown Peak 12.632	12.633	36189	

Air Toxics Ltd.

List of Selected Compounds

Data File: File Information: p082009.d
Sample #: 2108390-02A
Client ID:
Spike Level: 0
Dilution Factor: 2.14

	Compounds	RT	Peak Area	10
☑	Unknown Peak 12.812	12.812	14608	☐
☐	Unknown Peak 12.976	12.977	48535	☐
☑	Unknown Peak 13.363	13.364	61686	☐
☑	Unknown Peak 13.506	13.507	29417	☐
☑	Unknown Peak 13.642	13.643	37350	☐
☑	Unknown Peak 13.800	13.801	34912	☐
☑	Unknown Peak 13.950	13.951	14479	☐
☑	Unknown Peak 14.910	14.911	17653	☐

Air Toxics Ltd.

File Results

Data File: File Information: p082010.d
Sample #: 2108390-03A
Client ID:
Spike Level: 0
Dilution Factor: 2.02

Compound	Amount (ppbv)	(Area - Blank Area)/ RF * DF
TNMOC (Ref. to Gasolin	1000	(31004953.8609334 - 6725147.5565133 / 47642)

Air Toxics Ltd.

List of Selected Compounds

Data File: File Information: p082010.d
Sample #: 2108390-03A
Client ID:
Spike Level: 0
Dilution Factor: 2.02

Compounds	RT	Peak Area	10
Unknown Peak 1.5066	1.507	7219556	
1,1-Difluoroethane	1.717	3238190	
Unknown Peak 1.8984	1.898	630581	
Unknown Peak 2.2467	2.247	39909	
Unknown Peak 2.6406	2.641	41680	
Unknown Peak 2.9773	2.977	27232	
Unknown Peak 3.2925	3.293	75820	
Unknown Peak 3.7294	3.729	69565	
2-Propanol	3.901	39529	
Unknown Peak 4.1234	4.123	1762715	
Unknown Peak 4.3956	4.396	3142637	
Hexane	4.696	14907220	
Unknown Peak 5.1334	5.133	16808	
Unknown Peak 5.3268	5.327	2975702	
Unknown Peak 5.4772	5.477	46148	
Unknown Peak 5.5632	5.563	10924	
Bromochloromethane	5.785	719913	
Chloroform	5.843	632126	
Cyclohexane	5.964	94150	
Unknown Peak 6.0861	6.086	13266	
1,2-Dichloroethane-d4	6.315	490537	
1,4-Difluorobenzene	6.666	1031359	
Unknown Peak 6.8167	6.817	19328	
Unknown Peak 7.1247	7.125	11894	
Unknown Peak 7.4112	7.411	14360	
Unknown Peak 7.5760	7.576	44962	
4-Methyl-2-pentanone	7.798	36566	
Toluene-d8	7.891	1260516	
Toluene	7.956	45894	
Unknown Peak 8.1419	8.142	14516	
Unknown Peak 8.3066	8.307	19391	
Unknown Peak 8.3782	8.378	19842	
Tetrachloroethene	8.464	465216	
Unknown Peak 8.6648	8.665	283510	
Unknown Peak 8.9011	8.901	14748	
Unknown Peak 9.2163	9.216	17456	
Chlorobenzene-d5	9.460	1367780	
Ethyl Benzene	9.567	102467	
m,p-Xylene	9.711	300153	
o-Xylene	10.226	118058	
Unknown Peak 10.505	10.506	12620	
Unknown Peak 10.842	10.842	18746	
4-Bromofluorobenzene	10.921	1692517	
Unknown Peak 11.150	11.150	12350	
4-Ethyltoluene	11.251	151800	
Unknown Peak 11.365	11.365	38810	
Unknown Peak 11.615	11.616	52258	
1,2,4-Trimethylbenzene	11.817	72190	
Unknown Peak 11.945	11.945	73068	
Unknown Peak 12.067	12.067	26002	
Unknown Peak 12.110	12.110	13063	
Unknown Peak 12.239	12.239	25554	

Air Toxics Ltd.

List of Selected Compounds

Data File: File Information: p082010.d
Sample #: 2108390-03A
Client ID:
Spike Level: 0
Dilution Factor: 2.02

	Compounds	RT	Peak Area	10
☑	Unknown Peak 12.317	12.318	34159	☐
☐	Unknown Peak 12.454	12.454	172722	☐
☑	Unknown Peak 12.640	12.640	31872	☐
☐	Unknown Peak 12.819	12.819	16335	☐
☑	Unknown Peak 12.976	12.977	49969	☐
☑	Unknown Peak 13.306	13.306	10546	☐
☐	Unknown Peak 13.363	13.364	67148	☐
☑	Unknown Peak 13.528	13.528	26456	☐
☑	Unknown Peak 13.643	13.643	39055	☐
☑	Unknown Peak 13.800	13.801	39584	☐
☑	Unknown Peak 13.958	13.958	13129	☐
☑	Unknown Peak 14.509	14.510	13650	☐
☑	Unknown Peak 14.918	14.918	21990	☐
☑	Unknown Peak 15.462	15.463	13836	☐

Air Toxics Ltd.

File Results

Data File: File Information: p082022.d
Sample #: 2108390-04A
Client ID:
Spike Level: 0
Dilution Factor: 2.19

Compound	Amount (ppbv)	(Area - Blank Area)/ RF * DF
TNMOC (Ref. to Gasolin	300	(13310265.1419446 - 6725147.5565133 / 47642)

Air Toxics Ltd.

List of Selected Compounds

Data File: File Information: p082022.d
Sample #: 2108390-04A
Client ID:
Spike Level: 0
Dilution Factor: 2.19

Compounds	RT	Peak Area	10
Unknown Peak 1.2547	1.255	53325	
Unknown Peak 1.5065	1.507	628641	
Freon 12	1.730	59449	
Unknown Peak 2.0246	2.025	31005	
Unknown Peak 2.2394	2.239	35268	
Acetone	3.729	88597	
Unknown Peak 3.9084	3.908	28660	
Unknown Peak 4.1233	4.123	325930	
Unknown Peak 4.4027	4.403	619798	
Hexane	4.704	4117779	
Unknown Peak 5.3267	5.327	745689	
Unknown Peak 5.4771	5.477	48563	
Unknown Peak 5.5631	5.563	11654	
Bromochloromethane	5.792	749265	
Unknown Peak 5.9571	5.957	46841	
Unknown Peak 6.0573	6.057	11935	
1,2-Dichloroethane-d4	6.315	514670	
1,4-Difluorobenzene	6.666	958660	
Unknown Peak 6.8166	6.817	22911	
Unknown Peak 7.1246	7.125	14234	
Unknown Peak 7.3037	7.304	12185	
Unknown Peak 7.4183	7.418	11786	
Unknown Peak 7.5759	7.576	24279	
4-Methyl-2-pentanone	7.798	28812	
Toluene-d8	7.898	1195347	
Toluene	7.956	71109	
Unknown Peak 8.0487	8.049	15655	
Unknown Peak 8.149	8.149	12208	
Tetrachloroethene	8.471	620210	
Unknown Peak 8.6647	8.665	175128	
Chlorobenzene-d5	9.460	1315907	
Ethyl Benzene	9.567	70872	
m,p-Xylene	9.718	177243	
o-Xylene	10.226	73775	
Unknown Peak 10.605	10.606	11912	
Unknown Peak 10.849	10.849	16917	
4-Bromofluorobenzene	10.921	1609773	
Unknown Peak 11.150	11.150	13733	
Unknown Peak 11.257	11.258	73298	
Unknown Peak 11.630	11.630	25555	
Unknown Peak 11.816	11.816	46363	
Unknown Peak 11.938	11.938	49816	
Unknown Peak 12.067	12.067	24263	
Unknown Peak 12.117	12.117	13558	
Unknown Peak 12.239	12.239	11215	
Unknown Peak 12.317	12.318	21604	
Unknown Peak 12.453	12.454	153496	
Unknown Peak 12.633	12.633	51301	
Unknown Peak 12.804	12.805	11725	
Unknown Peak 12.984	12.984	54158	
Unknown Peak 13.363	13.364	58372	
Unknown Peak 13.521	13.521	30363	

List of Selected Compounds

Data File: File Information: p082022.d
Sample #: 2108390-04A
Client ID:
Spike Level: 0
Dilution Factor: 2.19

Compounds	RT	Peak Area	10
☑ Unknown Peak 13.643	13.643	42516	☐
☑ Unknown Peak 13.800	13.801	67055	☐
☑ Unknown Peak 13.958	13.958	10103	☐
☑ Unknown Peak 14.516	14.517	17291	☐
☑ Unknown Peak 14.731	14.732	32298	☐
☐ Unknown Peak 14.910	14.911	28894	☐
☑ Unknown Peak 15.261	15.262	12542	☐
☑ Unknown Peak 15.469	15.470	48020	☐

Air Toxics Ltd.

File Results

Data File: File Information: p082012.d
Sample #: 2108390-05A
Client ID:
Spike Level: 0
Dilution Factor: 2.06

Compound	Amount (ppbv)	(Area - Blank Area)/ RF * DF
TNMOC (Ref. to Gasolin	190	(11181970.7279114 - 6725147.5565133 / 47642)

Air Toxics Ltd.

List of Selected Compounds

Data File: File Information: p082012.d
Sample #: 2108390-05A
Client ID:
Spike Level: 0
Dilution Factor: 2.06

Compounds	RT	Peak Area	10
Unknown Peak 1.2406	1.241	64992	
Unknown Peak 1.5065	1.507	4466526	
Freon 12	1.730	208418	
Unknown Peak 2.0317	2.032	37043	
Unknown Peak 2.2466	2.247	33679	
Unknown Peak 2.6405	2.641	29778	
Unknown Peak 2.9700	2.970	71240	
Unknown Peak 3.2709	3.271	11672	
Unknown Peak 3.7293	3.729	75414	
2-Propanol	3.908	67234	
Unknown Peak 4.1233	4.123	224913	
Unknown Peak 4.4026	4.403	431346	
Hexane	4.696	2472036	
Unknown Peak 5.3267	5.327	569252	
Unknown Peak 5.4771	5.477	21527	
Bromochloromethane	5.785	749307	
Chloroform	5.842	5237	
Unknown Peak 5.9642	5.964	29143	
1,2-Dichloroethane-d4	6.315	488159	
1,4-Difluorobenzene	6.666	992178	
Unknown Peak 6.8238	6.824	14399	
Unknown Peak 7.5759	7.576	25522	
Unknown Peak 7.7979	7.798	17671	
Toluene-d8	7.891	1237597	
Unknown Peak 8.0486	8.049	19344	
Unknown Peak 8.3137	8.314	25252	
Tetrachloroethene	8.471	1534993	
Unknown Peak 8.6647	8.665	121093	
Chlorobenzene-d5	9.460	1344727	
Unknown Peak 9.5672	9.567	46232	
m,p-Xylene	9.718	112194	
o-Xylene	10.226	44459	
Unknown Peak 10.605	10.606	12356	
4-Bromofluorobenzene	10.921	1685580	
Unknown Peak 11.150	11.150	10422	
Unknown Peak 11.257	11.258	70582	
Unknown Peak 11.630	11.630	32042	
Unknown Peak 11.816	11.816	32731	
Unknown Peak 11.945	11.945	56033	
Unknown Peak 12.067	12.067	17000	
Unknown Peak 12.117	12.117	20315	
Unknown Peak 12.246	12.246	45847	
Unknown Peak 12.453	12.454	143385	
Unknown Peak 12.640	12.640	31596	
Unknown Peak 12.812	12.812	18026	
Unknown Peak 12.955	12.955	16955	
Unknown Peak 12.976	12.977	20673	
Unknown Peak 13.363	13.364	50255	
Unknown Peak 13.492	13.493	15915	
Unknown Peak 13.643	13.643	37046	
Unknown Peak 13.800	13.801	39994	
Unknown Peak 14.509	14.510	13337	

Air Toxics Ltd.

List of Selected Compounds

Data File: File Information: p082012.d
Sample #: 2108390-05A
Client ID:
Spike Level: 0
Dilution Factor: 2.06

Compounds	RT	Peak Area	10
☑ Unknown Peak 14.731	14.732	21878	☐
☑ Unknown Peak 14.910	14.911	11616	☐
☑ Unknown Peak 15.462	15.462	28886	☐

Air Toxics Ltd.

File Results

Data File: File Information: p082013.d
Sample #: 2108390-06A
Client ID:
Spike Level: 0
Dilution Factor: 2.1

Compound	Amount (ppbv)	(Area - Blank Area)/ RF * DF
TNMOC (Ref. to Gasolin	160	(10307019.1963862 - 6725147.5565133 / 47642)

Air Toxics Ltd.

List of Selected Compounds

Data File: File Information: p082013.d
Sample #: 2108390-06A
Client ID:
Spike Level: 0
Dilution Factor: 2.1

Compounds	RT	Peak Area	10
Unknown Peak 1.2547	1.255	49905	
Unknown Peak 1.5066	1.507	3828020	
Freon 12	1.730	190232	
Unknown Peak 2.2466	2.247	44363	
Unknown Peak 2.8985	2.899	10029	
Unknown Peak 3.7294	3.729	64228	
Unknown Peak 3.9013	3.901	27275	
Unknown Peak 4.1234	4.123	128074	
Unknown Peak 4.3956	4.396	242907	
Hexane	4.696	1921120	
Unknown Peak 5.3268	5.327	291527	
Unknown Peak 5.4772	5.477	56859	
Unknown Peak 5.5703	5.570	12396	
Bromochloromethane	5.785	744673	
Chloroform	5.843	5003	
Unknown Peak 5.9571	5.957	16574	
1,2-Dichloroethane-d4	6.315	488336	
Unknown Peak 6.5158	6.516	12073	
1,4-Difluorobenzene	6.666	981297	
Unknown Peak 7.1247	7.125	13966	
Unknown Peak 7.5759	7.576	29897	
Unknown Peak 7.7980	7.798	17676	
Toluene-d8	7.891	1216951	
Toluene	7.956	63278	
Unknown Peak 8.0487	8.049	16044	
Unknown Peak 8.1490	8.149	22546	
Unknown Peak 8.3639	8.364	15734	
Tetrachloroethene	8.464	788230	
Unknown Peak 8.6647	8.665	92434	
Chlorobenzene-d5	9.460	1340733	
Unknown Peak 9.5601	9.560	39959	
m,p-Xylene	9.711	76613	
Unknown Peak 10.226	10.226	34950	
Unknown Peak 10.598	10.599	15685	
Unknown Peak 10.756	10.756	60207	
Unknown Peak 10.842	10.842	36939	
4-Bromofluorobenzene	10.921	1707352	
Unknown Peak 11.150	11.150	14185	
Unknown Peak 11.250	11.251	54724	
Unknown Peak 11.630	11.630	12798	
Unknown Peak 11.809	11.809	31907	
Unknown Peak 11.938	11.938	48850	
Unknown Peak 12.117	12.117	46772	
Unknown Peak 12.246	12.246	14593	
Unknown Peak 12.317	12.318	12409	
Unknown Peak 12.454	12.454	158175	
Unknown Peak 12.640	12.640	52946	
Unknown Peak 12.690	12.690	22422	
Unknown Peak 12.812	12.812	28462	
Unknown Peak 12.984	12.984	59609	
Unknown Peak 13.363	13.364	52923	
Unknown Peak 13.506	13.507	27128	

Air Toxics Ltd.

List of Selected Compounds

Data File: File Information: p082013.d
Sample #: 2108390-06A
Client ID:
Spike Level: 0
Dilution Factor: 2.1

	Compounds	RT	Peak Area	10
☑	Unknown Peak 13.643	13.643	43412	☐
☑	Unknown Peak 13.800	13.801	56888	☐
☑	Unknown Peak 13.951	13.951	14053	☐
☑	Unknown Peak 14.516	14.517	12963	☐
☑	Unknown Peak 14.731	14.732	44816	☐
☐	Unknown Peak 14.910	14.911	41165	☐
☑	Unknown Peak 15.140	15.140	13465	☐
☑	Unknown Peak 15.261	15.262	20633	☐
☑	Unknown Peak 15.462	15.463	107839	☐

Air Toxics Ltd.

File Results

Data File: File Information: p082014.d
Sample #: 2108390-07A
Client ID:
Spike Level: 0
Dilution Factor: 2.02

Compound	Amount (ppbv)	(Area - Blank Area)/ RF * DF
TNMOC (Ref. to Gasolin	230	(12067895.3246179 - 6725147.5565133 / 47642)

Air Toxics Ltd.

List of Selected Compounds

Data File: File Information: p082014.d
Sample #: 2108390-07A
Client ID:
Spike Level: 0
Dilution Factor: 2.02

Compounds	RT	Peak Area	10
Unknown Peak 1.2547	1.255	57914	
Unknown Peak 1.5066	1.507	2222016	
Freon 12	1.730	100773	
Unknown Peak 2.0246	2.025	25181	
Unknown Peak 2.2395	2.240	37503	
Unknown Peak 3.7294	3.729	73639	
Unknown Peak 3.9085	3.909	25158	
Unknown Peak 4.1234	4.123	209270	
Unknown Peak 4.3956	4.396	430681	
Hexane	4.696	2730251	
Unknown Peak 5.3268	5.327	641833	
Unknown Peak 5.4772	5.477	62574	
Bromochloromethane	5.785	742273	
Unknown Peak 5.9571	5.957	35139	
Benzene	6.301	9288	
1,2-Dichloroethane-d4	6.315	501794	
Unknown Peak 6.5158	6.516	14011	
1,4-Difluorobenzene	6.666	982268	
Unknown Peak 6.8167	6.817	20675	
Unknown Peak 7.1247	7.125	14486	
Unknown Peak 7.4112	7.411	11870	
Unknown Peak 7.5760	7.576	30820	
Unknown Peak 7.7980	7.798	14750	
Toluene-d8	7.891	1217239	
Toluene	7.956	54440	
Unknown Peak 8.3066	8.307	62230	
Tetrachloroethene	8.464	402717	
Unknown Peak 8.6648	8.665	105792	
Chlorobenzene-d5	9.460	1330391	
Unknown Peak 9.5673	9.567	36992	
m,p-Xylene	9.711	79057	
o-Xylene	10.233	39224	
Unknown Peak 10.505	10.506	11518	
Unknown Peak 10.598	10.599	30065	
Unknown Peak 10.756	10.756	25482	
Unknown Peak 10.849	10.850	93447	
4-Bromofluorobenzene	10.921	1704866	
Unknown Peak 11.257	11.258	54583	
Unknown Peak 11.415	11.415	14569	
Unknown Peak 11.637	11.637	23407	
Unknown Peak 11.816	11.817	34856	
Unknown Peak 11.945	11.945	66006	
Unknown Peak 12.074	12.074	31594	
Unknown Peak 12.117	12.117	51472	
Unknown Peak 12.196	12.196	25010	
Unknown Peak 12.239	12.239	47301	
Unknown Peak 12.310	12.311	15870	
Unknown Peak 12.454	12.454	196552	
Unknown Peak 12.640	12.640	55909	
Unknown Peak 12.690	12.690	25590	
Unknown Peak 12.819	12.819	56701	
Unknown Peak 12.984	12.984	77614	

Air Toxics Ltd.

List of Selected Compounds

Data File: File Information: p082014.d
Sample #: 2108390-07A
Client ID:
Spike Level: 0
Dilution Factor: 2.02

Compounds	RT	Peak Area	10
Unknown Peak 13.363	13.364	71341	
Unknown Peak 13.521	13.521	39851	
Unknown Peak 13.643	13.643	62024	
Unknown Peak 13.800	13.801	61504	
Unknown Peak 13.958	13.958	12837	
Unknown Peak 14.352	14.352	10307	
Unknown Peak 14.509	14.510	19247	
Unknown Peak 14.731	14.732	56215	
Unknown Peak 14.910	14.911	35236	
Unknown Peak 15.147	15.147	13546	
Unknown Peak 15.261	15.262	25299	
Unknown Peak 15.469	15.470	121105	

Air Toxics Ltd.

File Results

Data File: File Information: p082026.d
Sample #: 2108390-08A
Client ID:
Spike Level: 0
Dilution Factor: 2.19

Compound	Amount (ppbv)	(Area - Blank Area)/ RF * DF
TNMOC (Ref. to Gasolin	210	(11207462.7628249 - 6725147.5565133 / 47642)

Air Toxics Ltd.

List of Selected Compounds

Data File: File Information: p082026.d
Sample #: 2108390-08A
Client ID:
Spike Level: 0
Dilution Factor: 2.19

Compounds	RT	Peak Area	10
Unknown Peak 1.2548	1.255	49469	
Unknown Peak 1.5066	1.507	799355	
1,1-Difluoroethane	1.717	90105	
Freon 12	1.731	5581	
Unknown Peak 2.0318	2.032	40852	
Unknown Peak 2.2467	2.247	28632	
Unknown Peak 2.6335	2.634	15469	
Acetone	3.729	118417	
Unknown Peak 3.9157	3.916	20663	
Unknown Peak 4.1234	4.123	169526	
Unknown Peak 4.3956	4.396	319489	
Hexane	4.697	1841430	
Unknown Peak 5.3268	5.327	341159	
Unknown Peak 5.4844	5.484	56088	
Unknown Peak 5.5632	5.563	15123	
Bromochloromethane	5.785	685687	
Chloroform	5.843	692657	
Unknown Peak 5.9643	5.964	28676	
1,2-Dichloroethane-d4	6.315	510118	
1,4-Difluorobenzene	6.666	945150	
Unknown Peak 6.9743	6.974	22487	
Unknown Peak 7.1319	7.132	24338	
Bromodichloromethane	7.318	70923	
Unknown Peak 7.4112	7.411	59374	
Unknown Peak 7.5760	7.576	30294	
Unknown Peak 7.7121	7.712	28055	
Unknown Peak 7.7980	7.798	29328	
Toluene-d8	7.891	1194310	
Toluene	7.956	83803	
Unknown Peak 8.0488	8.049	21787	
Unknown Peak 8.1490	8.149	36883	
Unknown Peak 8.2422	8.242	32174	
Tetrachloroethene	8.471	419997	
Unknown Peak 8.6648	8.665	61789	
Unknown Peak 8.7006	8.701	45047	
Unknown Peak 8.7722	8.772	39027	
Unknown Peak 8.9012	8.901	10561	
Unknown Peak 9.0373	9.037	21644	
Unknown Peak 9.1160	9.116	44577	
Chlorobenzene-d5	9.460	1317049	
Ethyl Benzene	9.567	83398	
m,p-Xylene	9.718	186366	
Unknown Peak 10.075	10.076	56475	
o-Xylene	10.234	67167	
Unknown Peak 10.383	10.384	38203	
Unknown Peak 10.498	10.499	21552	
Unknown Peak 10.598	10.599	33587	
Unknown Peak 10.849	10.850	37378	
4-Bromofluorobenzene	10.921	1630568	
Unknown Peak 11.014	11.014	35581	
Unknown Peak 11.143	11.143	17487	
Unknown Peak 11.257	11.258	96737	

List of Selected Compounds

Data File: File Information: p082026.d
Sample #: 2108390-08A
Client ID:
Spike Level: 0
Dilution Factor: 2.19

	Compounds	RT	Peak Area	10
☑	Unknown Peak 11.401	11.401	16206	☐
☑	Unknown Peak 11.623	11.623	34184	☐
☑	Unknown Peak 11.816	11.817	48998	☐
☑	Unknown Peak 11.945	11.945	54830	☐
☑	Unknown Peak 12.067	12.067	22982	☐
☑	Unknown Peak 12.110	12.110	21496	☐
☑	Unknown Peak 12.246	12.246	10594	☐
☑	Unknown Peak 12.317	12.318	37867	☐
☐	Unknown Peak 12.454	12.454	303433	☐
☑	Unknown Peak 12.633	12.633	44315	☐
☑	Unknown Peak 12.690	12.690	22578	☐
☑	Unknown Peak 12.819	12.819	25031	☐
☑	Unknown Peak 12.984	12.984	58378	☐
☑	Unknown Peak 13.306	13.306	11333	☐
☑	Unknown Peak 13.363	13.364	79195	☐
☑	Unknown Peak 13.528	13.529	34377	☐
☑	Unknown Peak 13.643	13.643	45216	☐
☑	Unknown Peak 13.800	13.801	87069	☐
☑	Unknown Peak 13.951	13.951	16033	☐
☑	Unknown Peak 14.509	14.510	25222	☐
☑	Unknown Peak 14.602	14.603	11266	☐
☑	Unknown Peak 14.731	14.732	59617	☐
☑	Unknown Peak 14.918	14.918	57345	☐
☑	Unknown Peak 15.140	15.140	18216	☐
☑	Unknown Peak 15.261	15.262	28060	☐
☑	Unknown Peak 15.469	15.470	154478	☐

Air Toxics Ltd.

File Results

Data File: File Information: p082016.d
Sample #: 2108390-09A
Client ID:
Spike Level: 0
Dilution Factor: 2.1

Compound	Amount (ppbv)	(Area - Blank Area)/ RF * DF
TNMOC (Ref. to Gasolin	140	(9983083.13111931 - 6725147.5565133 / 47642)

Air Toxics Ltd.

List of Selected Compounds

Data File: File Information: p082016.d
Sample #: 2108390-09A
Client ID:
Spike Level: 0
Dilution Factor: 2.1

	Compounds	RT	Peak Area	10
☑	Unknown Peak 14.080	14.080	12016	☐
☑	Unknown Peak 14.416	14.417	27777	☐
☑	Unknown Peak 14.538	14.539	35681	☐
☑	Unknown Peak 14.638	14.639	36264	☐
☑	Unknown Peak 14.760	14.761	119577	☐
☑	Unknown Peak 14.954	14.954	95298	☐
☑	Unknown Peak 15.176	15.176	29017	☐
☑	Unknown Peak 15.305	15.305	46946	☐
☑	Unknown Peak 15.512	15.513	234393	☐

Air Toxics Ltd.

List of Selected Compounds

Data File: File Information: p082016.d
Sample #: 2108390-09A
Client ID:
Spike Level: 0
Dilution Factor: 2.1

Compounds	RT	Peak Area	10
Unknown Peak 1.2548	1.255	52150	
Unknown Peak 1.5067	1.507	406240	
Freon 12	1.731	62815	
Unknown Peak 2.2396	2.240	35194	
Unknown Peak 3.2639	3.264	14951	
Acetone	3.730	105774	
Unknown Peak 3.8370	3.837	39651	
2-Propanol	3.909	90887	
Unknown Peak 4.1235	4.124	94923	
Unknown Peak 4.3957	4.396	171258	
Hexane	4.697	1183894	
Unknown Peak 5.3269	5.327	225281	
Unknown Peak 5.4773	5.477	42099	
Unknown Peak 5.5633	5.563	11616	
Bromochloromethane	5.785	755567	
Chloroform	5.843	11315	
Unknown Peak 6.2509	6.251	23626	
1,2-Dichloroethane-d4	6.315	469978	
1,4-Difluorobenzene	6.666	965131	
Unknown Peak 6.8168	6.817	23171	
Unknown Peak 7.5761	7.576	28318	
Toluene-d8	7.891	1226934	
Unknown Peak 8.1563	8.156	35409	
Unknown Peak 8.3783	8.378	18903	
Tetrachloroethene	8.464	59808	
Unknown Peak 8.6649	8.665	47481	
Chlorobenzene-d5	9.460	1311629	
Unknown Peak 9.5602	9.560	30178	
m,p-Xylene	9.711	46180	
Unknown Peak 10.226	10.226	25366	
Unknown Peak 10.598	10.599	83678	
Unknown Peak 10.849	10.850	31515	
4-Bromofluorobenzene	10.921	1650465	
Unknown Peak 11.250	11.251	157487	
Unknown Peak 11.415	11.415	25611	
Unknown Peak 11.630	11.630	21016	
Unknown Peak 11.816	11.817	29241	
Unknown Peak 11.945	11.946	61498	
Unknown Peak 12.110	12.110	99959	
Unknown Peak 12.239	12.239	53548	
Unknown Peak 12.454	12.454	231565	
Unknown Peak 12.640	12.640	142078	
Unknown Peak 12.697	12.698	50268	
Unknown Peak 12.855	12.855	16084	
Unknown Peak 12.991	12.991	81387	
Unknown Peak 13.184	13.185	14349	
Unknown Peak 13.328	13.328	25260	
Unknown Peak 13.378	13.378	77361	
Unknown Peak 13.521	13.521	60968	
Unknown Peak 13.664	13.665	35529	
Unknown Peak 13.822	13.822	212535	
Unknown Peak 13.972	13.973	47541	

Air Toxics Ltd.

File Results

Data File: File Information: p082017.d
Sample #: 2108390-10A
Client ID:
Spike Level: 0
Dilution Factor: 2.1

Compound	Amount (ppbv)	(Area - Blank Area)/ RF * DF
TNMOC (Ref. to Gasolin	240	(12239863.4882989 - 6725147.5565133 / 47642)

Air Toxics Ltd.

List of Selected Compounds

Data File: File Information: p082017.d
Sample #: 2108390-10A
Client ID:
Spike Level: 0
Dilution Factor: 2.1

Compounds	RT	Peak Area	10
Unknown Peak 1.2408	1.241	57273	
Unknown Peak 1.5066	1.507	5148887	
Freon 12	1.731	189393	
Unknown Peak 2.0247	2.025	19729	
Unknown Peak 2.2467	2.247	49239	
Unknown Peak 3.7366	3.737	64148	
Unknown Peak 3.9014	3.901	29830	
Unknown Peak 4.1234	4.123	215848	
Unknown Peak 4.4028	4.403	390789	
Hexane	4.697	3315398	
Unknown Peak 5.3268	5.327	501107	
Unknown Peak 5.4844	5.484	29187	
Unknown Peak 5.5560	5.556	13871	
Bromochloromethane	5.785	719604	
Chloroform	5.843	523881	
Unknown Peak 5.9572	5.957	19365	
Unknown Peak 6.2508	6.251	15969	
1,2-Dichloroethane-d4	6.315	473082	
1,4-Difluorobenzene	6.666	979608	
Unknown Peak 6.8167	6.817	15201	
Unknown Peak 7.1247	7.125	41017	
Bromodichloromethane	7.318	26699	
Unknown Peak 7.5760	7.576	24993	
Unknown Peak 7.7981	7.798	13187	
Toluene-d8	7.891	1227273	
Unknown Peak 8.0488	8.049	71483	
Unknown Peak 8.1562	8.156	192467	
Unknown Peak 8.3066	8.307	105442	
Tetrachloroethene	8.471	494671	
Unknown Peak 8.6648	8.665	40875	
Chlorobenzene-d5	9.460	1315911	
Unknown Peak 9.5673	9.567	18347	
Unknown Peak 9.7178	9.718	26528	
Unknown Peak 10.226	10.226	16873	
Unknown Peak 10.505	10.506	13609	
Unknown Peak 10.598	10.599	36160	
Unknown Peak 10.763	10.764	13257	
4-Bromofluorobenzene	10.921	1678753	
Unknown Peak 11.250	11.251	117001	
Unknown Peak 11.401	11.401	16933	
Unknown Peak 11.816	11.817	19360	
Unknown Peak 11.931	11.931	26923	
Unknown Peak 11.981	11.981	27994	
Unknown Peak 12.117	12.117	122634	
Unknown Peak 12.189	12.189	43284	
Unknown Peak 12.239	12.239	40831	
Unknown Peak 12.468	12.468	52883	
Unknown Peak 12.640	12.640	117746	
Unknown Peak 12.697	12.698	40234	
Unknown Peak 12.762	12.762	10322	
Unknown Peak 12.998	12.998	65270	
Unknown Peak 13.320	13.321	19566	

Air Toxics Ltd.

List of Selected Compounds

Data File: File Information: p082017.d
Sample #: 2108390-10A
Client ID:
Spike Level: 0
Dilution Factor: 2.1

	Compounds	RT	Peak Area	10
☑	Unknown Peak 13.378	13.378	76043	☐
☑	Unknown Peak 13.514	13.514	41185	☐
☑	Unknown Peak 13.657	13.657	19828	☐
☑	Unknown Peak 13.764	13.765	26479	☐
☐	Unknown Peak 13.822	13.822	123856	☐
☑	Unknown Peak 13.972	13.973	30521	☐
☑	Unknown Peak 14.545	14.546	30327	☐
☑	Unknown Peak 14.631	14.632	11820	☐
☑	Unknown Peak 14.760	14.761	48849	☐
☑	Unknown Peak 14.953	14.954	42178	☐
☑	Unknown Peak 15.197	15.198	18309	☐
☑	Unknown Peak 15.297	15.298	22502	☐
☑	Unknown Peak 15.512	15.513	158309	☐

Air Toxics Ltd.

File Results

Data File: File Information: p082020.d
Sample #: 2108390-11A
Client ID:
Spike Level: 0
Dilution Factor: 2.1

Compound	Amount (ppbv)	(Area - Blank Area)/ RF * DF
TNMOC (Ref. to Gasolin	110	(9268730.47571984 - 6725147.5565133 / 47642)

Air Toxics Ltd.

List of Selected Compounds

Data File: File Information: p082020.d
Sample #: 2108390-11A
Client ID:
Spike Level: 0
Dilution Factor: 2.1

Compounds	RT	Peak Area	10
Unknown Peak 1.2406	1.241	48919	
Unknown Peak 1.5065	1.507	5109067	
Freon 12	1.730	282838	
Unknown Peak 2.0245	2.025	21355	
Unknown Peak 2.2322	2.232	25483	
Unknown Peak 3.7293	3.729	28741	
Unknown Peak 3.9084	3.908	12549	
Unknown Peak 4.1233	4.123	75644	
Unknown Peak 4.3955	4.396	132693	
Hexane	4.696	1220704	
Unknown Peak 5.3267	5.327	172878	
Unknown Peak 5.4771	5.477	32247	
Bromochloromethane	5.785	692656	
Chloroform	5.842	481353	
Unknown Peak 5.9499	5.950	15539	
Unknown Peak 6.2507	6.251	12678	
1,2-Dichloroethane-d4	6.315	473878	
1,4-Difluorobenzene	6.659	966065	
Unknown Peak 6.8166	6.817	14735	
Bromodichloromethane	7.318	28370	
Unknown Peak 7.5759	7.576	23343	
Toluene-d8	7.891	1187826	
Unknown Peak 8.0415	8.041	16302	
Unknown Peak 8.1704	8.170	14397	
Unknown Peak 8.3208	8.321	58251	
Tetrachloroethene	8.464	477637	
Unknown Peak 8.6646	8.665	50388	
Chlorobenzene-d5	9.460	1313021	
Unknown Peak 9.5815	9.582	24829	
Unknown Peak 9.7104	9.710	25764	
Unknown Peak 10.226	10.226	14083	
Unknown Peak 10.598	10.599	32968	
4-Bromofluorobenzene	10.921	1649167	
Unknown Peak 11.150	11.150	10042	
Unknown Peak 11.250	11.251	107007	
Unknown Peak 11.415	11.415	12898	
Unknown Peak 11.630	11.630	14528	
Unknown Peak 11.809	11.809	19892	
Unknown Peak 11.938	11.938	23857	
Unknown Peak 12.110	12.110	91228	
Unknown Peak 12.188	12.189	15852	
Unknown Peak 12.282	12.282	25472	
Unknown Peak 12.453	12.454	200330	
Unknown Peak 12.640	12.640	130987	
Unknown Peak 12.690	12.690	49622	
Unknown Peak 12.754	12.755	11129	
Unknown Peak 12.840	12.841	13875	
Unknown Peak 12.955	12.955	18802	
Unknown Peak 12.984	12.984	33997	
Unknown Peak 13.306	13.306	21192	
Unknown Peak 13.363	13.364	78078	
Unknown Peak 13.499	13.500	36075	

Air Toxics Ltd.

List of Selected Compounds

Data File: File Information: p082020.d
Sample #: 2108390-11A
Client ID:
Spike Level: 0
Dilution Factor: 2.1

	Compounds	RT	Peak Area	10
☑	Unknown Peak 13.643	13.643	30121	☐
☐	Unknown Peak 13.800	13.801	137707	☐
☑	Unknown Peak 13.951	13.951	30928	☐
☑	Unknown Peak 14.115	14.116	11096	☐
☑	Unknown Peak 14.373	14.374	11786	☐
☑	Unknown Peak 14.516	14.517	31213	☐
☑	Unknown Peak 14.602	14.603	13399	☐
☑	Unknown Peak 14.731	14.732	62413	☐
☑	Unknown Peak 14.910	14.911	56112	☐
☑	Unknown Peak 15.140	15.140	19443	☐
☑	Unknown Peak 15.261	15.262	28319	☐
☑	Unknown Peak 15.462	15.462	182181	☐

Air Toxics Ltd.

File Results

Data File: File Information: p082021.d
Sample #: 2108390-12A
Client ID:
Spike Level: 0
Dilution Factor: 2.02

Compound	Amount (ppbv)	(Area - Blank Area)/ RF * DF
TNMOC (Ref. to Gasolin	320	(14318221.3958596 - 6725147.5565133 / 47642)

Air Toxics Ltd.

List of Selected Compounds

Data File: File Information: p082021.d
Sample #: 2108390-12A
Client ID:
Spike Level: 0
Dilution Factor: 2.02

Compounds	RT	Peak Area	10
Unknown Peak 1.2407	1.241	55740	
Unknown Peak 1.5066	1.507	1167695	
Unknown Peak 1.7304	1.730	21881	
Unknown Peak 2.2395	2.240	22450	
Unknown Peak 2.6406	2.641	63733	
Unknown Peak 2.9773	2.977	34391	
Ethanol	3.257	34179	
Unknown Peak 3.7294	3.729	44752	
Unknown Peak 3.9085	3.909	18879	
Unknown Peak 4.1234	4.123	305379	
Unknown Peak 4.4027	4.403	548672	
Hexane	4.696	4196340	
Unknown Peak 5.3268	5.327	1015205	
Unknown Peak 5.4772	5.477	16969	
Bromochloromethane	5.785	732202	
Unknown Peak 5.8926	5.893	38011	
Cyclohexane	5.964	79849	
Unknown Peak 6.0574	6.057	27055	
Benzene	6.301	6339	
1,2-Dichloroethane-d4	6.315	551305	
Unknown Peak 6.4514	6.451	25401	
1,4-Difluorobenzene	6.666	969602	
Unknown Peak 6.8167	6.817	20792	
Unknown Peak 6.9743	6.974	45290	
Unknown Peak 7.1247	7.125	14470	
Unknown Peak 7.3038	7.304	23586	
Unknown Peak 7.4184	7.418	31183	
Unknown Peak 7.4470	7.447	29612	
Unknown Peak 7.576	7.576	42904	
Unknown Peak 7.7049	7.705	23602	
Toluene-d8	7.891	1210325	
Toluene	7.956	236062	
Unknown Peak 8.0487	8.049	14156	
Unknown Peak 8.1562	8.156	10975	
Unknown Peak 8.2421	8.242	10893	
Unknown Peak 8.3926	8.393	22042	
Unknown Peak 8.6647	8.665	60537	
Unknown Peak 8.9799	8.980	21111	
Unknown Peak 9.1232	9.123	10848	
Chlorobenzene-d5	9.460	1309456	
Ethyl Benzene	9.567	105150	
m,p-Xylene	9.718	309159	
o-Xylene	10.226	105066	
4-Bromofluorobenzene	10.921	1632870	
Unknown Peak 11.150	11.150	21830	
4-Ethyltoluene	11.251	116095	
Unknown Peak 11.365	11.365	35028	
Unknown Peak 11.615	11.616	37177	
1,2,4-Trimethylbenzene	11.817	86216	
Unknown Peak 11.952	11.953	20851	
Unknown Peak 12.074	12.074	14222	
Unknown Peak 12.317	12.318	22545	

Air Toxics Ltd.

List of Selected Compounds

Data File: File Information: p082021.d
Sample #: 2108390-12A
Client ID:
Spike Level: 0
Dilution Factor: 2.02

	Compounds	RT	Peak Area	10
☑	Unknown Peak 12.454	12.454	57846	☐
☑	Unknown Peak 12.597	12.597	22236	☐
☑	Unknown Peak 13.363	13.364	30662	☐
☑	Unknown Peak 13.643	13.643	14258	☐
☑	Unknown Peak 13.800	13.801	16554	☐
☑	Unknown Peak 14.581	14.581	25602	☐

Air Toxics Ltd.

File Results

Data File: File Information: p082023.d
Sample #: 2108390-13A
Client ID:
Spike Level: 0
Dilution Factor: 1.98

Compound	Amount (ppbv)	(Area - Blank Area)/ RF * DF
TNMOC (Ref. to Gasolin	180	(11032098.3640819 - 6725147.5565133 / 47642)

Air Toxics Ltd.

List of Selected Compounds

Data File: File Information: p082023.d
Sample #: 2108390-13A
Client ID:
Spike Level: 0
Dilution Factor: 1.98

Compounds	RT	Peak Area	10
Unknown Peak 1.1567	1.157	191774	
Unknown Peak 1.5065	1.507	13504311	
Unknown Peak 1.7724	1.772	549767	
Unknown Peak 2.2466	2.247	10084	
Unknown Peak 2.6406	2.641	36801	
Unknown Peak 2.9772	2.977	19688	
Ethanol	3.257	25375	
Unknown Peak 3.7293	3.729	28227	
Unknown Peak 3.9084	3.908	15170	
Unknown Peak 4.1233	4.123	175570	
Unknown Peak 4.4027	4.403	322454	
Hexane	4.696	2328978	
Unknown Peak 5.2193	5.219	11175	
Unknown Peak 5.3267	5.327	609705	
Bromochloromethane	5.785	736259	
Unknown Peak 5.8783	5.878	41432	
Cyclohexane	5.957	63736	
Unknown Peak 6.0573	6.057	30126	
1,2-Dichloroethane-d4	6.315	503570	
Unknown Peak 6.4441	6.444	16655	
1,4-Difluorobenzene	6.666	960897	
Unknown Peak 6.8166	6.817	10390	
Unknown Peak 6.9742	6.974	19141	
Unknown Peak 7.1318	7.132	13019	
Unknown Peak 7.3037	7.304	16462	
Unknown Peak 7.4183	7.418	22177	
Unknown Peak 7.447	7.447	18096	
Unknown Peak 7.5759	7.576	36888	
Unknown Peak 7.7048	7.705	16905	
Toluene-d8	7.891	1187815	
Toluene	7.956	156012	
Unknown Peak 8.1561	8.156	12765	
Tetrachloroethene	8.471	166663	
Unknown Peak 8.6647	8.665	46383	
Unknown Peak 8.9799	8.980	16204	
Chlorobenzene-d5	9.460	1284194	
Ethyl Benzene	9.567	78028	
m,p-Xylene	9.718	222796	
o-Xylene	10.226	75741	
Unknown Peak 10.842	10.842	15112	
4-Bromofluorobenzene	10.921	1602941	
Unknown Peak 11.157	11.157	19411	
4-Ethyltoluene	11.258	83945	
Unknown Peak 11.365	11.365	23464	
Unknown Peak 11.615	11.616	24152	
1,2,4-Trimethylbenzene	11.816	64810	
Unknown Peak 11.938	11.938	20126	
Unknown Peak 12.067	12.067	10681	
Unknown Peak 12.246	12.246	13364	
Unknown Peak 12.310	12.311	13950	
Unknown Peak 12.453	12.454	34943	
Unknown Peak 12.948	12.948	13441	

Air Toxics Ltd.

List of Selected Compounds

Data File: File Information: p082023.d
Sample #: 2108390-13A
Client ID:
Spike Level: 0
Dilution Factor: 1.98

	Compounds	RT	Peak Area	10
☑	Unknown Peak 13.378	13.378	23837	☐
☑	Unknown Peak 13.664	13.665	15083	☐
☑	Unknown Peak 13.822	13.822	19601	☐
☑	Unknown Peak 15.483	15.484	14417	☐

Air Toxics Ltd.

File Results

Data File: File Information: p082019.d
Sample #: 2108390-14A
Client ID:
Spike Level: 0
Dilution Factor: 1.94

Compound	Amount (ppbv)	(Area - Blank Area)/ RF * DF
TNMOC (Ref. to Gasolin	470	(18308586.9013257 - 6725147.5565133 / 47642)

Air Toxics Ltd.

List of Selected Compounds

Data File: File Information: p082019.d
Sample #: 2108390-14A
Client ID:
Spike Level: 0
Dilution Factor: 1.94

Compounds	RT	Peak Area	10
Unknown Peak 1.2548	1.255	59546	
Unknown Peak 1.5067	1.507	2062144	
Propylene	1.689	2628799	
1,1-Difluoroethane	1.717	106800	
Unknown Peak 2.0319	2.032	86347	
Unknown Peak 2.2396	2.240	65725	
Unknown Peak 2.6407	2.641	73368	
Unknown Peak 2.9774	2.977	53430	
Ethanol	3.250	80255	
Unknown Peak 3.5289	3.529	11052	
Acetone	3.722	185247	
2-Propanol	3.901	59949	
Unknown Peak 4.1235	4.123	405008	
Unknown Peak 4.3957	4.396	747240	
Hexane	4.697	5061165	
Unknown Peak 4.9186	4.919	14323	
Unknown Peak 5.0905	5.091	16555	
Unknown Peak 5.3268	5.327	1413159	
Unknown Peak 5.4773	5.477	45736	
Unknown Peak 5.5632	5.563	21313	
Bromochloromethane	5.785	811787	
Chloroform	5.835	8915	
Unknown Peak 5.8927	5.893	69911	
Cyclohexane	5.957	155259	
1,1,1-Trichloroethane	5.964	5780	
Unknown Peak 6.0575	6.058	51665	
2,2,4-Trimethylpentane	6.280	23759	
Benzene	6.301	12023	
1,2-Dichloroethane-d4	6.308	601585	
Heptane	6.451	32095	
1,4-Difluorobenzene	6.659	987284	
Unknown Peak 6.8168	6.817	20648	
Trichloroethene	6.867	70200	
Unknown Peak 6.9743	6.974	71141	
Unknown Peak 7.0388	7.039	24880	
Unknown Peak 7.1248	7.125	29100	
Unknown Peak 7.3038	7.304	41832	
Unknown Peak 7.4113	7.411	109987	
Unknown Peak 7.5760	7.576	82151	
Unknown Peak 7.7050	7.705	62040	
Unknown Peak 7.7981	7.798	57961	
Toluene-d8	7.891	1274333	
Toluene	7.956	476191	
Unknown Peak 8.0416	8.042	46357	
Unknown Peak 8.1419	8.142	59094	
Unknown Peak 8.2422	8.242	71266	
Unknown Peak 8.3067	8.307	47978	
Unknown Peak 8.3855	8.386	22080	
Tetrachloroethene	8.464	412128	
Unknown Peak 8.6648	8.665	141383	
Unknown Peak 8.7579	8.758	28969	
Unknown Peak 8.9012	8.901	20947	

List of Selected Compounds

Data File: File Information: p082019.d
Sample #: 2108390-14A
Client ID:
Spike Level: 0
Dilution Factor: 1.94

Compounds	RT	Peak Area	10
Unknown Peak 8.9728	8.973	14347	
Unknown Peak 9.1161	9.116	14811	
Unknown Peak 9.2164	9.216	12212	
Chlorobenzene-d5	9.460	1346028	
Ethyl Benzene	9.567	188047	
m,p-Xylene	9.718	576128	
Unknown Peak 10.068	10.069	23732	
o-Xylene	10.226	186312	
Unknown Peak 10.376	10.377	15728	
Unknown Peak 10.498	10.499	21157	
Unknown Peak 10.598	10.599	59206	
Unknown Peak 10.842	10.842	27490	
4-Bromofluorobenzene	10.921	1697370	
Unknown Peak 11.150	11.150	31899	
4-Ethyltoluene	11.251	205511	
1,3,5-Trimethylbenzene	11.365	53963	
Unknown Peak 11.408	11.408	24382	
Unknown Peak 11.616	11.616	65081	
1,2,4-Trimethylbenzene	11.817	154878	
Unknown Peak 11.945	11.946	52582	
Unknown Peak 12.067	12.067	55692	
Unknown Peak 12.117	12.117	33242	
Unknown Peak 12.246	12.246	27420	
Unknown Peak 12.310	12.311	34147	
Unknown Peak 12.454	12.454	114580	
Unknown Peak 12.604	12.605	16153	
Unknown Peak 12.633	12.633	20613	
Unknown Peak 12.812	12.812	13739	
Unknown Peak 12.912	12.913	13041	
Unknown Peak 12.984	12.984	45906	
Unknown Peak 13.177	13.178	11748	
Unknown Peak 13.363	13.364	73788	
Unknown Peak 13.507	13.507	16360	
Unknown Peak 13.528	13.529	12697	
Unknown Peak 13.643	13.643	35587	
Unknown Peak 13.800	13.801	28055	
Unknown Peak 14.509	14.510	15250	

Air Toxics Ltd.

File Results

Data File: File Information: p082024.d
Sample #: 2108390-15A
Client ID:
Spike Level: 0
Dilution Factor: 2.02

Compound	Amount (ppbv)	(Area - Blank Area)/ RF * DF
TNMOC (Ref. to Gasolin	160	(10491734.3962413 - 6725147.5565133 / 47642)

Air Toxics Ltd.

List of Selected Compounds

Data File: File Information: p082024.d
Sample #: 2108390-15A
Client ID:
Spike Level: 0
Dilution Factor: 2.02

Compounds	RT	Peak Area	10
Unknown Peak 1.2408	1.241	52688	
Unknown Peak 1.5067	1.507	2639848	
1,1-Difluoroethane	1.717	156467	
Freon 12	1.731	7368	
Unknown Peak 1.9124	1.912	50530	
Unknown Peak 2.2396	2.240	56414	
Unknown Peak 2.6407	2.641	29581	
Ethanol	3.250	22810	
Acetone	3.730	83753	
Carbon Disulfide	3.837	41742	
2-Propanol	3.901	57012	
Unknown Peak 4.1235	4.124	141889	
Unknown Peak 4.4028	4.403	289052	
Hexane	4.697	1717974	
Unknown Peak 5.1048	5.105	13415	
Unknown Peak 5.3269	5.327	509562	
Unknown Peak 5.4773	5.477	14000	
Unknown Peak 5.5633	5.563	16613	
Bromochloromethane	5.785	737823	
Unknown Peak 5.8856	5.886	40217	
Cyclohexane	5.964	55786	
Unknown Peak 6.0575	6.058	19828	
1,2-Dichloroethane-d4	6.315	552032	
Unknown Peak 6.4515	6.452	13124	
1,4-Difluorobenzene	6.666	964006	
Unknown Peak 6.8168	6.817	12950	
Trichloroethene	6.867	33054	
Unknown Peak 6.9744	6.974	23242	
Unknown Peak 7.1248	7.125	13116	
Unknown Peak 7.1821	7.182	14002	
Unknown Peak 7.3039	7.304	20459	
Unknown Peak 7.4113	7.411	43804	
Unknown Peak 7.5761	7.576	48963	
Unknown Peak 7.7122	7.712	19958	
Unknown Peak 7.7981	7.798	11503	
Toluene-d8	7.891	1195254	
Toluene	7.956	133714	
Unknown Peak 8.0488	8.049	22881	
Unknown Peak 8.1563	8.156	30184	
Unknown Peak 8.2279	8.228	13581	
Tetrachloroethene	8.471	1072410	
Unknown Peak 8.6648	8.665	79623	
Unknown Peak 8.8941	8.894	15526	
Unknown Peak 8.9729	8.973	13586	
Unknown Peak 9.2236	9.224	20897	
Chlorobenzene-d5	9.460	1304437	
Ethyl Benzene	9.567	68414	
m,p-Xylene	9.718	191269	
Unknown Peak 9.8682	9.868	33890	
o-Xylene	10.226	72788	
Unknown Peak 10.763	10.764	20055	
4-Bromofluorobenzene	10.921	1596814	

Air Toxics Ltd.

List of Selected Compounds

Data File: File Information: p082024.d
Sample #: 2108390-15A
Client ID:
Spike Level: 0
Dilution Factor: 2.02

Compounds	RT	Peak Area	10
Unknown Peak 11.150	11.150	33577	
4-Ethyltoluene	11.258	89472	
Unknown Peak 11.365	11.365	35128	
Unknown Peak 11.616	11.616	27424	
1,2,4-Trimethylbenzene	11.817	60874	
Unknown Peak 11.945	11.946	29782	
Unknown Peak 12.067	12.067	10786	
Unknown Peak 12.239	12.239	10856	
Unknown Peak 12.318	12.318	15549	
Unknown Peak 12.454	12.454	42099	
Unknown Peak 13.005	13.006	12865	
Unknown Peak 13.363	13.364	38246	
Unknown Peak 13.643	13.643	12599	
Unknown Peak 13.800	13.801	17681	
Unknown Peak 14.517	14.517	10162	

Air Toxics Ltd.

File Results

Data File: File Information: p082025.d
Sample #: 2108390-16A
Client ID:
Spike Level: 0
Dilution Factor: 2.14

Compound	Amount (ppbv)	(Area - Blank Area)/ RF * DF
TNMOC (Ref. to Gasolin	120	(9522023.71486853 - 6725147.5565133 / 47642)

Air Toxics Ltd.

List of Selected Compounds

Data File: File Information: p082025.d
Sample #: 2108390-16A
Client ID:
Spike Level: 0
Dilution Factor: 2.14

Compounds	RT	Peak Area	10
Unknown Peak 1.2408	1.241	42331	
Unknown Peak 1.5067	1.507	1729037	
Freon 12	1.731	92405	
Unknown Peak 2.2396	2.240	14831	
Unknown Peak 2.6407	2.641	26735	
Ethanol	3.250	34083	
Unknown Peak 3.7367	3.737	44337	
2-Propanol	3.909	52617	
Unknown Peak 4.1235	4.124	124283	
Unknown Peak 4.4028	4.403	243233	
Hexane	4.704	1498424	
Unknown Peak 5.3269	5.327	438098	
Unknown Peak 5.4773	5.477	24133	
Bromochloromethane	5.785	732050	
Unknown Peak 5.9644	5.964	33691	
Unknown Peak 6.0575	6.058	11997	
1,2-Dichloroethane-d4	6.315	495976	
1,4-Difluorobenzene	6.666	959936	
Unknown Peak 6.8168	6.817	16992	
Unknown Peak 6.9744	6.974	28111	
Unknown Peak 7.3039	7.304	18155	
Unknown Peak 7.4113	7.411	34741	
Unknown Peak 7.5832	7.583	32854	
Unknown Peak 7.7122	7.712	11873	
Toluene-d8	7.891	1181008	
Toluene	7.956	90513	
Unknown Peak 8.0488	8.049	13227	
Unknown Peak 8.1491	8.149	14346	
Tetrachloroethene	8.471	519926	
Unknown Peak 8.6648	8.665	55057	
Unknown Peak 9.1089	9.109	10868	
Chlorobenzene-d5	9.460	1299994	
Ethyl Benzene	9.567	63471	
m,p-Xylene	9.718	158713	
o-Xylene	10.226	60010	
Unknown Peak 10.756	10.756	11948	
4-Bromofluorobenzene	10.921	1574458	
Unknown Peak 11.150	11.150	13664	
4-Ethyltoluene	11.258	68232	
Unknown Peak 11.365	11.365	11468	
Unknown Peak 11.616	11.616	23364	
1,2,4-Trimethylbenzene	11.817	63163	
Unknown Peak 11.952	11.953	13757	
Unknown Peak 12.081	12.082	12896	
Unknown Peak 12.318	12.318	17978	
Unknown Peak 12.454	12.454	51928	
Unknown Peak 12.819	12.819	19333	
Unknown Peak 13.363	13.364	28554	
Unknown Peak 13.521	13.521	12391	
Unknown Peak 13.643	13.643	17058	
Unknown Peak 13.800	13.801	19362	

Air Toxics Ltd.

File Results

Data File: File Information: p082027.d
Sample #: 2108390-17A
Client ID:
Spike Level: 0
Dilution Factor: 2.06

Compound	Amount (ppbv)	(Area - Blank Area)/ RF * DF
TNMOC (Ref. to Gasolin	140	(10054374.8092988 - 6725147.5565133 / 47642)

Air Toxics Ltd.

List of Selected Compounds

Data File: File Information: p082027.d
Sample #: 2108390-17A
Client ID:
Spike Level: 0
Dilution Factor: 2.06

Compounds	RT	Peak Area	10
Unknown Peak 1.2268	1.227	55415	
Unknown Peak 1.4926	1.493	2762549	
Freon 12	1.703	197138	
Unknown Peak 2.0246	2.025	29845	
Unknown Peak 2.2252	2.225	28891	
Unknown Peak 2.6120	2.612	14995	
Ethanol	3.250	22291	
Unknown Peak 3.7151	3.715	60024	
Unknown Peak 3.8154	3.815	36723	
2-Propanol	3.894	38144	
Unknown Peak 4.1091	4.109	87051	
Unknown Peak 4.3884	4.388	178578	
Hexane	4.689	1098650	
Unknown Peak 5.3196	5.320	301423	
Unknown Peak 5.4700	5.470	22655	
Bromochloromethane	5.785	684028	
Chloroform	5.835	705022	
Unknown Peak 5.9571	5.957	42552	
Unknown Peak 6.0574	6.057	15434	
1,2-Dichloroethane-d4	6.308	552167	
1,4-Difluorobenzene	6.659	943156	
Unknown Peak 6.8167	6.817	13856	
Unknown Peak 6.9743	6.974	11437	
Unknown Peak 7.0316	7.032	11427	
Unknown Peak 7.1247	7.125	11813	
Bromodichloromethane	7.318	57126	
Unknown Peak 7.4041	7.404	54717	
Unknown Peak 7.5760	7.576	28558	
Unknown Peak 7.7049	7.705	16819	
Unknown Peak 7.7980	7.798	13203	
Toluene-d8	7.891	1163299	
Toluene	7.949	115736	
Unknown Peak 8.0487	8.049	26679	
Unknown Peak 8.1490	8.149	24972	
Unknown Peak 8.2350	8.235	12825	
Tetrachloroethene	8.464	1180951	
Unknown Peak 8.6648	8.665	47756	
Chlorobenzene-d5	9.460	1282349	
Ethyl Benzene	9.567	58773	
m,p-Xylene	9.718	150789	
o-Xylene	10.226	64753	
Unknown Peak 10.369	10.370	10637	
Unknown Peak 10.498	10.499	11194	
Unknown Peak 10.605	10.606	18574	
Unknown Peak 10.656	10.656	17183	
Unknown Peak 10.734	10.735	20089	
4-Bromofluorobenzene	10.921	1637529	
Unknown Peak 11.150	11.150	58132	
4-Ethyltoluene	11.265	96816	
Unknown Peak 11.365	11.365	12334	
Unknown Peak 11.623	11.623	31614	
1,2,4-Trimethylbenzene	11.817	54231	

Air Toxics Ltd.

List of Selected Compounds

Data File: File Information: p082027.d
Sample #: 2108390-17A
Client ID:
Spike Level: 0
Dilution Factor: 2.06

Compounds	RT	Peak Area	10
Unknown Peak 11.952	11.953	63360	
Unknown Peak 12.074	12.074	19950	
Unknown Peak 12.110	12.110	29230	
Unknown Peak 12.239	12.239	20130	
Unknown Peak 12.317	12.318	15286	
Unknown Peak 12.454	12.454	145438	
Unknown Peak 12.554	12.554	45183	
Unknown Peak 12.633	12.633	61509	
Unknown Peak 12.690	12.690	18057	
Unknown Peak 12.819	12.819	20010	
Unknown Peak 13.012	13.013	46913	
Unknown Peak 13.177	13.178	28028	
Unknown Peak 13.313	13.314	14685	
Unknown Peak 13.363	13.364	54737	
Unknown Peak 13.464	13.464	17139	
Unknown Peak 13.521	13.521	22667	
Unknown Peak 13.643	13.643	36348	
Unknown Peak 13.800	13.801	63668	
Unknown Peak 13.958	13.958	30964	
Unknown Peak 13.986	13.987	20227	
Unknown Peak 14.373	14.374	32606	
Unknown Peak 14.509	14.510	51855	
Unknown Peak 14.610	14.610	27862	
Unknown Peak 14.739	14.739	56109	
Unknown Peak 14.760	14.761	39570	
Unknown Peak 14.910	14.911	45102	
Unknown Peak 15.154	15.155	21199	
Unknown Peak 15.254	15.255	21995	
Unknown Peak 15.469	15.470	111805	
Unknown Peak 15.562	15.563	15420	

Air Toxics Ltd.

File Results

Data File: File Information: p082028.d
Sample #: 2108390-18A
Client ID:
Spike Level: 0
Dilution Factor: 2.02

Compound	Amount (ppbv)	(Area - Blank Area)/ RF * DF
TNMOC (Ref. to Gasolin	82	(8650619.07821094 - 6725147.5565133 / 47642)

Air Toxics Ltd.

List of Selected Compounds

Data File: File Information: p082028.d
Sample #: 2108390-18A
Client ID:
Spike Level: 0
Dilution Factor: 2.02

Compounds	RT	Peak Area	10
Unknown Peak 1.2546	1.255	59263	
Unknown Peak 1.5064	1.506	1475468	
Freon 12	1.730	66305	
Unknown Peak 1.9542	1.954	17325	
Unknown Peak 2.2465	2.247	26445	
Unknown Peak 2.6405	2.641	11186	
Ethanol	3.271	28930	
Unknown Peak 3.7364	3.736	51226	
Unknown Peak 3.9012	3.901	15841	
Unknown Peak 4.1232	4.123	94251	
Unknown Peak 4.4026	4.403	186556	
Hexane	4.696	971747	
Unknown Peak 5.0974	5.097	10050	
Unknown Peak 5.3266	5.327	335917	
Unknown Peak 5.4771	5.477	15165	
Bromochloromethane	5.785	717587	
Unknown Peak 5.9641	5.964	34850	
Unknown Peak 6.0573	6.057	16806	
1,2-Dichloroethane-d4	6.315	509456	
Unknown Peak 6.4512	6.451	11849	
1,4-Difluorobenzene	6.666	952451	
Unknown Peak 6.8165	6.817	12878	
Unknown Peak 6.9741	6.974	20216	
Unknown Peak 7.1246	7.125	10048	
Unknown Peak 7.3036	7.304	22332	
Unknown Peak 7.4111	7.411	34486	
Unknown Peak 7.5758	7.576	32304	
Unknown Peak 7.7119	7.712	17799	
Unknown Peak 7.7979	7.798	11536	
Toluene-d8	7.891	1158132	
Toluene	7.956	113967	
Unknown Peak 8.0486	8.049	19544	
Unknown Peak 8.1560	8.156	29036	
Unknown Peak 8.2348	8.235	12187	
Unknown Peak 8.3494	8.349	19981	
Tetrachloroethene	8.471	428147	
Unknown Peak 8.6646	8.665	55488	
Unknown Peak 8.9798	8.980	12812	
Chlorobenzene-d5	9.460	1277639	
Ethyl Benzene	9.567	52938	
m,p-Xylene	9.718	120315	
o-Xylene	10.233	49495	
4-Bromofluorobenzene	10.921	1582224	
Unknown Peak 11.257	11.258	49457	
Unknown Peak 11.615	11.616	11675	
Unknown Peak 11.816	11.816	42761	
Unknown Peak 11.938	11.938	17702	
Unknown Peak 12.246	12.246	13780	
Unknown Peak 12.453	12.454	34253	
Unknown Peak 13.363	13.364	23160	
Unknown Peak 13.642	13.643	13747	
Unknown Peak 13.800	13.801	23261	

Air Toxics Ltd.

List of Selected Compounds

Data File: File Information: p082028.d
Sample #: 2108390-18A
Client ID:
Spike Level: 0
Dilution Factor: 2.02

	Compounds	RT	Peak Area	10
☑	Unknown Peak 13.965	13.965	11477	☐
☑	Unknown Peak 15.469	15.470	11918	☐

Air Toxics Ltd.

File Results

Data File: File Information: p082029.d
Sample #: 2108390-19A
Client ID:
Spike Level: 0
Dilution Factor: 2.1

Compound	Amount (ppbv)	(Area - Blank Area)/ RF * DF
TNMOC (Ref. to Gasolin	64	(8185967.32033578 - 6725147.5565133 / 47642)

Air Toxics Ltd.

List of Selected Compounds

Data File: File Information: p082029.d
Sample #: 2108390-19A
Client ID:
Spike Level: 0
Dilution Factor: 2.1

	Compounds	RT	Peak Area	10
☐	Unknown Peak 1.2406	1.241	52534	☐
☐	Unknown Peak 1.5064	1.506	4321489	☐
☐	Freon 12	1.730	264707	☐
☐	Unknown Peak 2.2537	2.254	21269	☐
☐	Ethanol	3.257	36889	☐
☐	Unknown Peak 3.7293	3.729	34194	☐
☐	Unknown Peak 3.8367	3.837	34075	☐
☐	Unknown Peak 3.9012	3.901	25774	☐
☑	Unknown Peak 4.1232	4.123	87501	☐
☑	Unknown Peak 4.4026	4.403	164422	☐
☑	Hexane	4.696	811592	☐
☑	Unknown Peak 5.0974	5.097	11519	☐
☑	Unknown Peak 5.3266	5.327	284410	☐
☑	Unknown Peak 5.4771	5.477	15112	☐
☑	Bromochloromethane	5.785	729896	☐
☑	Unknown Peak 5.9641	5.964	27394	☐
☑	Unknown Peak 6.0573	6.057	17417	☐
☑	1,2-Dichloroethane-d4	6.315	490133	☐
☑	Unknown Peak 6.5157	6.516	18416	☐
☑	1,4-Difluorobenzene	6.666	955187	☐
☐	Unknown Peak 6.8165	6.817	23500	☐
☑	Unknown Peak 6.9741	6.974	11225	☐
☑	Unknown Peak 7.3036	7.304	14170	☐
☑	Unknown Peak 7.4111	7.411	22026	☐
☐	Unknown Peak 7.5758	7.576	24644	☐
☑	Unknown Peak 7.7048	7.705	12695	☐
☑	Unknown Peak 7.7979	7.798	16460	☐
☑	Toluene-d8	7.891	1161111	☐
☑	Toluene	7.956	54694	☐
☑	Unknown Peak 8.1489	8.149	11777	☐
☐	Tetrachloroethene	8.471	1166563	☐
☐	Unknown Peak 8.6646	8.665	47738	☐
☑	Chlorobenzene-d5	9.460	1275547	☐
☑	Unknown Peak 9.5743	9.574	42097	☐
☑	m,p-Xylene	9.718	87988	☐
☑	o-Xylene	10.226	36759	☐
☑	Unknown Peak 10.577	10.577	12472	☐
☑	Unknown Peak 10.842	10.842	13808	☐
☑	4-Bromofluorobenzene	10.921	1577897	☐
☑	Unknown Peak 11.150	11.150	12373	☐
☑	Unknown Peak 11.257	11.258	54036	☐
☑	Unknown Peak 11.365	11.365	21009	☐
☑	Unknown Peak 11.615	11.616	12964	☐
☑	Unknown Peak 11.816	11.816	37571	☐
☑	Unknown Peak 11.945	11.945	22338	☐
☐	Unknown Peak 12.461	12.461	35466	☐
☑	Unknown Peak 13.385	13.385	21302	☐
☑	Unknown Peak 13.664	13.664	12108	☐
☑	Unknown Peak 13.779	13.779	28541	☐

Air Toxics Ltd.

File Results

Data File: File Information: p082110.d
Sample #: 2108390-20A
Client ID:
Spike Level: 0
Dilution Factor: 2.06

Compound	Amount (ppbv)	(Area - Blank Area)/ RF * DF
TNMOC (Ref. to Gasolin	74	(7905117.15799388 - 6337571.80473585 / 43591

Air Toxics Ltd.

List of Selected Compounds

Data File: File Information: p082110.d
Sample #: 2108390-20A
Client ID:
Spike Level: 0
Dilution Factor: 2.06

Compounds	RT	Peak Area	10
Unknown Peak 1.2548	1.255	55109	
Unknown Peak 1.5067	1.507	456277	
Unknown Peak 2.2396	2.240	28121	
Unknown Peak 2.6335	2.634	15740	
Unknown Peak 3.2639	3.264	17008	
Unknown Peak 3.7295	3.730	48076	
Unknown Peak 3.9014	3.901	24186	
Unknown Peak 4.1235	4.123	54354	
Unknown Peak 4.3957	4.396	99126	
Hexane	4.697	503815	
Unknown Peak 5.3268	5.327	148425	
Unknown Peak 5.4773	5.477	44854	
Bromochloromethane	5.785	699217	
Unknown Peak 5.9715	5.972	19692	
Unknown Peak 6.0575	6.058	12251	
1,2-Dichloroethane-d4	6.315	475959	
1,4-Difluorobenzene	6.666	962706	
Unknown Peak 6.8168	6.817	17058	
Unknown Peak 7.3038	7.304	10565	
Unknown Peak 7.5760	7.576	30852	
Toluene-d8	7.891	1189402	
Unknown Peak 8.0488	8.049	10286	
Unknown Peak 8.1562	8.156	53540	
Unknown Peak 8.3855	8.386	16136	
Tetrachloroethene	8.464	44322	
Unknown Peak 8.6648	8.665	25131	
Chlorobenzene-d5	9.460	1287968	
Unknown Peak 9.5674	9.567	26205	
m,p-Xylene	9.718	48251	
Unknown Peak 10.226	10.226	18684	
Unknown Peak 10.849	10.850	1251921	
4-Bromofluorobenzene	10.921	2009993	
Unknown Peak 11.257	11.258	45122	
Unknown Peak 11.623	11.623	15796	
Unknown Peak 11.816	11.817	23512	
Unknown Peak 11.938	11.938	11273	
Unknown Peak 12.067	12.067	11348	
Unknown Peak 12.246	12.246	12573	
Unknown Peak 12.454	12.454	32401	
Unknown Peak 12.640	12.640	14740	
Unknown Peak 12.984	12.984	84061	
Unknown Peak 13.363	13.364	24738	
Unknown Peak 13.643	13.643	10062	
Unknown Peak 13.965	13.966	10959	
Unknown Peak 14.911	14.911	15854	

Air Toxics Ltd.

File Results

Data File: File Information: p082109.d
Sample #: 2108390-21A
Client ID:
Spike Level: 0
Dilution Factor: 2.06

Compound	Amount (ppbv)	(Area - Blank Area)/ RF * DF
TNMOC (Ref. to Gasolin	69	(7791800.87408457 - 6337571.80473585 / 43591

Air Toxics Ltd.

List of Selected Compounds

Data File: File Information: p082109.d
Sample #: 2108390-21A
Client ID:
Spike Level: 0
Dilution Factor: 2.06

Compounds	RT	Peak Area	10
Unknown Peak 1.2547	1.255	59008	
Unknown Peak 1.5066	1.507	461440	
Unknown Peak 2.2395	2.240	21845	
Unknown Peak 3.2638	3.264	12770	
Unknown Peak 3.7294	3.729	24084	
Unknown Peak 3.9013	3.901	14349	
Unknown Peak 4.1162	4.116	35308	
Unknown Peak 4.3956	4.396	63764	
Hexane	4.696	366403	
Unknown Peak 5.3196	5.320	124951	
Unknown Peak 5.4772	5.477	40809	
Bromochloromethane	5.785	715979	
Unknown Peak 5.9643	5.964	11047	
1,2-Dichloroethane-d4	6.315	493381	
1,4-Difluorobenzene	6.659	967374	
Unknown Peak 6.8167	6.817	14210	
Unknown Peak 7.4040	7.404	12200	
Unknown Peak 7.576	7.576	38191	
Toluene-d8	7.891	1215237	
Unknown Peak 8.1562	8.156	122351	
Unknown Peak 8.235	8.235	45185	
Unknown Peak 8.2923	8.292	54992	
Unknown Peak 8.3782	8.378	23017	
Tetrachloroethene	8.471	43107	
Unknown Peak 8.6719	8.672	25978	
Chlorobenzene-d5	9.460	1315991	
Unknown Peak 9.5673	9.567	20892	
m,p-Xylene	9.718	43245	
Unknown Peak 10.226	10.226	16392	
Unknown Peak 10.849	10.850	1273249	
4-Bromofluorobenzene	10.921	2038343	
Unknown Peak 11.150	11.150	14153	
Unknown Peak 11.257	11.258	59888	
Unknown Peak 11.623	11.623	10271	
Unknown Peak 11.816	11.817	23435	
Unknown Peak 12.067	12.067	10410	
Unknown Peak 12.246	12.246	12011	
Unknown Peak 12.461	12.461	24066	
Unknown Peak 12.647	12.647	17058	
Unknown Peak 12.998	12.998	75832	
Unknown Peak 13.378	13.378	17529	
Unknown Peak 14.946	14.947	12296	

Air Toxics Ltd.

File Results

Data File: File Information: p082111.d
Sample #: 2108390-22A
Client ID:
Spike Level: 0
Dilution Factor: 2.02

Compound	Amount (ppbv)	(Area - Blank Area)/ RF * DF
TNMOC (Ref. to Gasolin	130	(9246741.86489549 - 6337571.80473585 / 43591

Air Toxics Ltd.

List of Selected Compounds

Data File: File Information: p082111.d
Sample #: 2108390-22A
Client ID:
Spike Level: 0
Dilution Factor: 2.02

Compounds	RT	Peak Area	10
Unknown Peak 1.2546	1.255	46548	
Unknown Peak 1.5065	1.507	274807	
Propylene	1.688	52720	
Unknown Peak 2.0317	2.032	90800	
Unknown Peak 2.2394	2.239	34347	
Unknown Peak 2.6406	2.641	22425	
Unknown Peak 2.9056	2.906	14210	
Unknown Peak 2.9629	2.963	31402	
Ethanol	3.257	30794	
Unknown Peak 3.7293	3.729	64255	
Unknown Peak 3.9012	3.901	18436	
Unknown Peak 4.1233	4.123	72084	
Unknown Peak 4.4027	4.403	154830	
Hexane	4.704	666477	
Unknown Peak 5.0831	5.083	13146	
Unknown Peak 5.3267	5.327	239497	
Unknown Peak 5.4771	5.477	128039	
Unknown Peak 5.5631	5.563	26113	
Bromochloromethane	5.785	705676	
Unknown Peak 5.9642	5.964	39045	
Unknown Peak 6.1146	6.115	94682	
1,2-Dichloroethane-d4	6.315	510825	
1,4-Difluorobenzene	6.666	950131	
Unknown Peak 6.8166	6.817	23832	
Unknown Peak 6.9742	6.974	31817	
Unknown Peak 7.0387	7.039	12857	
Unknown Peak 7.1318	7.132	15700	
Unknown Peak 7.3037	7.304	21532	
Unknown Peak 7.4111	7.411	44827	
Unknown Peak 7.5759	7.576	39430	
Unknown Peak 7.7263	7.726	17882	
Unknown Peak 7.7979	7.798	11119	
Toluene-d8	7.891	1183752	
Toluene	7.956	63110	
Unknown Peak 8.1489	8.149	94194	
Unknown Peak 8.2492	8.249	14952	
Unknown Peak 8.3710	8.371	22718	
Tetrachloroethene	8.471	259877	
Unknown Peak 8.6647	8.665	68317	
Unknown Peak 8.9727	8.973	11797	
Chlorobenzene-d5	9.460	1294089	
Unknown Peak 9.5672	9.567	56003	
m,p-Xylene	9.718	125308	
Unknown Peak 10.082	10.083	14919	
o-Xylene	10.233	60210	
Unknown Peak 10.362	10.362	11451	
Unknown Peak 10.505	10.506	13967	
Unknown Peak 10.849	10.849	220328	
4-Bromofluorobenzene	10.921	1721350	
Unknown Peak 10.999	11.000	34818	
Unknown Peak 11.150	11.150	23991	
4-Ethyltoluene	11.251	158525	

Air Toxics Ltd.

List of Selected Compounds

Data File: File Information: p082111.d
Sample #: 2108390-22A
Client ID:
Spike Level: 0
Dilution Factor: 2.02

	Compounds	RT	Peak Area	10
☑	Unknown Peak 11.358	11.358	50316	☐
☑	Unknown Peak 11.608	11.609	66663	☐
☑	1,2,4-Trimethylbenzene	11.816	92462	☐
☑	Unknown Peak 11.938	11.938	24646	☐
☑	Unknown Peak 12.002	12.003	20296	☐
☑	Unknown Peak 12.074	12.074	24086	☐
☑	Unknown Peak 12.174	12.175	12136	☐
☑	Unknown Peak 12.239	12.239	10369	☐
☑	Unknown Peak 12.317	12.318	34087	☐
☐	Unknown Peak 12.453	12.454	101520	☐
☐	Unknown Peak 12.640	12.640	142535	☐
☑	Unknown Peak 12.804	12.805	10487	☐
☑	Unknown Peak 12.905	12.905	24572	☐
☐	Unknown Peak 12.991	12.991	112555	☐
☑	Unknown Peak 13.170	13.170	18973	☐
☑	Unknown Peak 13.313	13.314	20270	☐
☑	Unknown Peak 13.363	13.364	70518	☐
☑	Unknown Peak 13.456	13.457	14178	☐
☑	Unknown Peak 13.521	13.521	35700	☐
☑	Unknown Peak 13.643	13.643	29409	☐
☑	Unknown Peak 13.800	13.801	23833	☐
☑	Unknown Peak 13.958	13.958	16802	☐
☑	Unknown Peak 14.516	14.517	19732	☐
☑	Unknown Peak 14.910	14.911	28863	☐

Air Toxics Ltd.

File Results

Data File: File Information: p082112.d
Sample #: 2108390-23A
Client ID:
Spike Level: 0
Dilution Factor: 2.06

Compound	Amount (ppbv)	(Area - Blank Area)/ RF * DF
TNMOC (Ref. to Gasolin	51	(7414873.41123566 - 6337571.80473585 / 43591

Air Toxics Ltd.

List of Selected Compounds

Data File: File Information: p082112.d
Sample #: 2108390-23A
Client ID:
Spike Level: 0
Dilution Factor: 2.06

	Compounds	RT	Peak Area	10
☐	Unknown Peak 1.2546	1.255	52624	☐
☐	Unknown Peak 1.5064	1.506	744222	☐
☐	Unknown Peak 1.7583	1.758	31598	☐
☐	Unknown Peak 2.2537	2.254	19670	☐
☑	Unknown Peak 3.2565	3.257	22577	☐
☐	Unknown Peak 3.7293	3.729	41099	☐
☐	Unknown Peak 3.9083	3.908	25670	☐
☑	Unknown Peak 4.1161	4.116	34263	☐
☑	Unknown Peak 4.4026	4.403	69206	☐
☑	Hexane	4.696	328551	☐
☑	Unknown Peak 5.3266	5.327	129510	☐
☐	Unknown Peak 5.4770	5.477	31229	☐
☑	Bromochloromethane	5.785	713486	☐
☑	Unknown Peak 5.9641	5.964	16395	☐
☑	1,2-Dichloroethane-d4	6.315	465533	☐
☑	1,4-Difluorobenzene	6.666	944082	☐
☑	Unknown Peak 6.8165	6.817	18175	☐
☐	Unknown Peak 7.5758	7.576	30640	☐
☑	Toluene-d8	7.891	1203376	☐
☑	Unknown Peak 8.0486	8.049	28545	☐
☐	Unknown Peak 8.1560	8.156	394635	☐
☑	Unknown Peak 8.6646	8.665	30105	☐
☑	Chlorobenzene-d5	9.460	1268460	☐
☑	Unknown Peak 9.5671	9.567	25730	☐
☑	m,p-Xylene	9.710	47206	☐
☑	Unknown Peak 10.226	10.226	18611	☐
☐	Unknown Peak 10.849	10.849	1059919	☐
☑	4-Bromofluorobenzene	10.921	1932696	☐
☑	Unknown Peak 11.257	11.258	31069	☐
☑	Unknown Peak 11.816	11.816	14519	☐
☑	Unknown Peak 12.246	12.246	10717	☐
☑	Unknown Peak 12.453	12.454	35795	☐
☑	Unknown Peak 12.640	12.640	15936	☐
☐	Unknown Peak 12.983	12.984	42892	☐
☑	Unknown Peak 13.363	13.364	10329	☐

Air Toxics Ltd.

File Results

Data File: File Information: p082113.d
Sample #: 2108390-24A
Client ID:
Spike Level: 0
Dilution Factor: 2.14

Compound	Amount (ppbv)	(Area - Blank Area)/ RF * DF
TNMOC (Ref. to Gasolin	120	(8855024.53656307 - 6337571.80473585 / 43591

Air Toxics Ltd.

List of Selected Compounds

Data File: File Information: p082113.d
Sample #: 2108390-24A
Client ID:
Spike Level: 0
Dilution Factor: 2.14

Compounds	RT	Peak Area	10
Unknown Peak 1.2546	1.255	47158	
Unknown Peak 1.5064	1.506	815155	
Unknown Peak 1.7723	1.772	53601	
Unknown Peak 2.2465	2.247	21953	
Unknown Peak 2.6333	2.633	23398	
Ethanol	3.264	33173	
Unknown Peak 3.7293	3.729	60878	
2-Propanol	3.901	98371	
Unknown Peak 4.1232	4.123	64828	
Unknown Peak 4.4026	4.403	120505	
Hexane	4.696	486506	
Unknown Peak 5.3266	5.327	202538	
Unknown Peak 5.4770	5.477	39747	
Unknown Peak 5.5630	5.563	16671	
Tetrahydrofuran	5.785	5693	
Bromochloromethane	5.785	712022	
Unknown Peak 5.9641	5.964	30281	
1,2-Dichloroethane-d4	6.315	475716	
1,4-Difluorobenzene	6.666	950957	
Unknown Peak 6.8165	6.817	29396	
Unknown Peak 6.8667	6.867	18328	
Unknown Peak 7.3036	7.304	12695	
Unknown Peak 7.4111	7.411	29992	
Unknown Peak 7.5758	7.576	37423	
Unknown Peak 7.7191	7.719	11530	
Toluene-d8	7.891	1866507	
Toluene	7.955	8964	
Unknown Peak 8.1560	8.156	164884	
Unknown Peak 8.3279	8.328	97607	
Tetrachloroethene	8.464	1110152	
Unknown Peak 8.6646	8.665	26167	
Unknown Peak 8.6932	8.693	21594	
Chlorobenzene-d5	9.460	1291813	
Unknown Peak 9.5600	9.560	30970	
m,p-Xylene	9.710	59352	
Unknown Peak 10.226	10.226	24521	
Unknown Peak 10.505	10.506	13891	
Unknown Peak 10.849	10.849	974431	
4-Bromofluorobenzene	10.921	1964633	
Unknown Peak 11.150	11.150	10674	
Unknown Peak 11.257	11.258	35539	
Unknown Peak 11.809	11.809	23175	
Unknown Peak 11.938	11.938	13264	
Unknown Peak 12.253	12.253	11301	
Unknown Peak 12.453	12.454	42767	
Unknown Peak 12.640	12.640	14685	
Unknown Peak 12.776	12.776	40308	
Unknown Peak 12.983	12.984	98011	
Unknown Peak 13.363	13.364	24934	
Unknown Peak 13.642	13.643	15627	
Unknown Peak 13.800	13.801	25272	
Unknown Peak 14.910	14.911	29594	

Air Toxics Ltd.

File Results

Data File: File Information: p082114.d
Sample #: 2108390-25A
Client ID:
Spike Level: 0
Dilution Factor: 2.06

Compound	Amount (ppbv)	(Area - Blank Area)/ RF * DF
TNMOC (Ref. to Gasolin	50	(7395504.86096124 - 6337571.80473585 / 43591

Air Toxics Ltd.

List of Selected Compounds

Data File: File Information: p082114.d
Sample #: 2108390-25A
Client ID:
Spike Level: 0
Dilution Factor: 2.06

Compounds	RT	Peak Area	10
Unknown Peak 1.5067	1.507	12553856	
Unknown Peak 1.7585	1.759	127102	
Unknown Peak 3.2496	3.250	19765	
Unknown Peak 3.7295	3.730	41682	
2-Propanol	3.909	40375	
Unknown Peak 4.1235	4.123	41485	
Unknown Peak 4.4028	4.403	98516	
Hexane	4.697	371909	
Unknown Peak 5.3269	5.327	157201	
Unknown Peak 5.4773	5.477	18721	
Bromochloromethane	5.785	718557	
Unknown Peak 5.9644	5.964	21008	
1,2-Dichloroethane-d4	6.315	474558	
1,4-Difluorobenzene	6.666	939379	
Unknown Peak 6.8311	6.831	41472	
Unknown Peak 7.4113	7.411	14160	
Unknown Peak 7.5832	7.583	26547	
Toluene-d8	7.891	1172228	
Unknown Peak 8.0488	8.049	22124	
Unknown Peak 8.1563	8.156	20887	
Tetrachloroethene	8.471	292176	
Unknown Peak 8.6648	8.665	36945	
Chlorobenzene-d5	9.460	1273530	
Unknown Peak 9.5674	9.567	26542	
m,p-Xylene	9.718	56883	
Unknown Peak 10.226	10.226	22750	
4-Bromofluorobenzene	10.921	1633768	
Unknown Peak 11.150	11.150	11630	
Unknown Peak 11.257	11.258	32330	
Unknown Peak 11.623	11.623	10580	
Unknown Peak 11.816	11.817	25355	
Unknown Peak 11.945	11.946	10725	
Unknown Peak 11.974	11.974	14227	
Unknown Peak 12.081	12.082	17224	
Unknown Peak 12.246	12.246	16057	
Unknown Peak 12.454	12.454	48057	
Unknown Peak 12.640	12.640	16446	
Unknown Peak 12.984	12.984	22289	
Unknown Peak 13.363	13.364	21969	
Unknown Peak 13.499	13.500	10738	
Unknown Peak 13.643	13.643	15385	
Unknown Peak 13.800	13.801	18323	

Air Toxics Ltd.

File Results

Data File: File Information: p082115.d
Sample #: 2108390-26A
Client ID:
Spike Level: 0
Dilution Factor: 2.1

Compound	Amount (ppbv)	(Area - Blank Area)/ RF * DF
TNMOC (Ref. to Gasolin	120	(8833829.61404226 - 6337571.80473585 / 43591

Air Toxics Ltd.

List of Selected Compounds

Data File: File Information: p082115.d
Sample #: 2108390-26A
Client ID:
Spike Level: 0
Dilution Factor: 2.1

Compounds	RT	Peak Area	10
Unknown Peak 1.2546	1.255	52233	
Unknown Peak 1.5064	1.506	690826	
Unknown Peak 1.5904	1.590	103131	
Unknown Peak 2.2465	2.247	29392	
Unknown Peak 2.6333	2.633	12755	
Ethanol	3.257	50661	
Unknown Peak 3.7293	3.729	47549	
Carbon Disulfide	3.837	90864	
2-Propanol	3.908	83952	
Unknown Peak 4.1232	4.123	77832	
Unknown Peak 4.4026	4.403	148452	
Hexane	4.696	774181	
Unknown Peak 5.0974	5.097	12113	
Unknown Peak 5.3266	5.327	247815	
Unknown Peak 5.4770	5.477	230139	
Bromochloromethane	5.785	711940	
Unknown Peak 5.9641	5.964	33298	
1,2-Dichloroethane-d4	6.315	487955	
1,4-Difluorobenzene	6.666	943826	
Unknown Peak 6.8165	6.817	20429	
Unknown Peak 6.9956	6.996	24859	
Unknown Peak 7.1317	7.132	10487	
Unknown Peak 7.3036	7.304	18713	
Unknown Peak 7.4111	7.411	17204	
Unknown Peak 7.5758	7.576	31315	
Unknown Peak 7.7119	7.712	12480	
Toluene-d8	7.891	1188752	
Toluene	7.955	10886	
Unknown Peak 8.0486	8.049	16869	
Unknown Peak 8.1560	8.156	62249	
Unknown Peak 8.3781	8.378	17118	
Tetrachloroethene	8.471	97808	
Unknown Peak 8.6646	8.665	70277	
Chlorobenzene-d5	9.460	1271475	
Unknown Peak 9.5671	9.567	31832	
m,p-Xylene	9.718	72437	
Unknown Peak 10.233	10.233	35758	
Unknown Peak 10.763	10.763	31936	
Unknown Peak 10.849	10.849	2783864	
4-Bromofluorobenzene	10.921	2269280	
Unknown Peak 11.150	11.150	19485	
Unknown Peak 11.257	11.258	50302	
Unknown Peak 11.608	11.609	13945	
Unknown Peak 11.816	11.816	40757	
Unknown Peak 11.938	11.938	14267	
Unknown Peak 12.067	12.067	17484	
Unknown Peak 12.453	12.454	68622	
Unknown Peak 12.819	12.819	13355	
Unknown Peak 12.991	12.991	119469	
Unknown Peak 13.363	13.364	38101	
Unknown Peak 13.521	13.521	10992	
Unknown Peak 13.642	13.643	23028	

List of Selected Compounds

Data File: File Information: p082115.d
Sample #: 2108390-26A
Client ID:
Spike Level: 0
Dilution Factor: 2.1

Compounds	RT	Peak Area	10
Unknown Peak 13.800	13.801	18813	
Unknown Peak 14.910	14.911	10367	

Dilution Factor = $\frac{\text{Final Pressure}}{\text{Initial Vacuum}} = \frac{\text{14.7psi + Final Pressure (psi)}}{\text{14.7psi –[Init. Pressure (“Hg))*(14.7psi/30”Hg)]}}$

Dilution Factor = $\frac{\text{Final Pressure}}{\text{Initial Pressure}} = \frac{\text{14.7psi + Final Pressure (psi)}}{\text{14.7psi +Initial Pressure (psi)}}$

Initial Vacuum (" of Hg)	2 psi	5 psi	10 psi	15 psi
0.0	**1.14**	1.34	**1.68**	2.02
0.2	**1.14**	1.35	**1.69**	2.03
0.4	**1.15**	1.36	**1.70**	2.05
0.5	**1.16**	1.36	**1.71**	2.05
0.6	**1.16**	1.37	**1.71**	2.06
0.8	**1.17**	1.38	**1.73**	2.08
1.0	**1.18**	1.39	**1.74**	2.09
1.2	**1.18**	1.40	**1.75**	2.10
1.4	**1.19**	1.40	**1.76**	2.12
1.5	**1.20**	1.41	**1.77**	2.13
1.6	**1.20**	1.42	**1.77**	2.13
1.8	**1.21**	1.42	**1.79**	2.15
2.0	**1.22**	1.44	**1.80**	2.16
2.2	**1.23**	1.45	**1.81**	2.18
2.4	**1.23**	1.46	**1.83**	2.20
2.5	**1.24**	1.46	**1.83**	2.20
2.6	**1.24**	1.47	**1.84**	2.21
2.8	**1.25**	1.48	**1.85**	2.23
3.0	**1.26**	1.49	**1.87**	2.24
3.2	**1.27**	1.50	**1.88**	2.26
3.4	**1.28**	1.51	**1.90**	2.28
3.5	**1.29**	1.52	**1.90**	2.29
3.6	**1.29**	1.52	**1.91**	2.30
3.8	**1.30**	1.53	**1.92**	2.31
4.0	**1.31**	1.55	**1.94**	2.33
4.2	**1.32**	1.56	**1.95**	2.35
4.4	**1.33**	1.57	**1.97**	2.37
4.5	**1.34**	1.58	**1.98**	2.38
4.6	**1.34**	1.58	**1.98**	2.39
4.8	**1.35**	1.60	**2.00**	2.40
5.0	**1.36**	1.61	**2.02**	2.42
5.2	**1.37**	1.62	**2.03**	2.44
5.4	**1.39**	1.63	**2.05**	2.46
5.5	**1.39**	1.64	**2.06**	2.47
5.6	**1.40**	1.65	**2.07**	2.48
5.8	**1.41**	1.66	**2.08**	2.50
6.0	**1.42**	1.68	**2.10**	2.52
6.2	**1.43**	1.69	**2.12**	2.55
6.4	**1.44**	1.70	**2.14**	2.57
6.5	**1.45**	1.71	**2.15**	2.58
6.6	**1.46**	1.72	**2.15**	2.59
6.8	**1.47**	1.73	**2.17**	2.61
7.0	**1.48**	1.75	**2.19**	2.64
7.2	**1.49**	1.76	**2.21**	2.66
7.4	**1.51**	1.78	**2.23**	2.68
7.5	**1.51**	1.79	**2.24**	2.69
7.6	**1.52**	1.79	**2.25**	2.70

Initial Vacuum (" of Hg)	2 psi	5 psi	10 psi	15 psi
7.7	**1.53**	1.80	**2.26**	2.72
7.8	**1.54**	1.81	**2.27**	2.73
8.0	**1.55**	1.83	**2.29**	2.76
8.2	**1.56**	1.84	**2.31**	2.78
8.4	**1.58**	1.86	**2.33**	2.81
8.5	**1.59**	1.87	**2.34**	2.82
8.6	**1.59**	1.88	**2.36**	2.83
8.8	**1.61**	1.90	**2.38**	2.86
9.0	**1.62**	1.91	**2.40**	2.89
9.2	**1.64**	1.93	**2.42**	2.91
9.4	**1.65**	1.95	**2.45**	2.94
9.5	**1.66**	1.96	**2.46**	2.96
9.6	**1.67**	1.97	**2.47**	2.97
9.8	**1.69**	1.99	**2.50**	3.00
10.0	**1.70**	2.01	**2.52**	3.03
10.2	**1.72**	2.03	**2.55**	3.06
10.4	**1.74**	2.05	**2.57**	3.09
10.5	**1.75**	2.06	**2.59**	3.11
10.6	**1.76**	2.07	**2.60**	3.12
10.8	**1.78**	2.09	**2.63**	3.16
11.0	**1.79**	2.12	**2.65**	3.19
11.2	**1.81**	2.14	**2.68**	3.22
11.4	**1.83**	2.16	**2.71**	3.26
11.5	**1.84**	2.17	**2.72**	3.28
11.6	**1.85**	2.18	**2.74**	3.29
11.8	**1.87**	2.21	**2.77**	3.33
12.0	**1.89**	2.23	**2.80**	3.37
12.2	**1.91**	2.26	**2.83**	3.40
12.4	**1.94**	2.28	**2.86**	3.44
12.5	**1.95**	2.30	**2.88**	3.46
12.6	**1.96**	2.31	**2.90**	3.48
12.8	**1.98**	2.34	**2.93**	3.52
13.0	**2.00**	2.36	**2.97**	3.56
13.2	**2.03**	2.39	**3.00**	3.61
13.4	**2.05**	2.42	**3.04**	3.65
13.5	**2.07**	2.44	**3.06**	3.67
13.6	**2.08**	2.45	**3.07**	3.70
13.8	**2.10**	2.48	**3.11**	3.74
14.0	**2.13**	2.51	**3.15**	3.79
14.2	**2.16**	2.54	**3.19**	3.84
14.4	**2.18**	2.58	**3.23**	3.88
14.5	**2.20**	2.59	**3.25**	3.91
14.6	**2.21**	2.61	**3.27**	3.94
14.8	**2.24**	2.64	**3.32**	3.99
15.0	**2.27**	2.68	**3.36**	4.04
15.2	**2.30**	2.72	**3.41**	4.10
15.4	**2.33**	2.75	**3.45**	4.15

Initial Vacuum (" of Hg)	2 psi	5 psi	10 psi	15 psi
15.5	**2.35**	2.77	**3.48**	4.18
15.6	**2.37**	2.79	**3.50**	4.21
15.8	**2.40**	2.83	**3.55**	4.27
16.0	**2.43**	2.87	**3.60**	4.33
16.2	**2.47**	2.91	**3.65**	4.39
16.4	**2.51**	2.96	**3.71**	4.46
16.5	**2.52**	2.98	**3.73**	4.49
16.6	**2.54**	3.00	**3.76**	4.52
16.8	**2.58**	3.05	**3.82**	4.59
17.0	**2.62**	3.09	**3.88**	4.66
17.2	**2.66**	3.14	**3.94**	4.74
17.4	**2.70**	3.19	**4.00**	4.81
17.5	**2.73**	3.22	**4.03**	4.85
17.6	**2.75**	3.24	**4.07**	4.89
17.8	**2.79**	3.30	**4.13**	4.97
18.0	**2.84**	3.35	**4.20**	5.05
18.2	**2.89**	3.41	**4.27**	5.14
18.4	**2.94**	3.47	**4.35**	5.22
18.5	**2.96**	3.50	**4.38**	5.27
18.6	**2.99**	3.53	**4.42**	5.32
18.8	**3.04**	3.59	**4.50**	5.41
19.0	**3.10**	3.65	**4.58**	5.51
19.2	**3.16**	3.72	**4.67**	5.61
19.4	**3.22**	3.79	**4.76**	5.72
19.5	**3.25**	3.83	**4.80**	5.77
19.6	**3.28**	3.87	**4.85**	5.83
19.8	**3.34**	3.94	**4.94**	5.94
20.0	**3.41**	4.02	**5.04**	6.06
20.2	**3.48**	4.10	**5.14**	6.18
20.4	**3.55**	4.19	**5.25**	6.31
20.5	**3.59**	4.23	**5.31**	6.38
20.6	**3.63**	4.28	**5.36**	6.45
20.8	**3.70**	4.37	**5.48**	6.59
21.0	**3.79**	4.47	**5.60**	6.73
21.2	**3.87**	4.57	**5.73**	6.89
21.4	**3.96**	4.67	**5.86**	7.05
21.5	**4.01**	4.73	**5.93**	7.13
21.6	**4.06**	4.79	**6.00**	7.22
21.8	**4.16**	4.90	**6.15**	7.39
22.0	**4.26**	5.03	**6.30**	7.58
22.4	**4.48**	5.29	**6.63**	7.98

Initial Vacuum (" of Hg)	2 psi	5 psi	10 psi	15 psi
22.5	**4.54**	5.36	**6.72**	8.08
22.6	**4.61**	5.43	**6.81**	8.19
22.8	**4.73**	5.58	**7.00**	8.42
23.0	**4.87**	5.74	**7.20**	8.66
23.2	**5.01**	5.91	**7.41**	8.91
23.4	**5.16**	6.09	**7.64**	9.18
23.5	**5.24**	6.19	**7.76**	9.32
23.6	**5.33**	6.28	**7.88**	9.47
23.8	**5.50**	6.48	**8.13**	9.78
24.0	**5.68**	6.70	**8.40**	10.10
24.2	**5.88**	6.93	**8.69**	10.45
24.4	**6.09**	7.18	**9.00**	10.82
24.5	**6.20**	7.31	**9.17**	11.02
24.6	**6.31**	7.45	**9.33**	11.22
24.8	**6.55**	7.73	**9.69**	11.66
25.0	**6.82**	8.04	**10.08**	12.12
25.2	**7.10**	8.38	**10.50**	12.63
25.4	**7.41**	8.74	**10.96**	13.18
25.5	**7.57**	8.93	**11.20**	13.47
25.6	**7.75**	9.14	**11.46**	13.78
25.8	**8.11**	9.57	**12.00**	14.43
26.0	**8.52**	10.05	**12.60**	15.15
26.2	**8.97**	10.58	**13.27**	15.95
26.4	**9.47**	11.17	**14.00**	16.84
26.5	**9.74**	11.49	**14.40**	17.32
26.6	**10.02**	11.82	**14.83**	17.83
26.8	**10.65**	12.56	**15.75**	18.94
27.0	**11.36**	13.40	**16.80**	20.20
27.2	**12.17**	14.36	**18.00**	21.65
27.4	**13.11**	15.46	**19.39**	23.31
27.5	**13.63**	16.08	**20.16**	24.24
27.6	**14.20**	16.75	**21.00**	25.26
27.8	**15.49**	18.27	**22.91**	27.55
28.0	**17.04**	20.10	**25.20**	30.31
28.2	**18.93**	22.34	**28.00**	33.67
28.4	**21.30**	25.13	**31.51**	37.88
28.5	**22.72**	26.80	**33.61**	40.41
28.6	**24.34**	28.72	**36.01**	43.29
28.8	**28.40**	33.50	**42.01**	50.51
29.0	**34.08**	40.20	**50.41**	60.61

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Method:TO-15 (Sp)-AECOM (SMUD 59th alphanumeric)

CAS Number	Compound	Rpt. Limit(ppbv)
630-20-6	1,1,1,2-Tetrachloroethane	2.0
71-55-6	1,1,1-Trichloroethane	0.5
79-34-5	1,1,2,2-Tetrachloroethane	0.5
79-00-5	1,1,2-Trichloroethane	0.5
75-34-3	1,1-Dichloroethane	0.5
75-35-4	1,1-Dichloroethene	0.5
75-37-6	1,1-Difluoroethane	2.0
96-18-4	1,2,3-Trichloropropane	2.0
120-82-1	1,2,4-Trichlorobenzene	2.0
95-63-6	1,2,4-Trimethylbenzene	0.5
96-12-8	1,2-Dibromo-3-chloropropane	2.0
106-93-4	1,2-Dibromoethane (EDB)	0.5
95-50-1	1,2-Dichlorobenzene	0.5
107-06-2	1,2-Dichloroethane	0.5
78-87-5	1,2-Dichloropropane	0.5
108-67-8	1,3,5-Trimethylbenzene	0.5
106-99-0	1,3-Butadiene	0.5
541-73-1	1,3-Dichlorobenzene	0.5
106-46-7	1,4-Dichlorobenzene	0.5
123-91-1	1,4-Dioxane	2.0
540-84-1	2,2,4-Trimethylpentane	0.5
78-93-3	2-Butanone (Methyl Ethyl Ketone)	2.0
591-78-6	2-Hexanone	2.0
67-63-0	2-Propanol	2.0
107-05-1	3-Chloropropene	2.0
622-96-8	4-Ethyltoluene	0.5
108-10-1	4-Methyl-2-pentanone	0.5
67-64-1	Acetone	5.0
107-02-8	Acrolein	2.0
107-13-1	Acrylonitrile	2.0
100-44-7	alpha-Chlorotoluene	0.5
71-43-2	Benzene	0.5

75-27-4	Bromodichloromethane	0.5
	Method:TO-15 (Sp)-AECOM (SMUD 59th alphanumeric)	

CAS Number	Compound	Rpt. Limit(ppbv)
75-25-2	Bromoform	0.5
74-83-9	Bromomethane	5.0
75-15-0	Carbon Disulfide	2.0
56-23-5	Carbon Tetrachloride	0.5
108-90-7	Chlorobenzene	0.5
75-00-3	Chloroethane	2.0
67-66-3	Chloroform	0.5
74-87-3	Chloromethane	5.0
156-59-2	cis-1,2-Dichloroethene	0.5
10061-01-5	cis-1,3-Dichloropropene	0.5
98-82-8	Cumene	0.5
110-82-7	Cyclohexane	0.5
124-48-1	Dibromochloromethane	0.5
74-95-3	Dibromomethane	2.0
64-17-5	Ethanol	5.0
141-78-6	Ethyl Acetate	2.0
100-41-4	Ethyl Benzene	0.5
637-92-3	Ethyl-tert-butyl ether	2.0
75-69-4	Freon 11	0.5
76-13-1	Freon 113	0.5
76-14-2	Freon 114	0.5
75-71-8	Freon 12	0.5
811-97-2	Freon 134a	2.0
142-82-5	Heptane	0.5
87-68-3	Hexachlorobutadiene	2.0
67-72-1	Hexachloroethane	2.0
110-54-3	Hexane	0.5
74-88-4	Iodomethane	5.0
108-20-3	Isopropyl ether	2.0
108-38-3	m,p-Xylene	0.5
1634-04-4	Methyl tert-butyl ether	2.0
75-09-2	Methylene Chloride	5.0
91-20-3	Naphthalene	1.0
95-47-6	o-Xylene	0.5
103-65-1	Propylbenzene	0.5

115-07-1	Propylene	2.0
100-42-5	Styrene	0.5
994-05-8	tert-Amyl methyl ether	2.0
75-65-0	tert-Butyl alcohol	2.0
127-18-4	Tetrachloroethene	0.5
109-99-9	Tetrahydrofuran	0.5
108-88-3	Toluene	0.5
9999-9999-038	TPH ref. to Gasoline (MW=100)	50.0
156-60-5	trans-1,2-Dichloroethene	0.5
10061-02-6	trans-1,3-Dichloropropene	0.5
79-01-6	Trichloroethene	0.5
108-05-4	Vinyl Acetate	2.0
593-60-2	Vinyl Bromide	2.0
75-01-4	Vinyl Chloride	0.5

	Surrogate	Method Limits
17060-07-0	1,2-Dichloroethane-d4	70-130
460-00-4	4-Bromofluorobenzene	70-130
2037-26-5	Toluene-d8	70-130

Eurofins Air Toxics Workorder # 2108390	Data Review Checklist			Release Date: 10/22/19
	Form F1.27	Revision #17	Revision Date: 10/22/19	Page 1 of 2

S1	S2	S3	S4	D	***Section 1* – Spec Out**					
					Initials/Instrument/Date	**S1:** MSDP mjs 08/20/21	**S2:** MSD-P MM 08/21/21	**S3:**	**S4:**	
✓	✓				Project Identification (PID), Project Requirements Table (PRT), Daily QC and ICAL met Criteria					
✓	✓				Lumen QC and ICAL evaluation (ref. SOP/Method) report initialed and in folder					
✓	NA				Manual Integrations included and approved					
✓	✓				Chain of Custody verified for special comments/notes and analyses requested (add comments below)					
✓	✓				Non-standard Target sublist verified (MDL, LOD, RL, control limits, etc.)					
✓	✓				Verified standard expiration dates					

Profile, analyses, reporting, special notes and unusual circumstances: S1: CCV: Øat. ICS: Øat. LCSDlat SpCCV: Øat RPD ok. S2: QC: 1 out CCV, Øout LCS, 1 out LCSD, SpCCV, TPHg

A1	A2	A3	A4	D	***Section 2* – Sample Analysis**					
					Initials/Date	**A1:** MM 8/20/21	**A2:** MM 08/21/21	**A3:** ID 8/23/21	**A4:**	
✓	✓	✓		✓	IS/Surr Recoveries, Dilution Factors, Load Volumes, leg(s) of instrument, Initial/Final Pressures, Canister #s Verified and dilution ranges are met per SOP (ex. Over-ranged/overdiluted)					
NA	NA	NA	NA		**a)** Tedlar Bag IDs verified against COC **b)** Tedlar Bag ID confirmed with loading sequence/leg(s) of instrument					
✓	NA	NA		✓	Manual Integrations/Bag or Can Dilution Forms/Re-pressurization Forms/Bag-Can Transfer Forms present (circle all that apply)					
✓	✓	✓			12/24 Hr clock time & Hold Time met for all samples					
		✓		✓	Re-analysis of sample(s) has been evaluated for comparability and/or sample(s) has/have been checked for trends (Inf/Eff), field dups/trip blanks, samples following bad loads on auto samplers have been verified (system blks, confirmation runs)					
✓	✓	✓		✓	All runs have been evaluated for potential carry-over (TPHg/non-Target/over-range compounds/ etc.)					

Analytical and special notes: A1: 01A-03A, 05A-07A failed. 09A, 10A failed. 1 4/008 2015-16
A2: 04A, 08A, 11A-19A: full ICAds, 10A, 11A: failing FDs confirmation: Not needed, screens confirm.
A3: 20A-26A-Full loads, 20A/21A possible FDs - Don't dup for Hexane but <40%.

D1	D2	D3	D4	T	3T	***Section 3* – Target Data Reduction**	**Technical Review Needed? Circle one: Yes/No**		**T:**	
						Initials/Instrument/ Date	**D1:** GL 8/24/21	**D2:**	**D3:**	**D4:**
NA						CAR # *(if applicable)*				
✓						Spectra Verified *(documentation of spectral defense included if applicable)*				
NA						TICs resemble reference spectra/ TICs between sample dups. are consistent *(if applicable)*				
✓						Lab Narrative is correct				
NA						TPH/NMOC calculations complete and included in folder				

Special notes:

A	3T	***Section 4*- Atlas Data Entry**	**Lumen verified and included in folder**	**Circle one: Yes/No**
		Initials/Date: GL 8/24/21	**3rd Tier:** *(needed only for DOD or per client request)*	
NA		Sample Discrepancy Report (SDR) complete and approved *(if applicable)*		
✓		Manually entered results are checked		
✓		At least one result per sample is verified against Target quant sheets		
✓		Appropriate data qualifier flags are applied		
✓		Final Invoice is correct/ Final PDF report, COC and EDD reviewed and correct		

Special Notes:

Note (1) *Please check all the appropriate boxes. Indicate "NA" for any statement that doesn't apply*
Note (2) 3rd Tier Report Reviewer and Write Up Reviewer must be separate individuals for DoD & Client Specific Projects

Workorder # :				**Reason for Reissue:**
W	**T**	**3T**	**Q**	
				Reissue Request form Present
				Client or QA or Lab contact present with reason for reissue
				Review all affected data
				Report header has correct R1, R2 etc
				The Lab Narrative clearly explains the reissue (Date, Reason and whether client requested)
				Date for Reissue in Report Header matches date in Lab Narrative
				Check Project Profile for correct reporting instructions (multiple clients, # hardcopies, etc)
				Corrective Action issued - #
				The reissued workorder has been approved by QA Manager or a Technical Director
Additional Comments:				

Write Up (Initials/Date)	**Tech Review** (Initials/Date)	***3rd Tier Review** ** 3rd Tier Report Review is for DoD & Client Specific projects only* (Initials/Date)	**QA Review** (Initials/Date)

Workorder # :				**Reason for Reissue:**
W	**T**	**3T**	**Q**	
				Reissue Request form Present
				Client or QA or Lab contact present with reason for reissue
				Review all affected data
				Report header has correct R1, R2 etc
				The Lab Narrative clearly explains the reissue (Date, Reason and whether client requested)
				Date for Reissue in Report Header matches date in Lab Narrative
				Check Project Profile for correct reporting instructions (multiple clients, # hardcopies, etc)
				Corrective Action issued - #
				The reissued workorder has been approved by QA Manager or a Technical Director
Additional Comments:				

Write Up (Initials/Date)	**Tech Review** (Initials/Date)	***3rd Tier Review** ** 3rd Tier Report Review is for DoD & Client Specific projects only* (Initials/Date)	**QA Review** (Initials/Date)

Note (1) *Please check all the appropriate boxes. Indicate "NA" for any statement that doesn't apply*
Note (2) 3rd Tier Report Reviewer and Write Up Reviewer must be separate individuals for DoD & Client Specific Projects

Not Applicable

Electronic Comprehensive Validation Package (eCVP)

Vera Belitsky Vera Belitsky 09-08-2021

eurofins | Air Toxics

WORK ORDER #: 2108676A

Work Order Summary

CLIENT:	Mr. Robert Kohlhardt AECOM 2020 L Street, Suite 400 Sacramento, CA 95811	**BILL TO:**	Mr. Jerry Montgomery SWPPQueen 7202 Gloria Drive #25 Sacramento, CA 95831
PHONE:	916-679-2000	**P.O. #**	
FAX:	916-679-2900	**PROJECT #**	60132793.6 SMUD 59th St
DATE RECEIVED:	08/30/2021	**CONTACT:**	Monica Tran
DATE COMPLETED:	09/07/2021		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	SG-VW21A-05	TO-15	7.0 "Hg	10 psi
02A	Lab Blank	TO-15	NA	NA
03A	CCV	TO-15	NA	NA
04A	LCS	TO-15	NA	NA
04AA	LCSD	TO-15	NA	NA

CERTIFIED BY:  DATE: 09/07/21

Technical Director

Certification numbers: AZ Licensure AZ0775, FL NELAP – E87680, LA NELAP – 02089, NH NELAP - 209220, NJ NELAP - CA016, NY NELAP - 11291, TX NELAP - T104704434-20-16, UT NELAP – CA009332020-12, VA NELAP - 10615, WA NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005-014, Effective date: 10/18/2020, Expiration date: 10/17/2021.
Eurofins Air Toxics, LLC certifies that the test results contained in this report meet all requirements of the NELAC standards

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 351-8279

LABORATORY NARRATIVE
EPA Method TO-15
AECOM
Workorder# 2108676A

One 1 Liter Summa Canister sample was received on August 30, 2021. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

A single point calibration for TPH referenced to Gasoline was performed for each daily analytical batch. Recovery is reported as 100% in the associated results for each CCV.

The reported CCV for each daily batch may be derived from more than one analytical file due to the client's request for non-standard compounds.

Non-standard compounds may have different acceptance criteria than the standard TO-14A/TO-15 compound list as per contract or verbal agreement.

The US EPA released a document on December 17, 2010 outlining possible data quality concerns for Acrolein measured by EPA Method TO-15. As a result, Acrolein is reported as estimated. Please refer to EPA document tilted "Data Quality Evaluation Guidelines for Ambient Air Acrolein Measurements December 17, 2010" located on-line at www.epa.gov/ttn/amtic/airtox.html for complete details.

All Quality Control Limit exceedances and affected sample results are noted by flags. Each flag is defined at the bottom of this Case Narrative and on each Sample Result Summary page. Target compound non-detects in the samples that are associated with high bias in QC analyses have not been flagged.

As per client project requirements, the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit. Concentrations that are below the level at which the canister was certified may be false positives.

Definition of Data Qualifying Flags

Ten qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

M - Reported value may be biased due to apparent matrix interferences.

CN - See Case Narrative.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

Table 1								
Client Sample ID	Lab Sample ID	Date Collected	Date Received	Date Extracted	Sample Holding Time (Days)	Date Analyzed	Sample Extract Holding Time (Days)	Sample Condition
SG-VW21A-05	2108676A-01A	08/30/2021	08/30/2021	NA	3	09/02/2021	NA	GOOD
Lab Blank	2108676A-02A	NA	NA	NA	NA	09/02/2021	NA	GOOD
CCV	2108676A-03A	NA	NA	NA	NA	09/02/2021	NA	GOOD
LCS	2108676A-04A	NA	NA	NA	NA	09/02/2021	NA	GOOD
LCSD	2108676A-04AA	NA	NA	NA	NA	09/02/2021	NA	GOOD

Sample Results and Raw Data

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Client ID:	SG-VW21A-05		
Lab ID:	2108676A-01A	**Date/Time Analyzed:**	9/2/21 10:59 PM
Date/Time Collected:	8/30/21 10:59 AM	**Dilution Factor:**	2.19
Media:	1 Liter Summa Canister	**Instrument/Filename:**	msdp.i / p090222

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1,2-Tetrachloroethane	630-20-6	1.5	D	30	Not Detected
1,1,1-Trichloroethane	71-55-6	0.47	3.0	6.0	6.0
1,1,2,2-Tetrachloroethane	79-34-5	0.70	3.8	7.5	Not Detected
1,1,2-Trichloroethane	79-00-5	0.96	3.0	6.0	Not Detected
1,1-Dichloroethane	75-34-3	0.92	2.2	4.4	Not Detected
1,1-Dichloroethene	75-35-4	1.4	2.2	4.3	Not Detected
1,1-Difluoroethane	75-37-6	2.6	D	12	49
1,2,3-Trichloropropane	96-18-4	1.6	D	26	Not Detected
1,2,4-Trichlorobenzene	120-82-1	2.9	9.8	32	Not Detected
1,2,4-Trimethylbenzene	95-63-6	0.62	2.7	5.4	8.5
1,2-Dibromo-3-chloropropane	96-12-8	1.4	D	42	Not Detected
1,2-Dibromoethane (EDB)	106-93-4	1.6	4.2	8.4	Not Detected
1,2-Dichlorobenzene	95-50-1	0.74	3.3	6.6	Not Detected
1,2-Dichloroethane	107-06-2	0.73	2.2	4.4	Not Detected
1,2-Dichloropropane	78-87-5	1.2	2.5	5.1	Not Detected
1,3,5-Trimethylbenzene	108-67-8	1.1	2.7	5.4	3.8 J
1,3-Butadiene	106-99-0	0.70	1.2	2.4	Not Detected
1,3-Dichlorobenzene	541-73-1	0.75	3.3	6.6	Not Detected
1,4-Dichlorobenzene	106-46-7	0.78	3.3	6.6	Not Detected
1,4-Dioxane	123-91-1	2.3	4.7	16	Not Detected
2,2,4-Trimethylpentane	540-84-1	0.60	2.6	5.1	Not Detected
2-Butanone (Methyl Ethyl Ketone)	78-93-3	2.0	3.9	13	7.6 J
2-Hexanone	591-78-6	0.43	2.2	18	0.72 J
2-Propanol	67-63-0	0.81	3.2	11	16

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Client ID:	SG-VW21A-05		
Lab ID:	2108676A-01A	**Date/Time Analyzed:**	9/2/21 10:59 PM
Date/Time Collected:	8/30/21 10:59 AM	**Dilution Factor:**	2.19
Media:	1 Liter Summa Canister	**Instrument/Filename:**	msdp.i / p090222

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
3-Chloropropene	107-05-1	3.0	4.1	14	Not Detected
4-Ethyltoluene	622-96-8	1.1	2.7	5.4	7.2
4-Methyl-2-pentanone	108-10-1	1.1	2.2	4.5	Not Detected
Acetone	67-64-1	2.6	3.1	26	32
Acrolein	107-02-8	1.5	D	10	Not Detected
Acrylonitrile	107-13-1	0.58	D	9.5	Not Detected
alpha-Chlorotoluene	100-44-7	0.51	2.8	5.7	Not Detected
Benzene	71-43-2	0.66	1.7	3.5	3.1 J
Bromodichloromethane	75-27-4	1.1	3.7	7.3	Not Detected
Bromoform	75-25-2	1.2	5.7	11	Not Detected
Bromomethane	74-83-9	1.8	5.1	42	Not Detected
Carbon Disulfide	75-15-0	1.3	4.1	14	2.9 J
Carbon Tetrachloride	56-23-5	1.8	3.4	6.9	Not Detected
Chlorobenzene	108-90-7	0.46	2.5	5.0	Not Detected
Chloroethane	75-00-3	3.0	4.3	12	Not Detected
Chloroform	67-66-3	0.46	2.7	5.3	9.1
Chloromethane	74-87-3	1.6	2.7	23	Not Detected
cis-1,2-Dichloroethene	156-59-2	1.6	2.2	4.3	Not Detected
cis-1,3-Dichloropropene	10061-01-5	0.96	2.5	5.0	Not Detected
Cumene	98-82-8	0.68	2.7	5.4	Not Detected
Cyclohexane	110-82-7	0.62	1.9	3.8	Not Detected
Dibromochloromethane	124-48-1	1.6	4.7	9.3	Not Detected
Dibromomethane	74-95-3	1.2	D	31	Not Detected
Ethanol	64-17-5	2.6	3.1	21	7.1 J

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Client ID:	SG-VW21A-05		
Lab ID:	2108676A-01A	**Date/Time Analyzed:**	9/2/21 10:59 PM
Date/Time Collected:	8/30/21 10:59 AM	**Dilution Factor:**	2.19
Media:	1 Liter Summa Canister	**Instrument/Filename:**	msdp.i / p090222

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethyl Acetate	141-78-6	0.92	D	16	Not Detected
Ethyl Benzene	100-41-4	1.2	2.4	4.8	2.4 J
Ethyl-tert-butyl ether	637-92-3	0.96	D	18	Not Detected
Freon 11	75-69-4	1.3	3.1	6.2	1.8 J
Freon 113	76-13-1	1.3	4.2	8.4	Not Detected
Freon 114	76-14-2	1.4	3.8	7.6	Not Detected
Freon 12	75-71-8	0.86	2.7	5.4	Not Detected
Freon 134a	811-97-2	2.2	D	18	Not Detected
Heptane	142-82-5	1.1	2.2	4.5	Not Detected
Hexachlorobutadiene	87-68-3	4.3	14	47	Not Detected
Hexachloroethane	67-72-1	NA	D	42	Not Detected
Hexane	110-54-3	0.70	1.9	3.8	52
Iodomethane	74-88-4	0.83	D	64	Not Detected
Isopropyl ether	108-20-3	0.54	D	18	Not Detected
m,p-Xylene	108-38-3	1.1	2.4	4.8	6.5
Methyl tert-butyl ether	1634-04-4	0.85	4.7	16	Not Detected
Methylene Chloride	75-09-2	0.78	1.9	38	Not Detected
Naphthalene	91-20-3	4.4	5.7	11	Not Detected
o-Xylene	95-47-6	1.2	2.4	4.8	3.1 J
Propylbenzene	103-65-1	0.89	2.7	5.4	1.5 J
Propylene	115-07-1	0.56	0.94	7.5	Not Detected
Styrene	100-42-5	0.60	2.3	4.7	Not Detected
tert-Amyl methyl ether	994-05-8	1.9	D	18	Not Detected
tert-Butyl alcohol	75-65-0	0.92	4.0	13	Not Detected

EPA METHOD TO-15 GC/MS FULL SCAN
SMUD 59th St

Client ID:	SG-VW21A-05		
Lab ID:	2108676A-01A	**Date/Time Analyzed:**	9/2/21 10:59 PM
Date/Time Collected:	8/30/21 10:59 AM	**Dilution Factor:**	2.19
Media:	1 Liter Summa Canister	**Instrument/Filename:**	msdp.i / p090222

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	127-18-4	1.2	3.7	7.4	170
Tetrahydrofuran	109-99-9	0.65	1.6	3.2	1.6 J
Toluene	108-88-3	0.42	2.1	4.1	13
TPH ref. to Gasoline (MW=100)	9999-9999-038	NA	D	450	Not Detected
trans-1,2-Dichloroethene	156-60-5	1.1	2.2	4.3	Not Detected
trans-1,3-Dichloropropene	10061-02-6	0.86	2.5	5.0	Not Detected
Trichloroethene	79-01-6	0.85	2.9	5.9	23
Vinyl Acetate	108-05-4	4.2	5.8	15	Not Detected
Vinyl Bromide	593-60-2	1.3	D	19	Not Detected
Vinyl Chloride	75-01-4	0.71	1.4	2.8	Not Detected

J = Estimated value.
D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	112
4-Bromofluorobenzene	460-00-4	70-130	104
Toluene-d8	2037-26-5	70-130	100

US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/02SEP21.b/p090222.d
Lab Smp Id: 2108676A-01A
Inj Date : 02-SEP-2021 22:59
Operator : gh Inst ID: msdp.i
Smp Info : 200ml 1L2704
Misc Info : 7.0 Hg->10 psi
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/02SEP21.b/p21q0519a.m
Meth Date : 03-Sep-2021 10:14 lk8g Quant Type: ISTD
Cal Date : 19-MAY-2021 19:45 Cal File: p051915.d
Als bottle: 2
Dil Factor: 2.19000
Integrator: HP RTE Compound Sublist: AEC25677.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE		(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 90 Bromochloromethane							CAS #: 74-97-5	
5.785	5.778 (1.000)	130	119538	25.0000			80.00- 120.00	100.00
5.785	5.778 (1.000)	128	94822				48.23- 108.23	79.32
5.785	5.778 (1.000)	49	275106				150.57- 210.57	230.14
$ 104 1,2-Dichloroethane-d4							CAS #: 17060-07-0	
6.315	6.308 (1.092)	65	185651	28.1418	28.142		80.00- 120.00	100.00
6.315	6.308 (1.092)	67	85699				27.21- 87.21	46.16
* 108 1,4-Difluorobenzene							CAS #: 540-36-3	
6.659	6.659 (1.000)	114	406854	25.0000			80.00- 120.00	100.00
6.659	6.659 (1.000)	88	59065				0.00- 45.71	14.52
$ 134 Toluene-d8							CAS #: 2037-26-5	
7.891	7.891 (1.185)	98	441480	24.9887	24.989		80.00- 120.00	100.00
7.891	7.891 (1.185)	70	48578				0.00- 40.44	11.00
7.891	7.891 (1.185)	100	290391				34.95- 94.95	65.78
* 153 Chlorobenzene-d5							CAS #: 3114-55-4	
9.460	9.460 (1.000)	117	415198	25.0000			80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
* 153 Chlorobenzene-d5 (continued)							
9.460	9.460 (1.000)	82	214014			23.78- 83.78	51.55
$ 170 4-Bromofluorobenzene					CAS #: 460-00-4		
10.921	10.921 (1.154)	174	278462	26.1177	26.118	80.00- 120.00	100.00
10.914	10.921 (1.154)	95	325339			95.92- 155.92	116.83
10.921	10.921 (1.154)	176	269371			66.89- 126.89	96.74
7 1,1-Difluoroethane					CAS #: 75-37-6		
1.716	1.702 (0.297)	65	22427	8.27701	18.127	80.00- 120.00	100.00
1.772	1.744 (0.306)	51	1410249			597.63- 657.63	6288.05
1.758	1.702 (0.304)	47	43734			33.72- 93.72	195.01
33 Freon 11					CAS #: 75-69-4		
2.891	2.891 (0.500)	101	1666	0.14623	0.3202	80.00- 120.00	100.00(a)
2.891	2.891 (0.500)	103	689			34.72- 94.72	41.39
39 Ethanol					CAS #: 64-17-5		
3.250	3.242 (0.562)	46	2045	1.72508	3.778	80.00- 120.00	100.00(a)
3.278	3.242 (0.567)	45	6448			511.19- 571.19	315.29
47 Acetone					CAS #: 67-64-1		
3.729	3.715 (0.645)	58	19084	6.08969	13.336	80.00- 120.00	100.00
3.729	3.715 (0.645)	43	86384			302.95- 362.95	452.65
48 Carbon Disulfide					CAS #: 75-15-0		
3.837	3.822 (0.663)	76	5603	0.42057	0.9210	80.00- 120.00	100.00(a)
52 2-Propanol					CAS #: 67-63-0		
3.901	3.887 (0.674)	45	38215	3.02567	6.626	80.00- 120.00	100.00
3.901	3.887 (0.674)	43	9385			0.00- 47.19	24.56
67 Hexane					CAS #: 110-54-3		
4.696	4.696 (0.812)	57	79255	6.73029	14.739	80.00- 120.00	100.00
4.696	4.696 (0.812)	43	69327			37.52- 97.52	87.47
4.696	4.696 (0.812)	86	8762			0.00- 41.48	11.06
86 2-Butanone					CAS #: 78-93-3		
5.563	5.556 (0.962)	72	3203	1.18548	2.596	80.00- 120.00	100.00(a)
5.563	5.556 (0.962)	43	26359			1214.50-1274.50	822.73
5.563	5.556 (0.962)	57	1799			14.68- 74.68	56.17
89 Tetrahydrofuran					CAS #: 109-99-9		
5.785	5.771 (1.000)	42	2250	0.25039	0.5484	80.00- 120.00	100.00(a)
5.778	5.771 (0.999)	71	155			0.00- 55.82	6.89
5.785	5.771 (1.000)	72	117			0.00- 57.59	5.23

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
92 Chloroform					CAS #: 67-66-3		
5.843	5.835 (1.010)	83	8890	0.85475	1.872	80.00- 120.00	100.00
5.835	5.835 (1.009)	85	6693			34.70- 94.70	75.29
96 1,1,1-Trichloroethane					CAS #: 71-55-6		
5.971	5.971 (1.032)	97	5940	0.50554	1.107	80.00- 120.00	100.00
5.964	5.971 (1.031)	99	3777			34.02- 94.02	63.60
102 Benzene					CAS #: 71-43-2		
6.301	6.301 (0.946)	78	5952	0.44332	0.9709	80.00- 120.00	100.00(a)
6.294	6.301 (0.945)	77	1695			0.00- 52.90	28.47
111 Trichloroethene					CAS #: 79-01-6		
6.867	6.867 (1.031)	95	12761	1.95875	4.290	80.00- 120.00	100.00
6.867	6.867 (1.031)	130	13663			76.29- 136.29	107.06
6.867	6.867 (1.031)	97	8659			33.63- 93.63	67.85
137 Toluene					CAS #: 108-88-3		
7.948	7.948 (1.194)	91	30029	1.62114	3.550	80.00- 120.00	100.00
7.948	7.948 (1.194)	92	17026			28.38- 88.38	56.70
142 Tetrachloroethene					CAS #: 127-18-4		
8.464	8.464 (0.895)	166	109315	11.5522	25.299	80.00- 120.00	100.00
8.464	8.464 (0.895)	129	82790			47.84- 107.84	75.74
8.464	8.464 (0.895)	131	80581			45.29- 105.29	73.71
143 2-Hexanone					CAS #: 591-78-6		
8.586	8.586 (0.908)	58	774	0.08022	0.1757	80.00- 120.00	100.00(a)
8.586	8.586 (0.908)	43	2372			162.87- 222.87	306.33
8.522	8.586 (0.901)	100	477			0.00- 45.94	61.67
155 Ethyl Benzene					CAS #: 100-41-4		
9.567	9.567 (1.011)	106	2131	0.24719	0.5413	80.00- 120.00	100.00(a)
9.567	9.567 (1.011)	91	5965			273.74- 333.74	279.81
158 m,p-Xylene					CAS #: 108-38-3		
9.711	9.718 (1.026)	106	7400	0.68536	1.501	80.00- 120.00	100.00
9.718	9.718 (1.027)	91	15142			163.73- 223.73	204.60
164 o-Xylene					CAS #: 95-47-6		
10.233	10.226 (1.082)	106	3410	0.32963	0.7219	80.00- 120.00	100.00(a)
10.219	10.226 (1.080)	91	7302			177.45- 237.45	214.15
178 Propylbenzene					CAS #: 103-65-1		
11.150	11.150 (1.179)	120	1309	0.13585	0.2975	80.00- 120.00	100.00(a)
11.150	11.150 (1.179)	91	5490			366.49- 426.49	419.28

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
178 Propylbenzene (continued)							
11.251	11.150 (1.189)	105	21119			0.00- 44.85	1612.88
183 4-Ethyltoluene					CAS #: 622-96-8		
11.251	11.286 (1.189)	120	6963	0.66448	1.455	80.00- 120.00	100.00
11.251	11.286 (1.189)	105	21119			284.55- 344.55	303.27
185 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
11.358	11.365 (1.201)	120	5157	0.35744	0.7828	80.00- 120.00	100.00(a)
11.358	11.365 (1.201)	105	9256			164.93- 224.93	179.47
190 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
11.817	11.816 (1.249)	105	21540	0.79099	1.732	80.00- 120.00	100.00
11.817	11.816 (1.249)	120	10662			19.05- 79.05	49.50

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p090222.d
Lab Smp Id: 2108676A-01A
Analysis Type: VOA
Quant Type: ISTD
Operator: gh
Method File: /chem/msdp.i/02SEP21.b/p21q0519a.m
Misc Info: 7.0 Hg->10 psi

Calibration Date: 02-SEP-2021
Calibration Time: 09:55
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	111368	66821	155915	119538	7.34
108 1,4-Difluorobenze	392899	235739	550059	406854	3.55
153 Chlorobenzene-d5	382253	229352	535154	415198	8.62

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.78	5.45	6.11	5.79	0.13
108 1,4-Difluorobenze	6.66	6.33	6.99	6.66	0.00
153 Chlorobenzene-d5	9.46	9.13	9.79	9.46	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 07-Sep-2021 06:57

US32TAR1

RECOVERY REPORT

Client Name: Client SDG: 02SEP21
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 2108676A-01A
Level: LOW Operator: gh
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT20_new.spk Quant Type: ISTD
Sublist File: AEC25677.sub
Method File: /chem/msdp.i/02SEP21.b/p21q0519a.m
Misc Info: 7.0 Hg->10 psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 104 1,2-Dichloroethan	25.000	28.142	112.57	70-130
$ 134 Toluene-d8	25.000	24.989	99.95	70-130
$ 170 4-Bromofluorobenz	25.000	26.118	104.47	70-130

Data File: /chem/msdp.i/02SEP21.b/p090222.d

Date : 02-SEP-2021 22:59

Client ID:

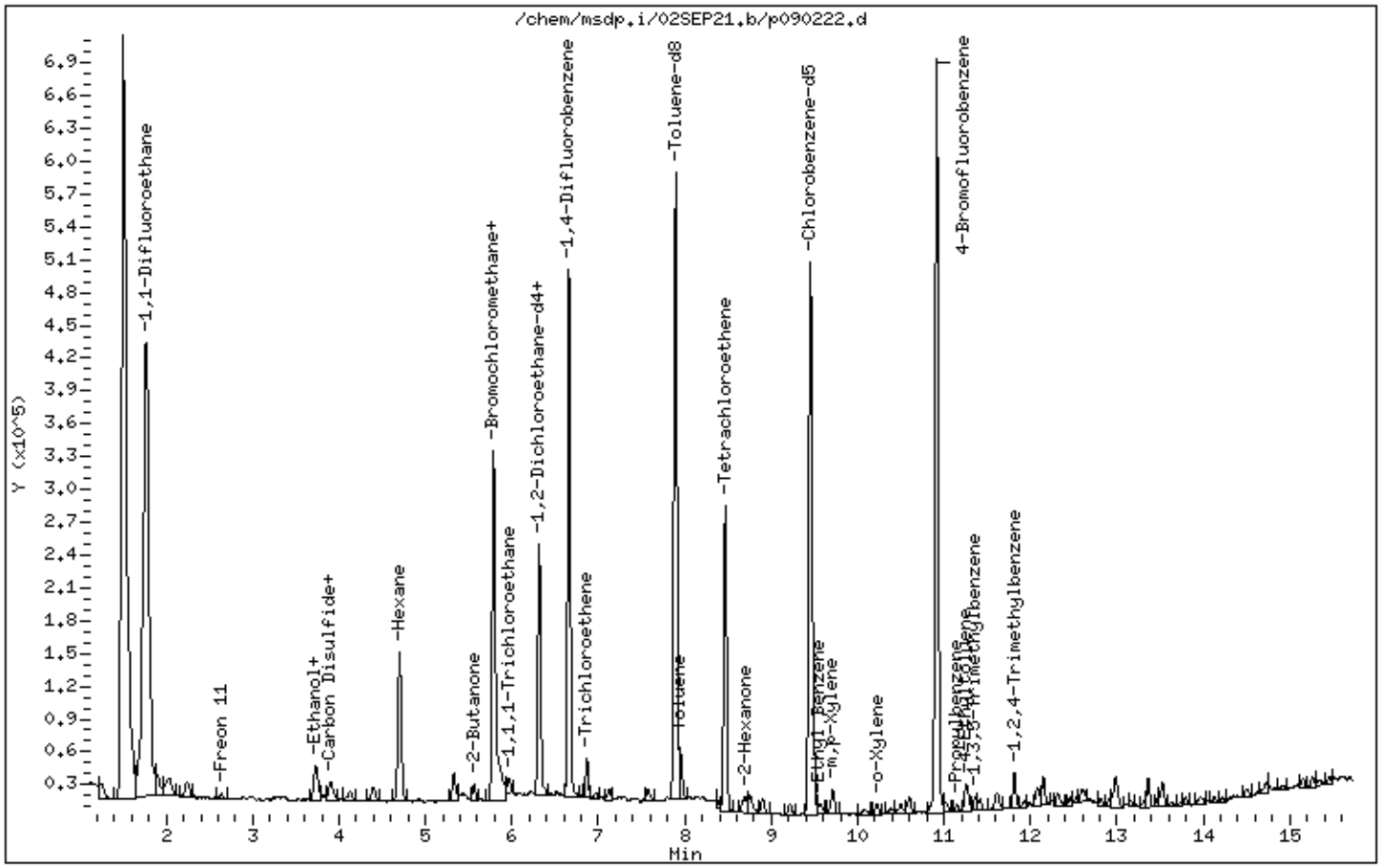
Instrument: msdp.i

Sample Info: 200ml 1L2704

Operator: gh

Column phase: RTX-624

Column diameter: 0.25



Data File: /chem/msdp.i/02SEP21.b/p090222.d

Date : 02-SEP-2021 22:59

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1L2704

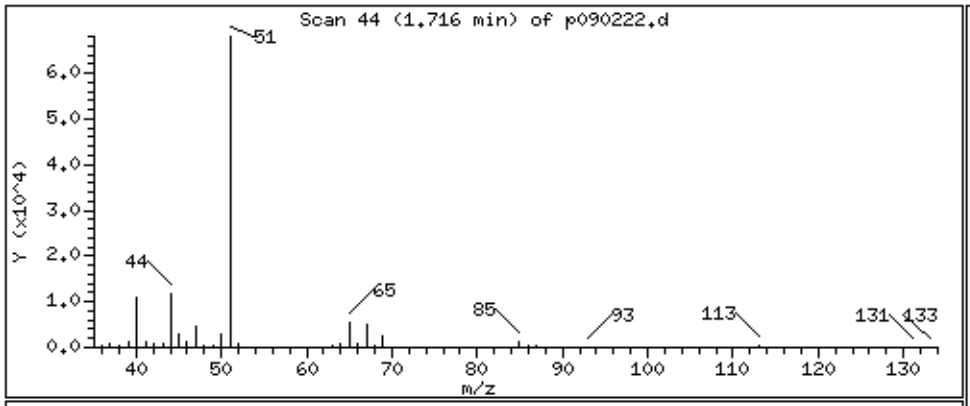
Operator: gh

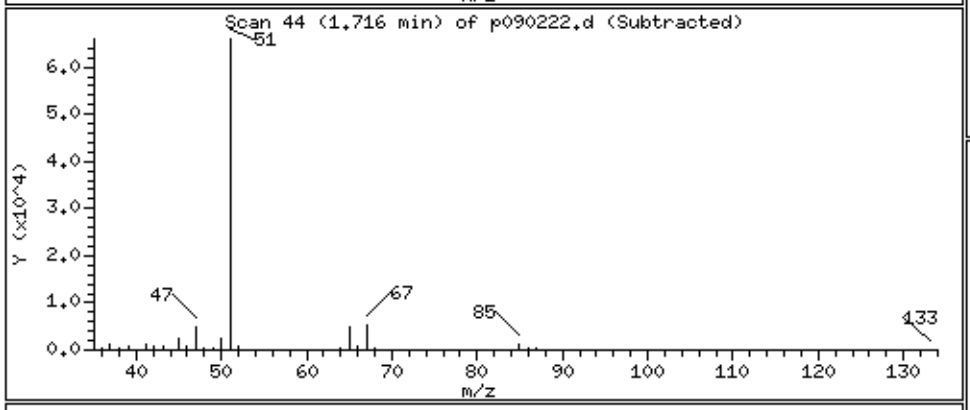
Column phase: RTX-624

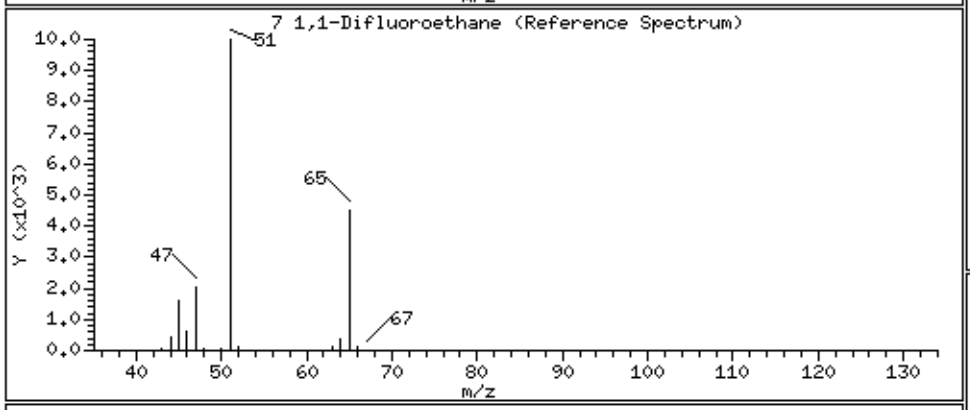
Column diameter: 0.25

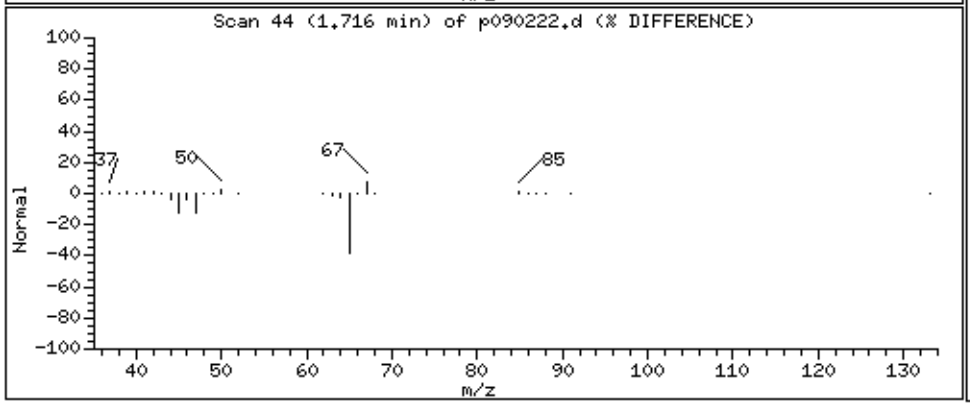
7 1,1-Difluoroethane

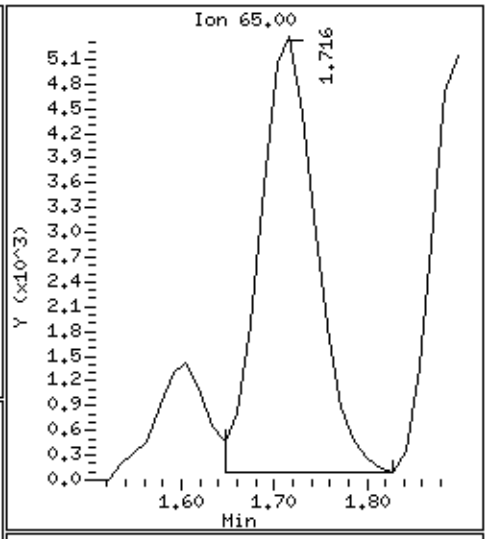
Concentration: 18.127 PPBV

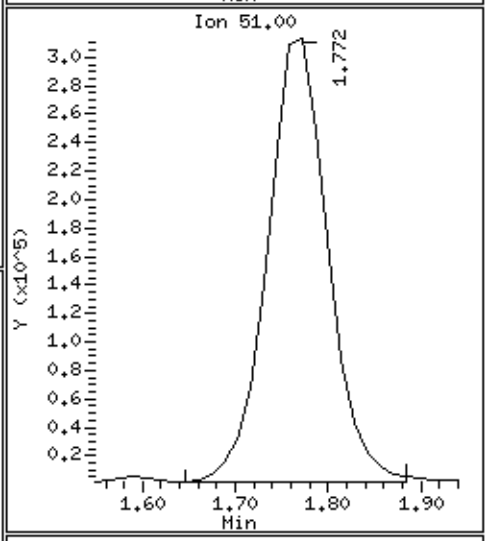


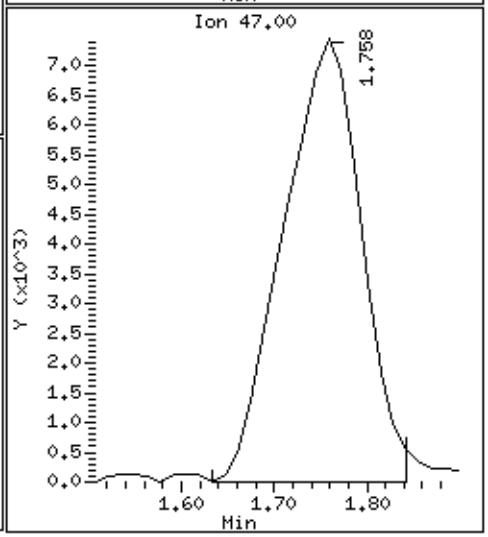












Data File: /chem/msdp.i/02SEP21.b/p090222.d

Date : 02-SEP-2021 22:59

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1L2704

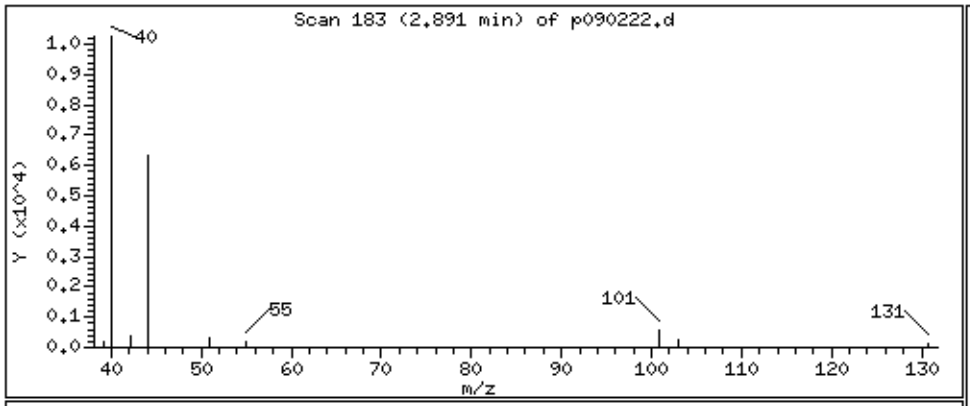
Operator: gh

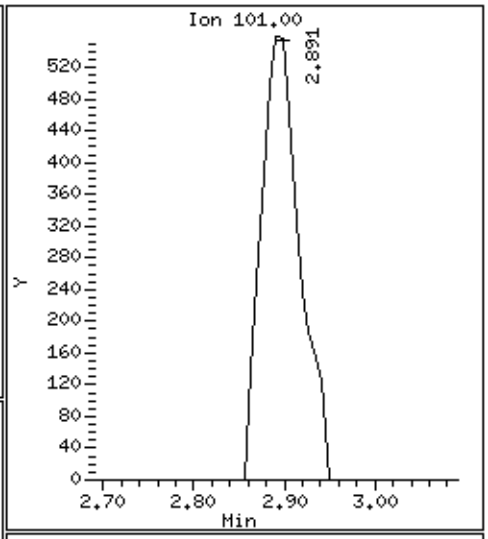
Column phase: RTX-624

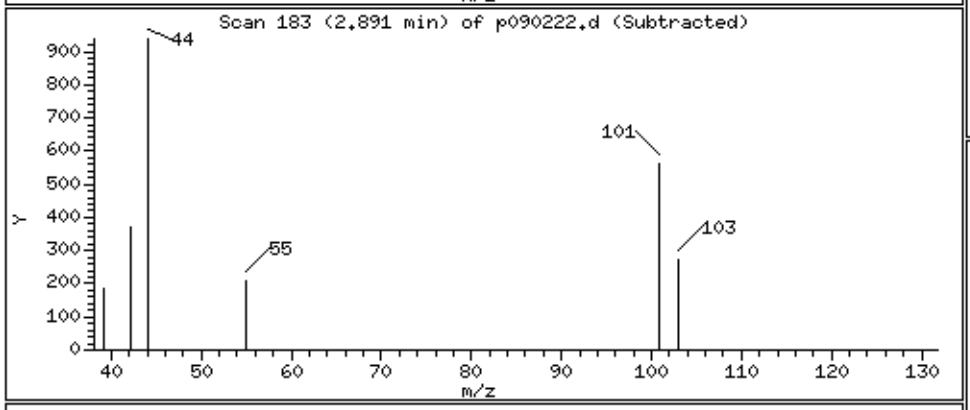
Column diameter: 0.25

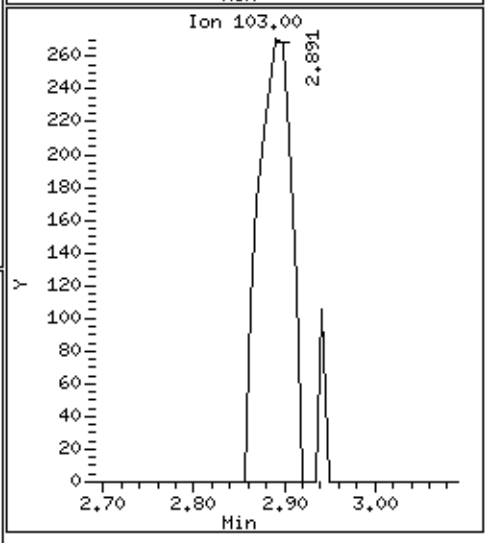
33 Freon 11

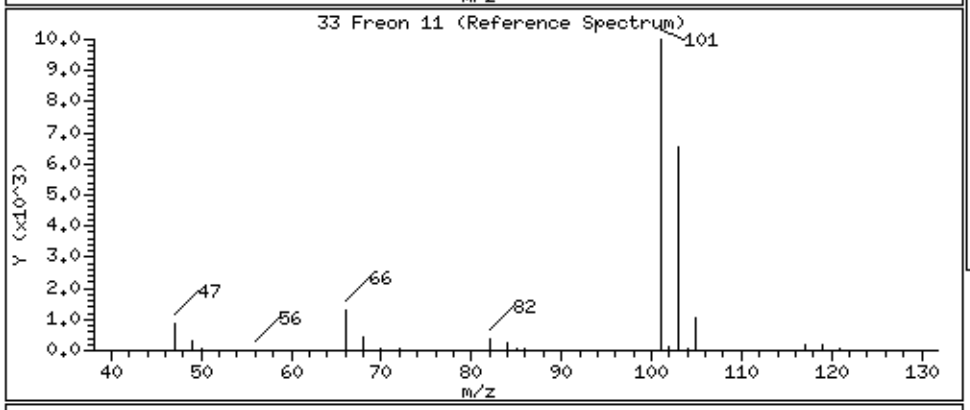
Concentration: 0.3202 PPBV

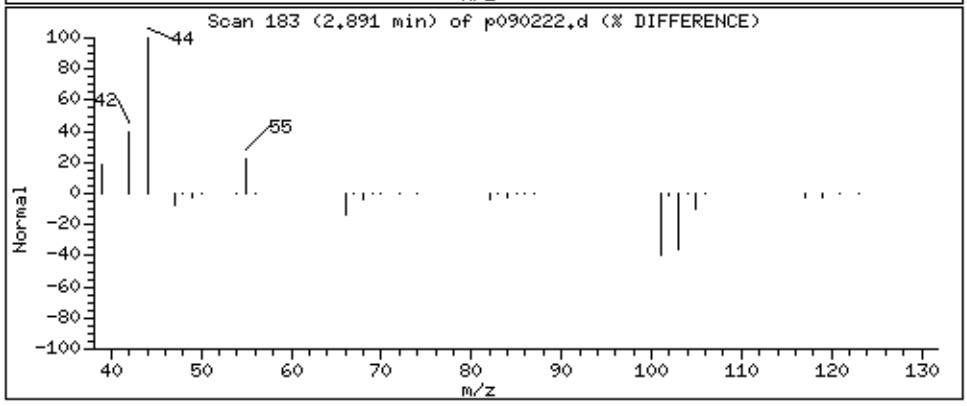












Data File: /chem/msdp.i/02SEP21.b/p090222.d

Date : 02-SEP-2021 22:59

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1L2704

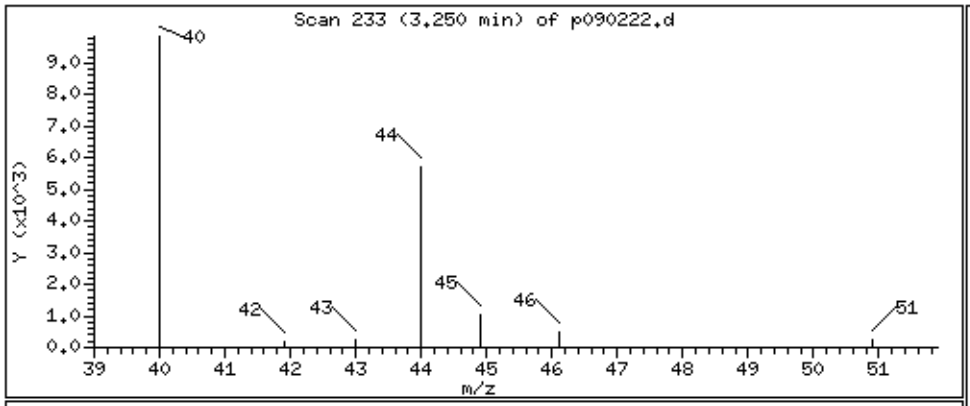
Operator: gh

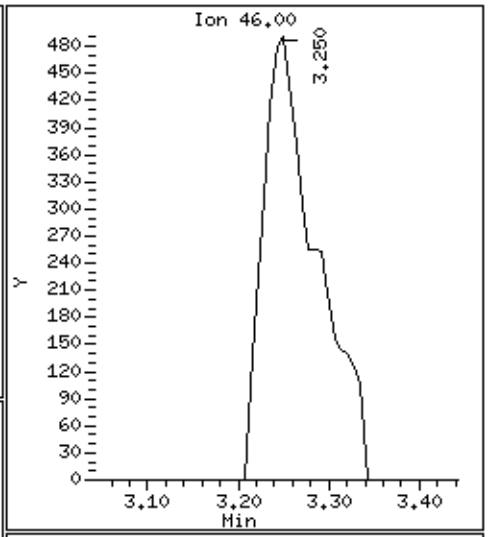
Column phase: RTX-624

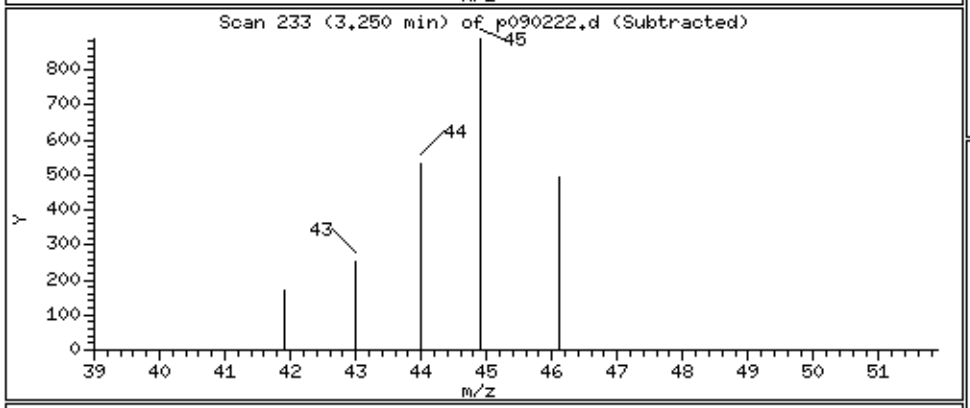
Column diameter: 0.25

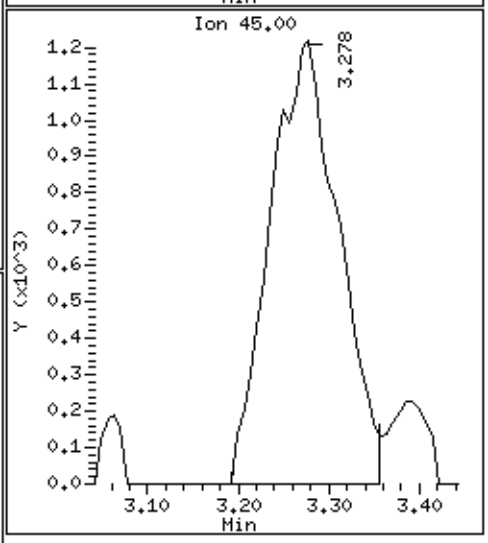
39 Ethanol

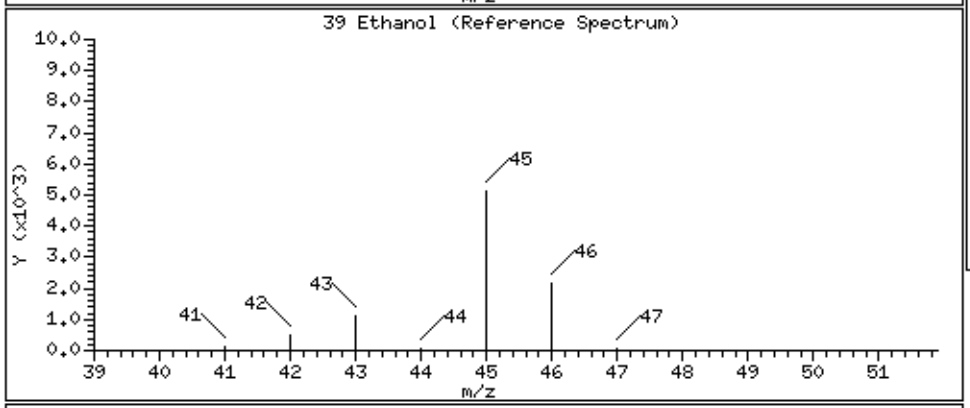
Concentration: 3.778 PPBV

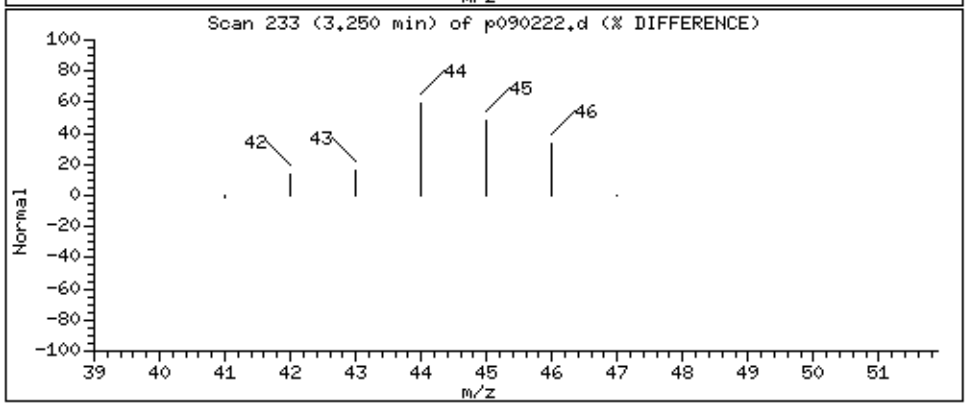












Data File: /chem/msdp.i/02SEP21.b/p090222.d

Date : 02-SEP-2021 22:59

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1L2704

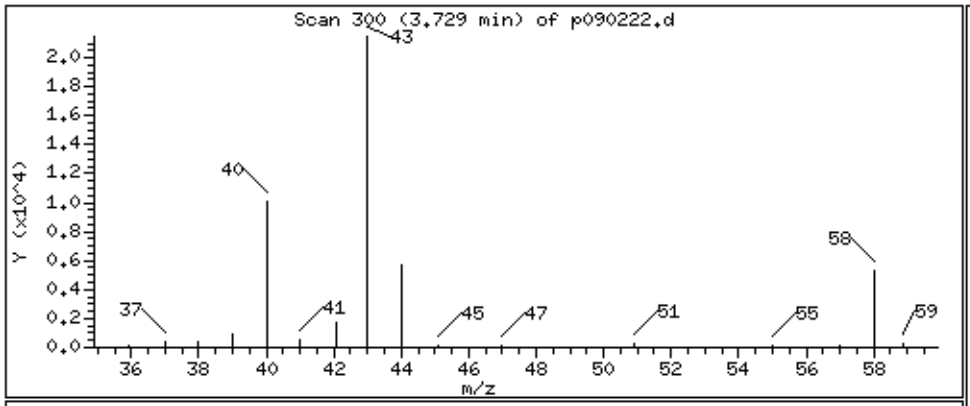
Operator: gh

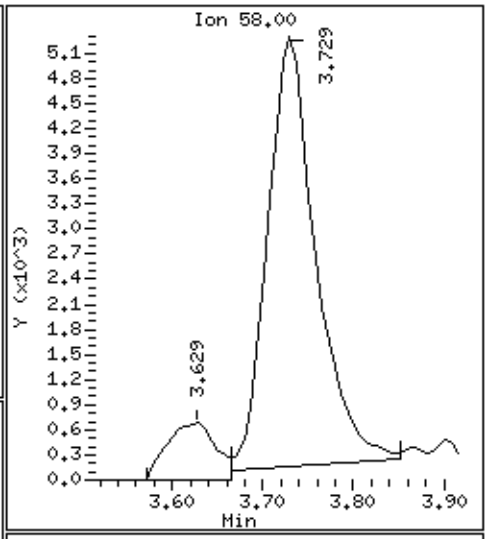
Column phase: RTX-624

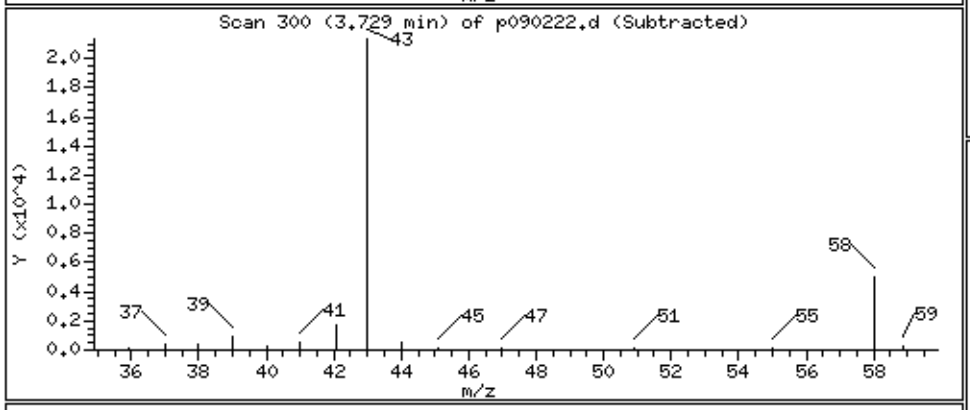
Column diameter: 0.25

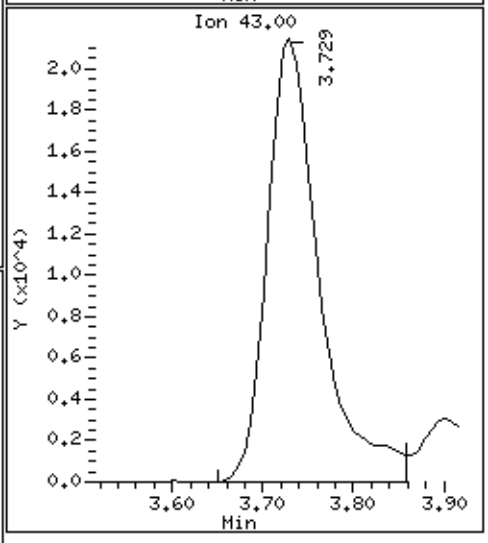
47 Acetone

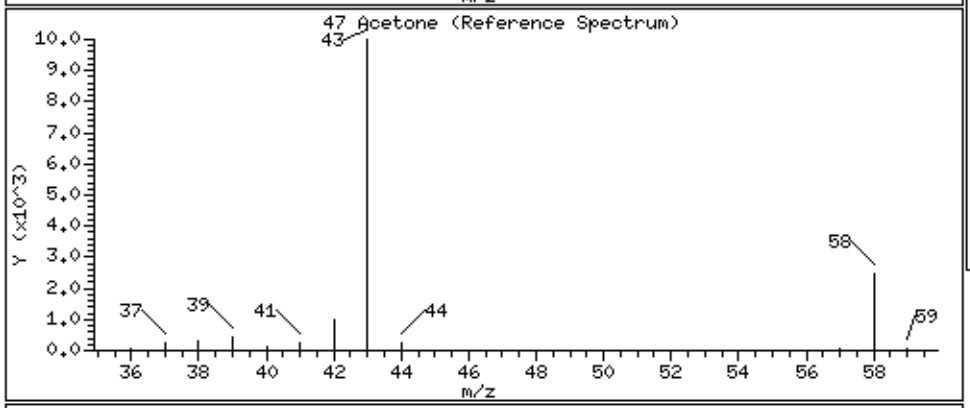
Concentration: 13.336 PPBV

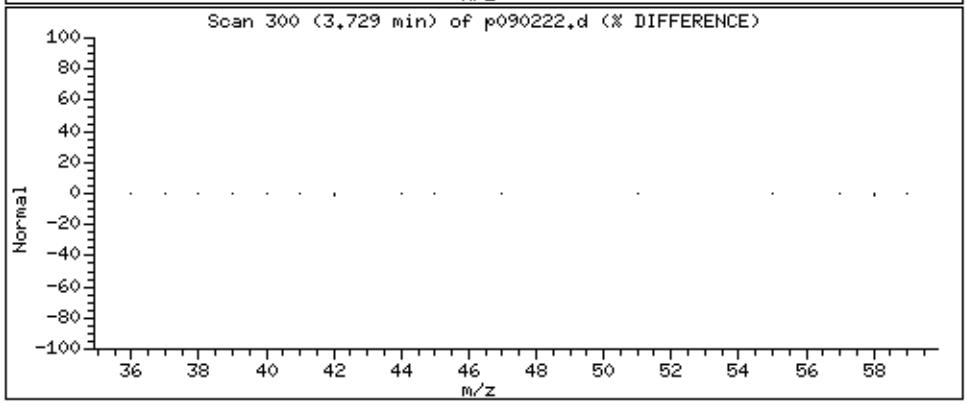












Data File: /chem/msdp.i/02SEP21.b/p090222.d

Date : 02-SEP-2021 22:59

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1L2704

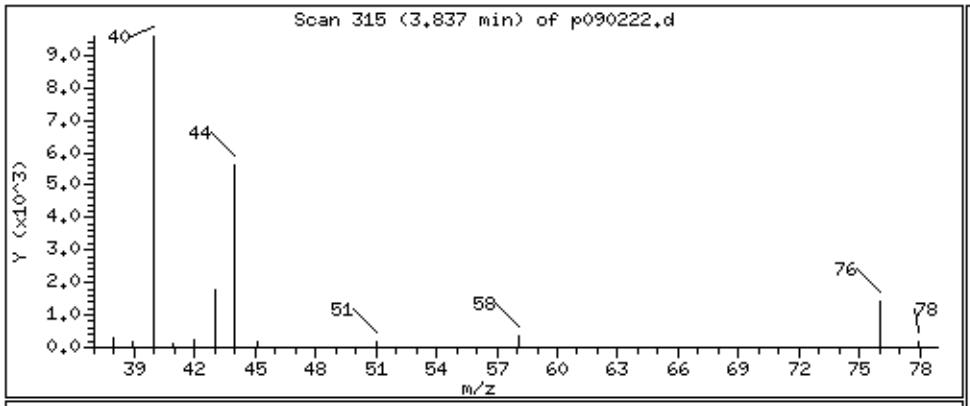
Operator: gh

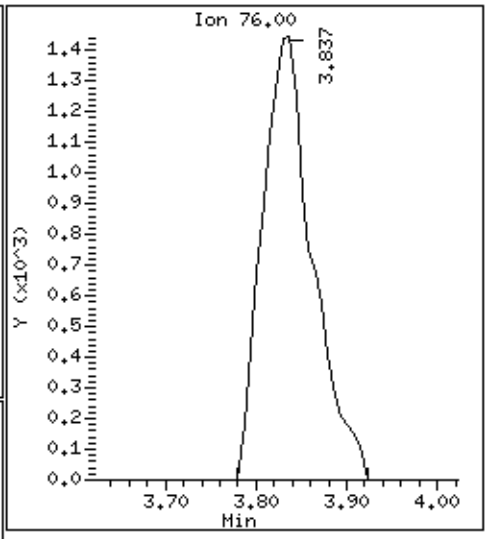
Column phase: RTX-624

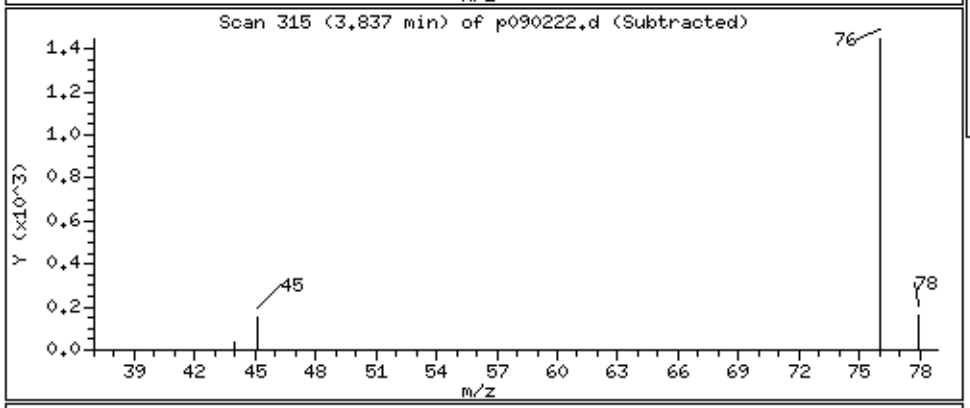
Column diameter: 0.25

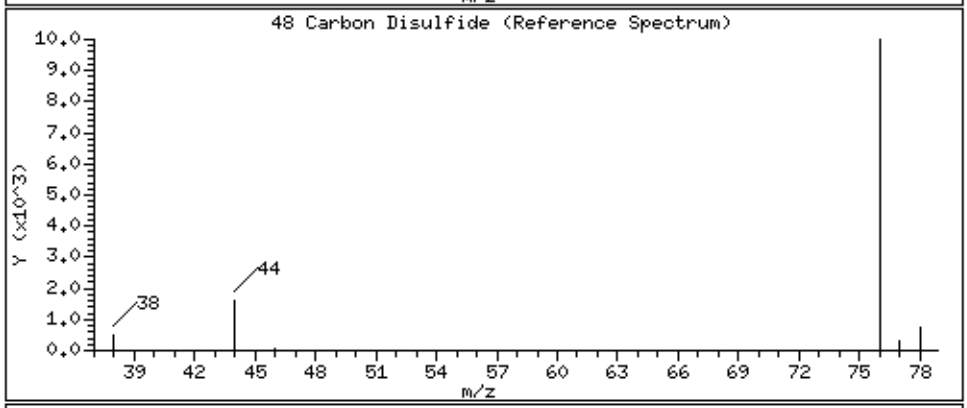
48 Carbon Disulfide

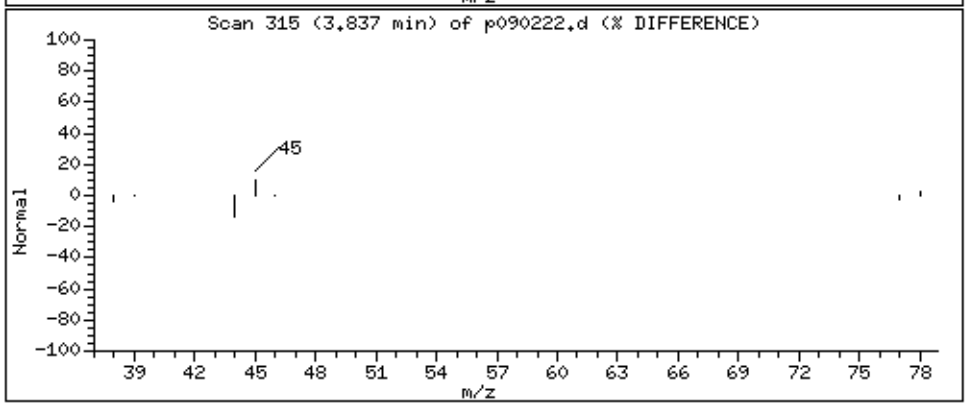
Concentration: 0.9210 PPBV











Data File: /chem/msdp.i/02SEP21.b/p090222.d

Date : 02-SEP-2021 22:59

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1L2704

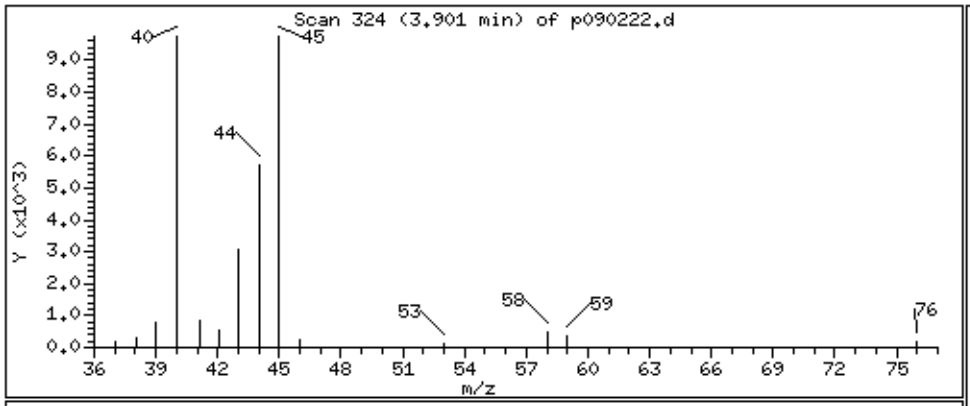
Operator: gh

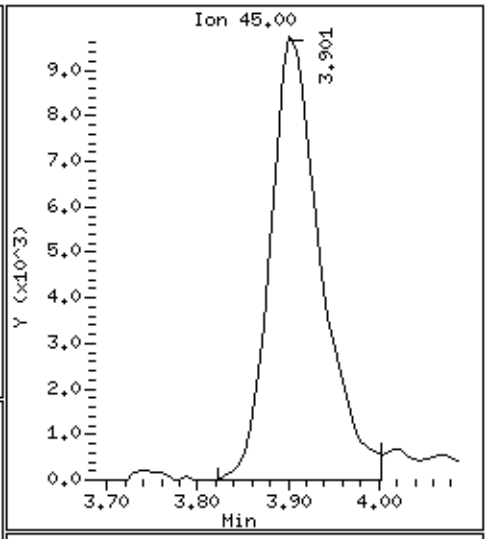
Column phase: RTX-624

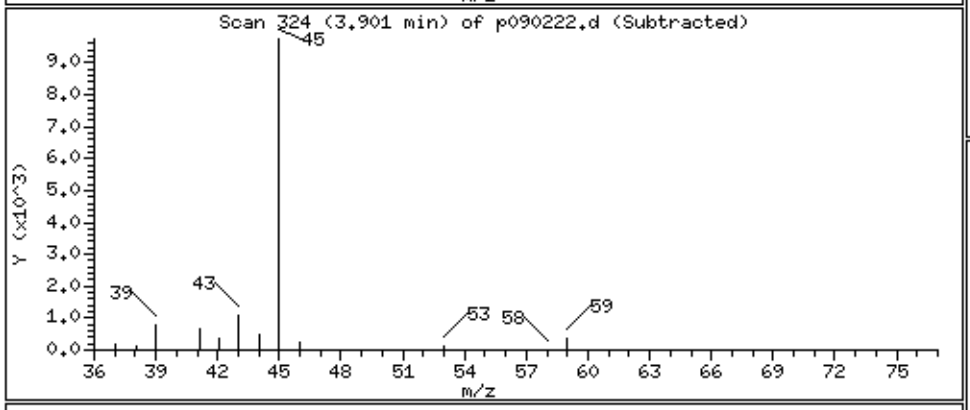
Column diameter: 0.25

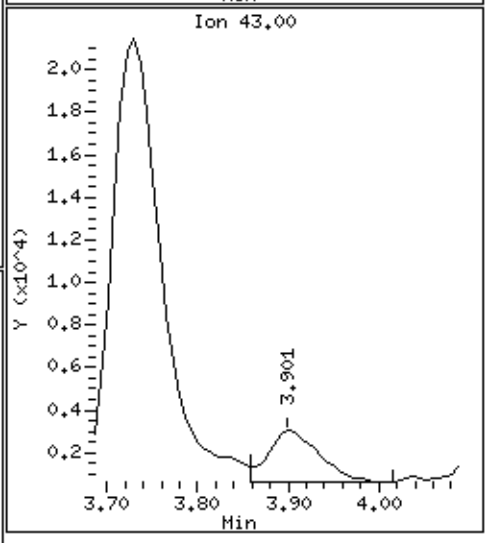
52 2-Propanol

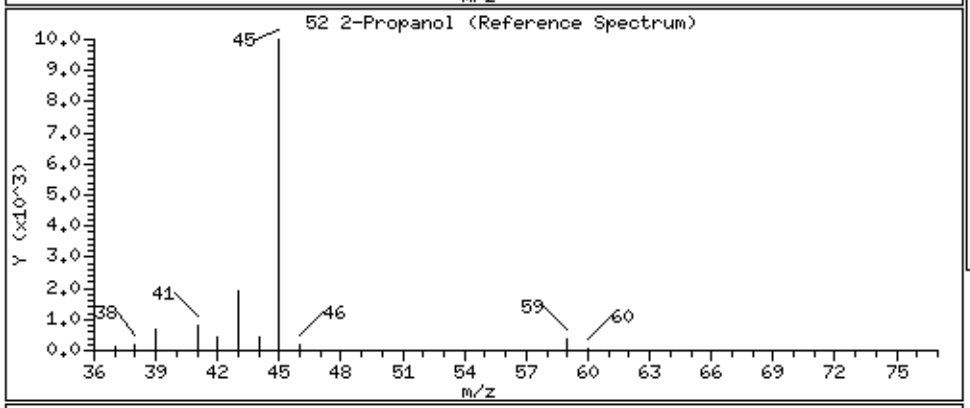
Concentration: 6.626 PPBV

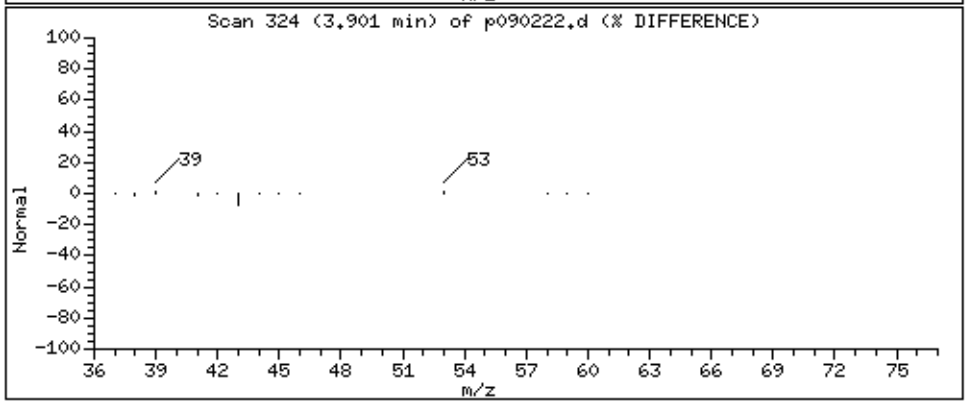












Data File: /chem/msdp.i/02SEP21.b/p090222.d

Page 8

Date : 02-SEP-2021 22:59

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1L2704

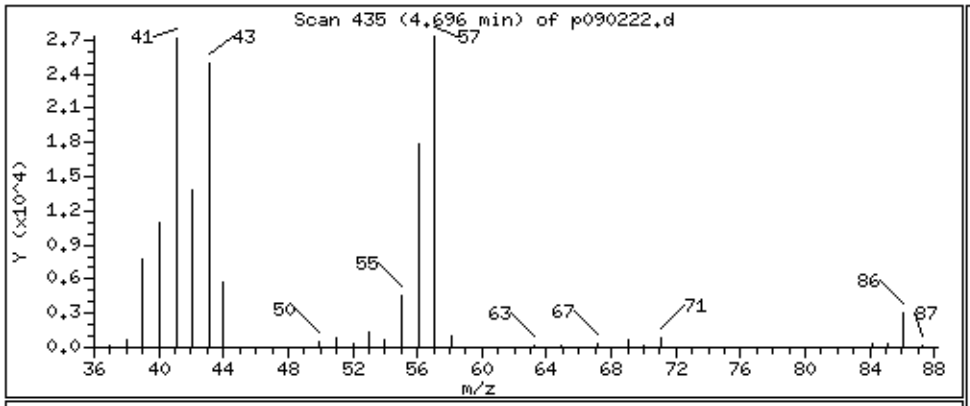
Operator: gh

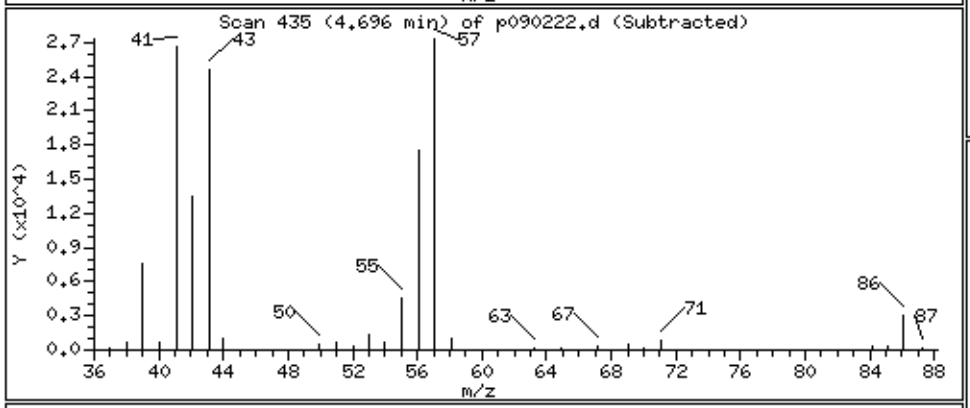
Column phase: RTX-624

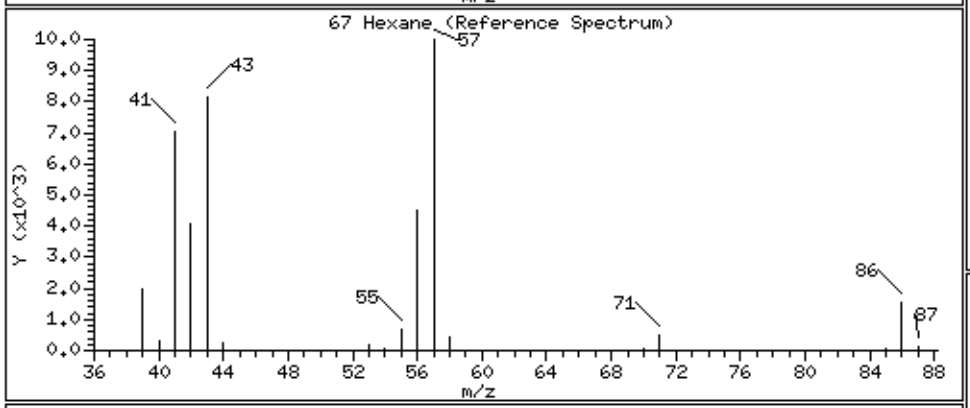
Column diameter: 0.25

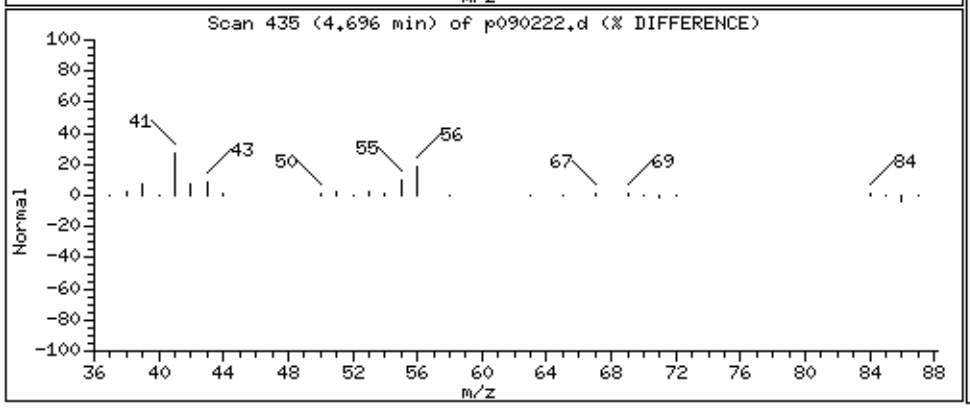
67 Hexane

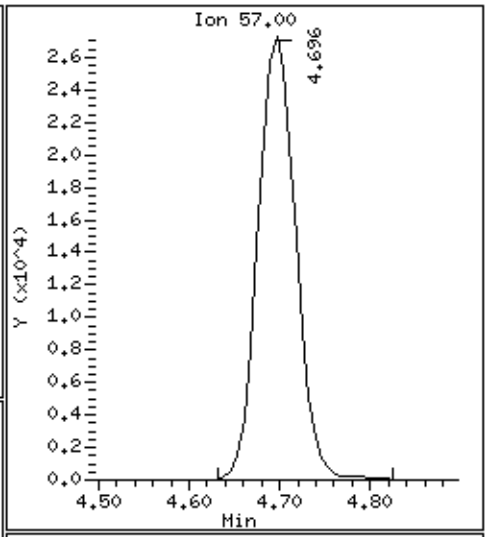
Concentration: 14.739 PPBV

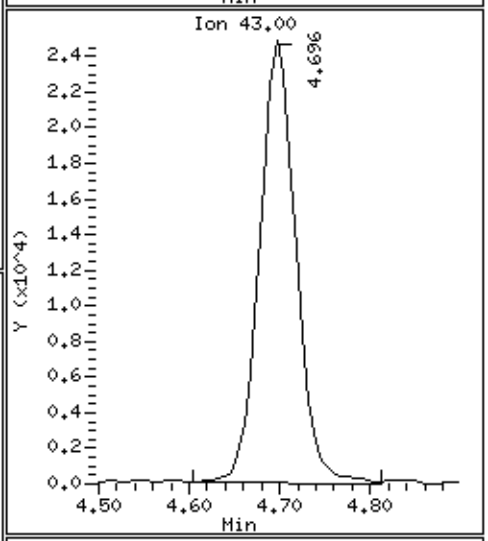


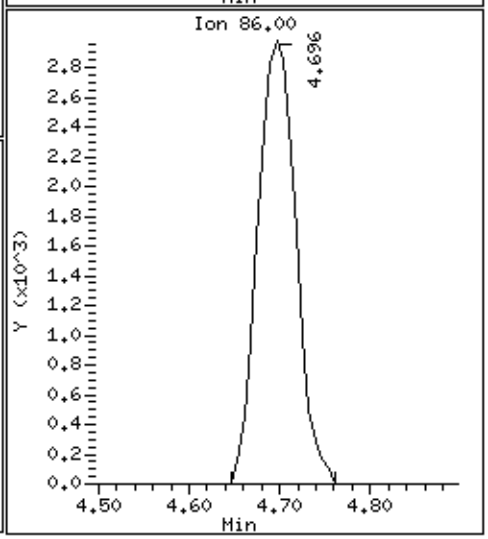












Data File: /chem/msdp.i/02SEP21.b/p090222.d

Date : 02-SEP-2021 22:59

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1L2704

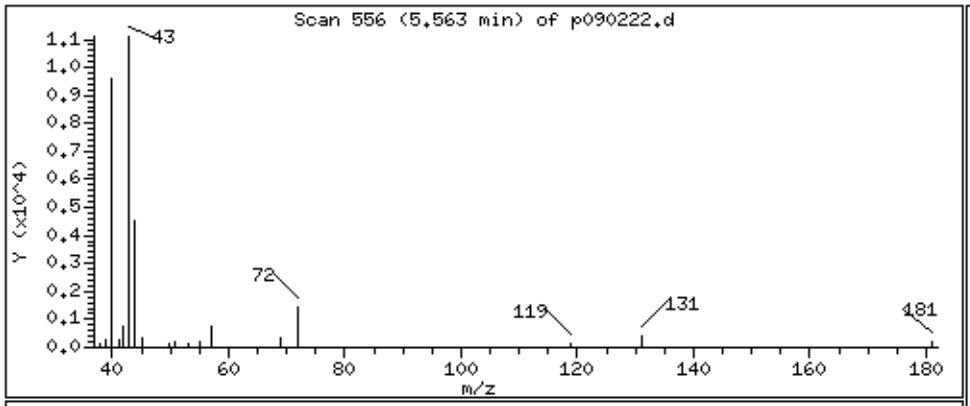
Operator: gh

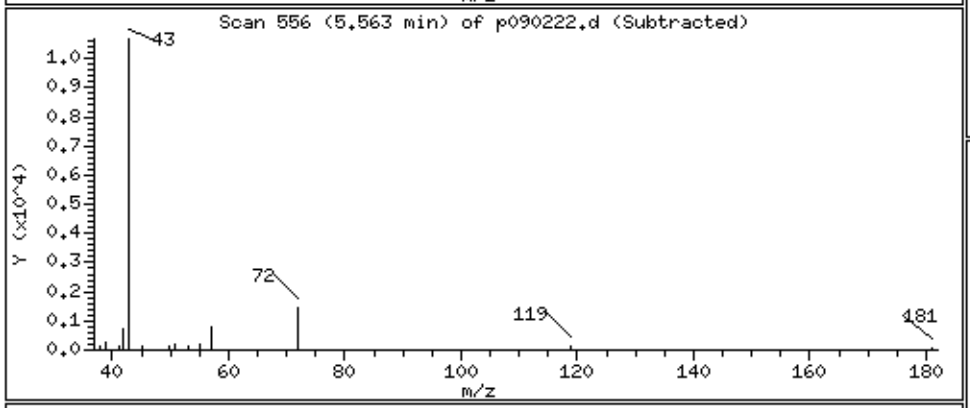
Column phase: RTX-624

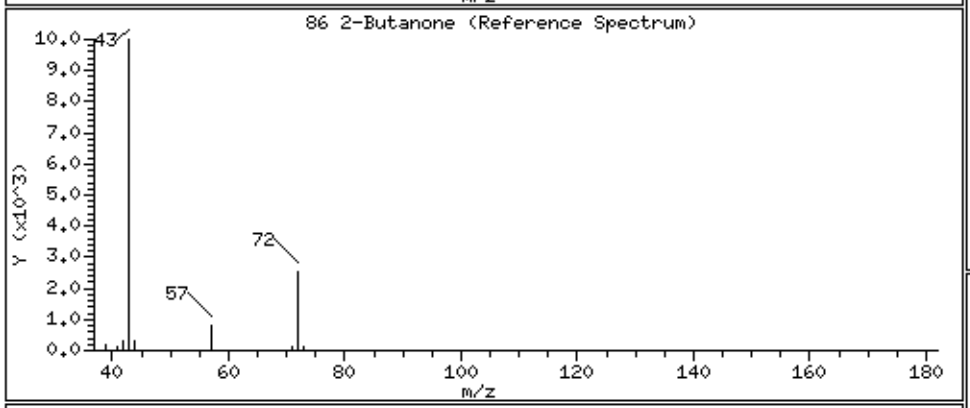
Column diameter: 0.25

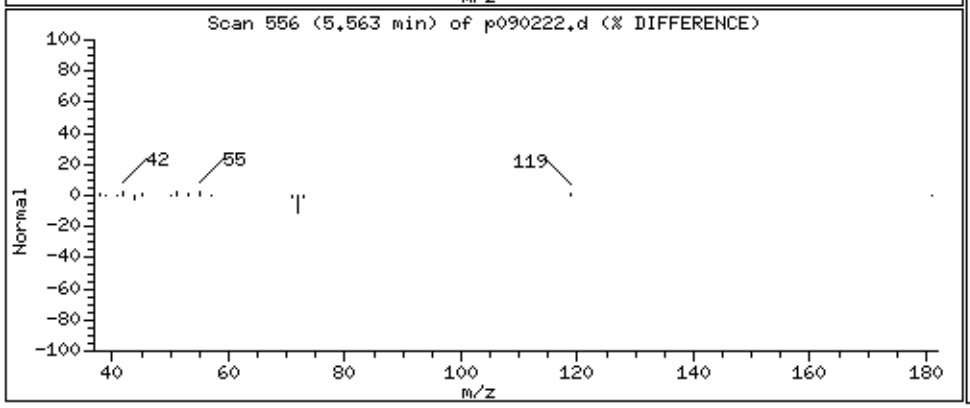
86 2-Butanone

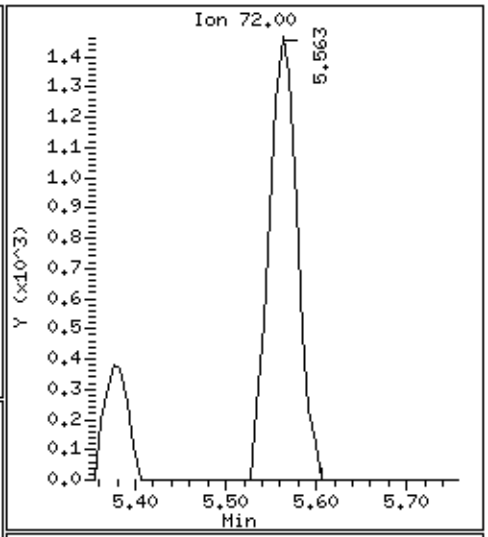
Concentration: 2.596 PPBV

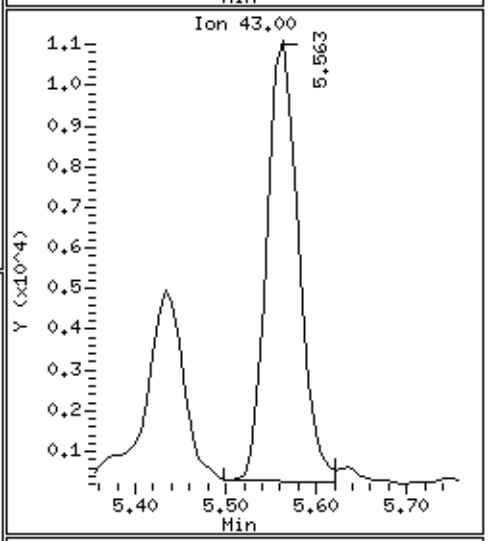


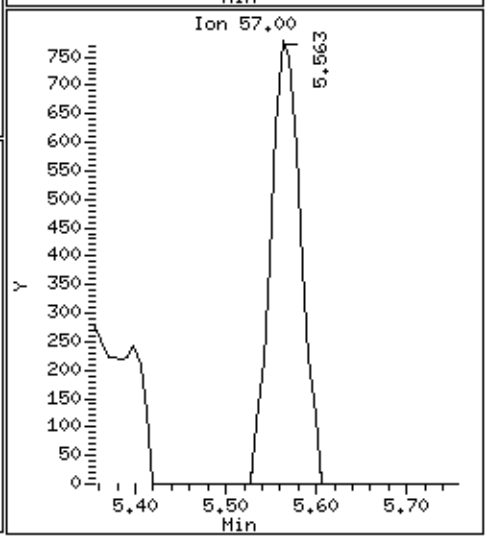












Data File: /chem/msdp.i/02SEP21.b/p090222.d

Date : 02-SEP-2021 22:59

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1L2704

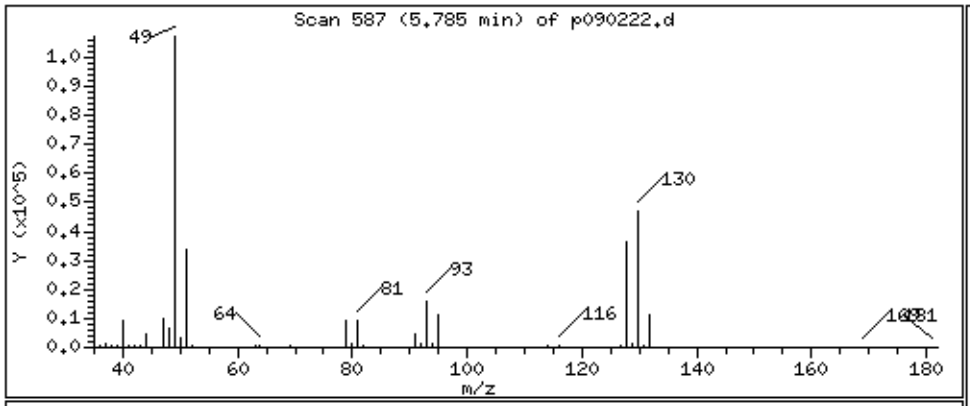
Operator: gh

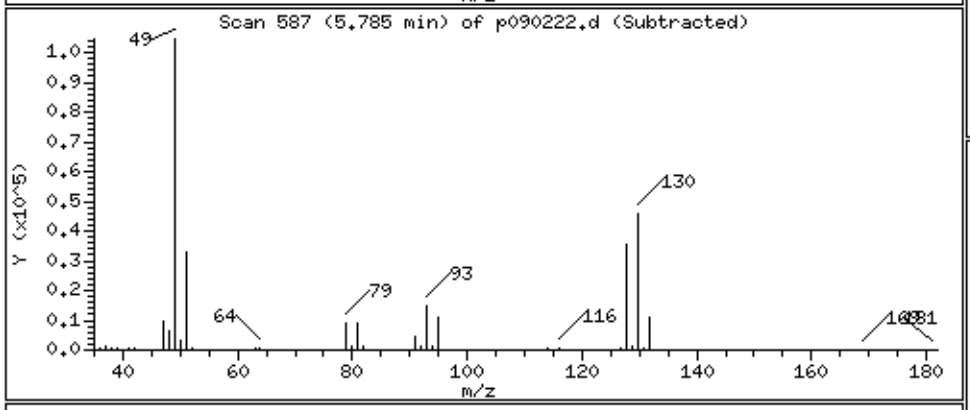
Column phase: RTX-624

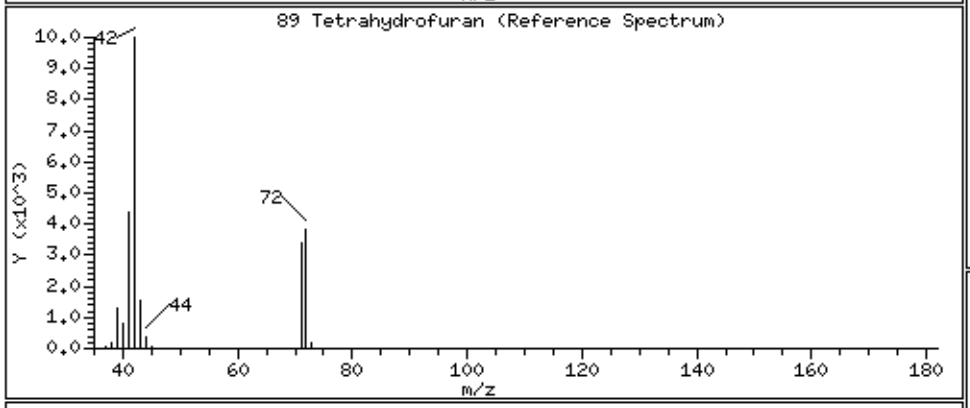
Column diameter: 0.25

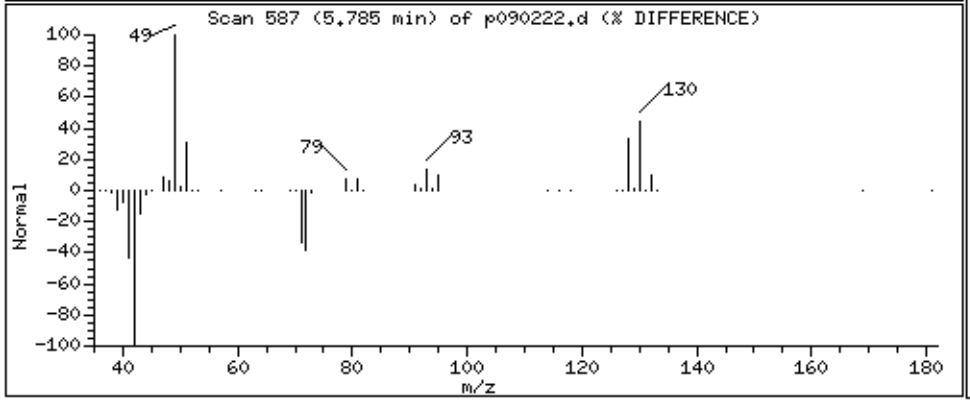
89 Tetrahydrofuran

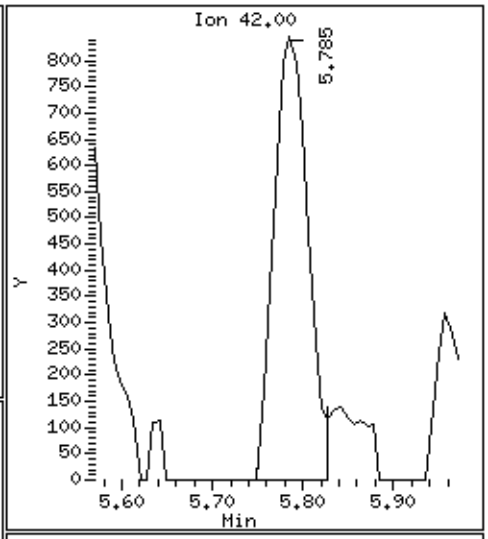
Concentration: 0.5484 PPBV

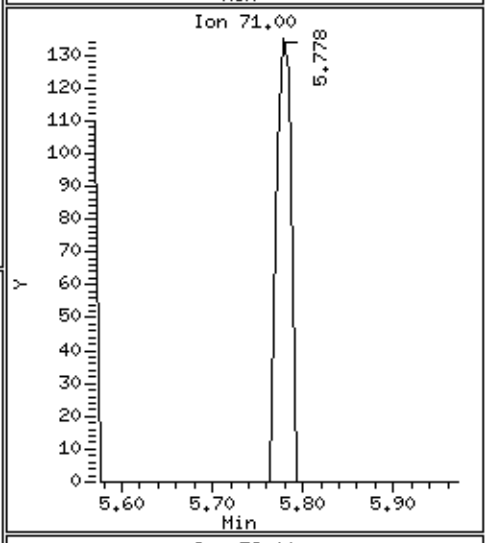


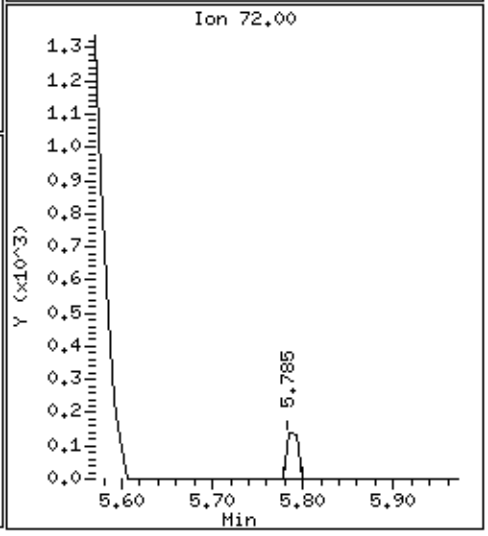












Data File: /chem/msdp.i/02SEP21.b/p090222.d

Date : 02-SEP-2021 22:59

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1L2704

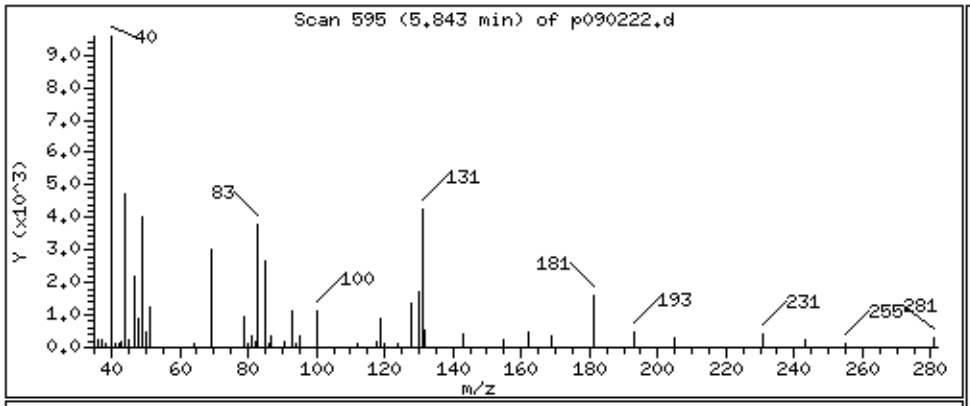
Operator: gh

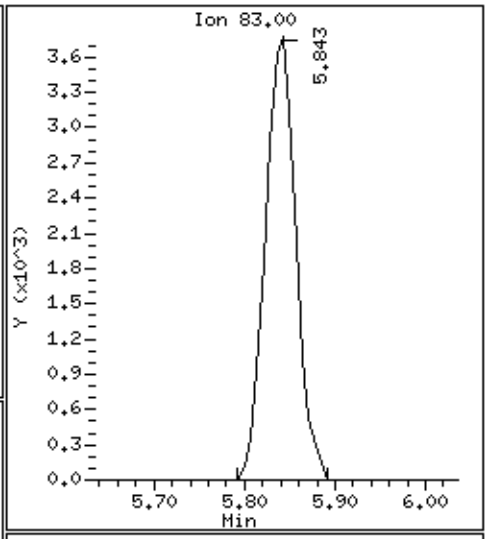
Column phase: RTX-624

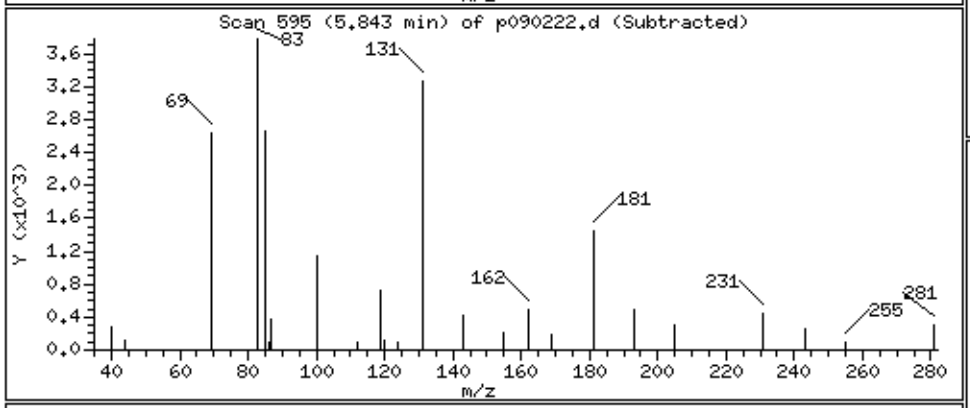
Column diameter: 0.25

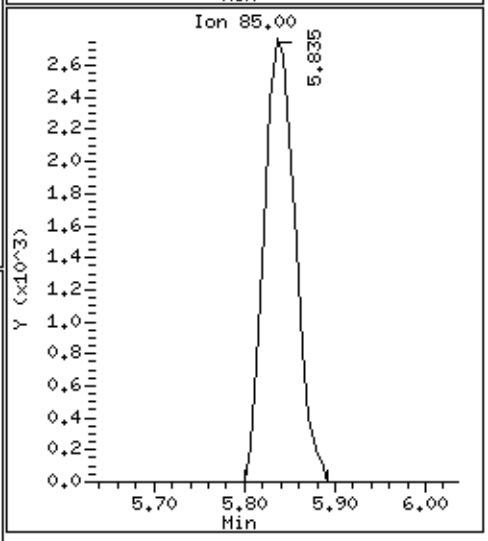
92 Chloroform

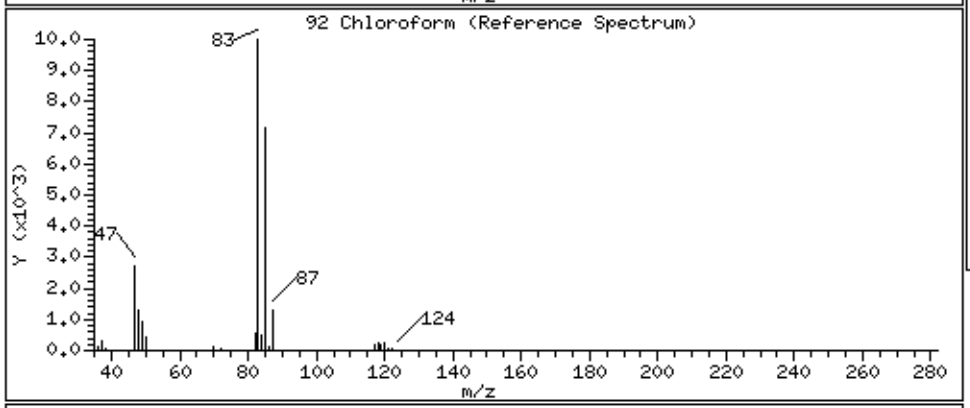
Concentration: 1.872 PPBV

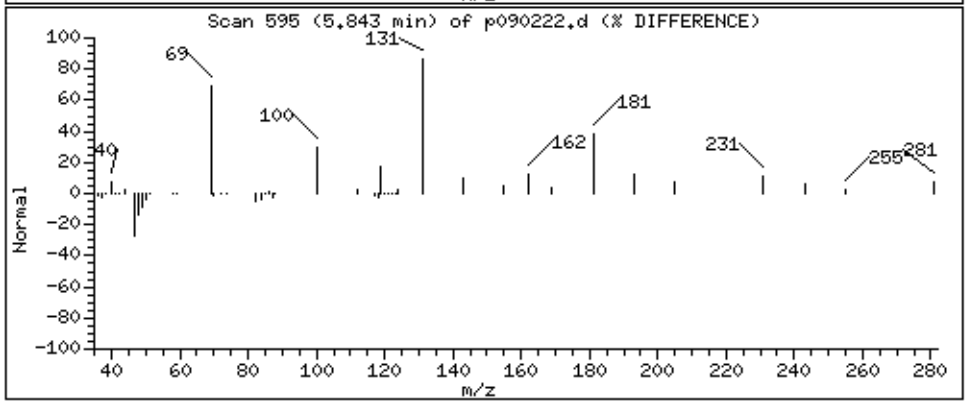












Data File: /chem/msdp.i/02SEP21.b/p090222.d

Date : 02-SEP-2021 22:59

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1L2704

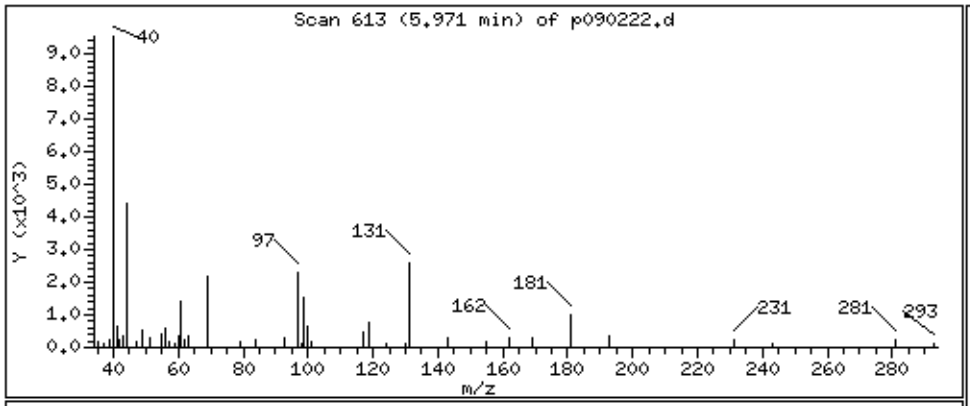
Operator: gh

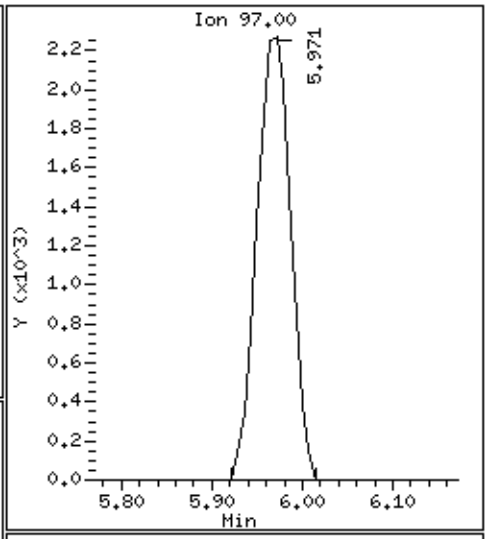
Column phase: RTX-624

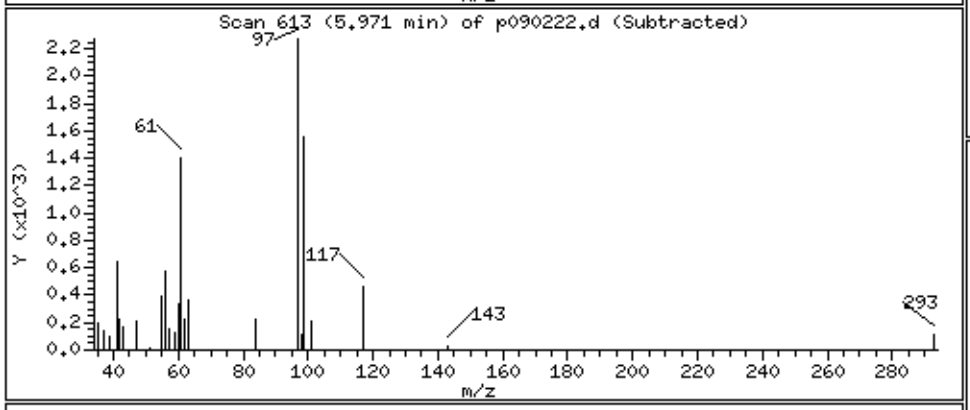
Column diameter: 0.25

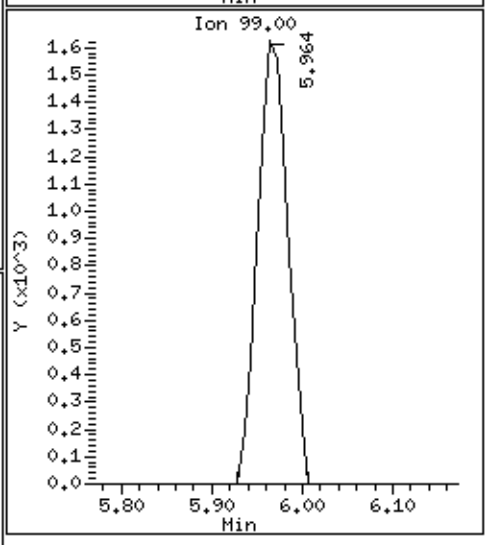
96 1,1,1-Trichloroethane

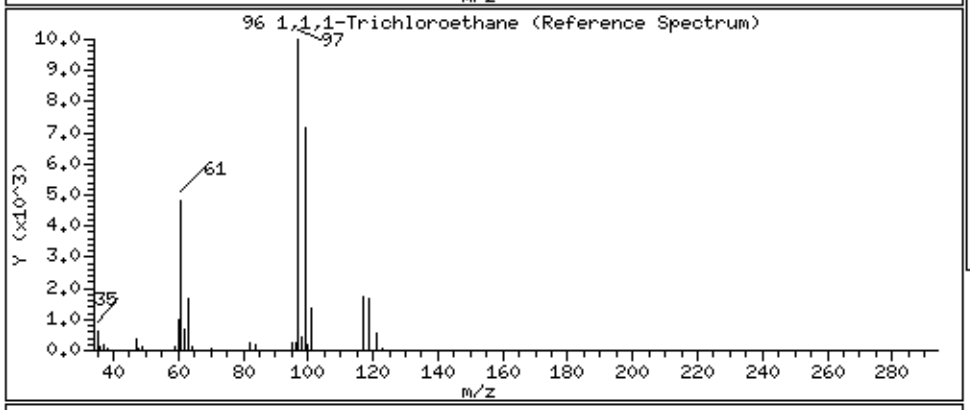
Concentration: 1.107 PPBV

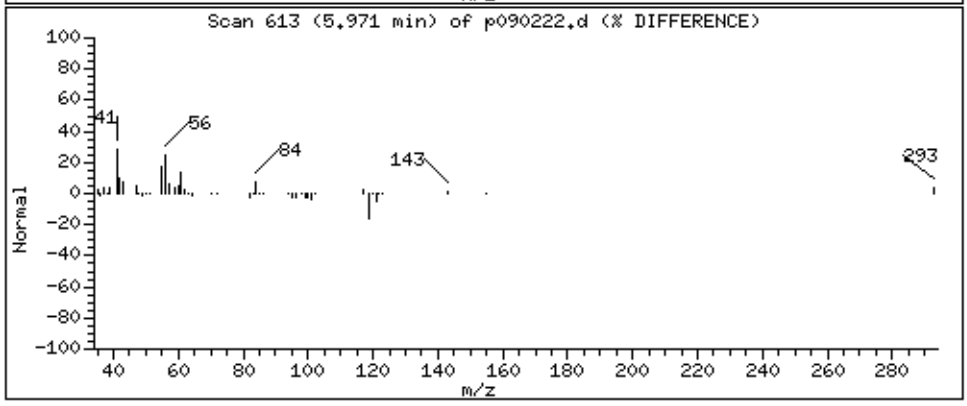












Data File: /chem/msdp.i/02SEP21.b/p090222.d

Date : 02-SEP-2021 22:59

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1L2704

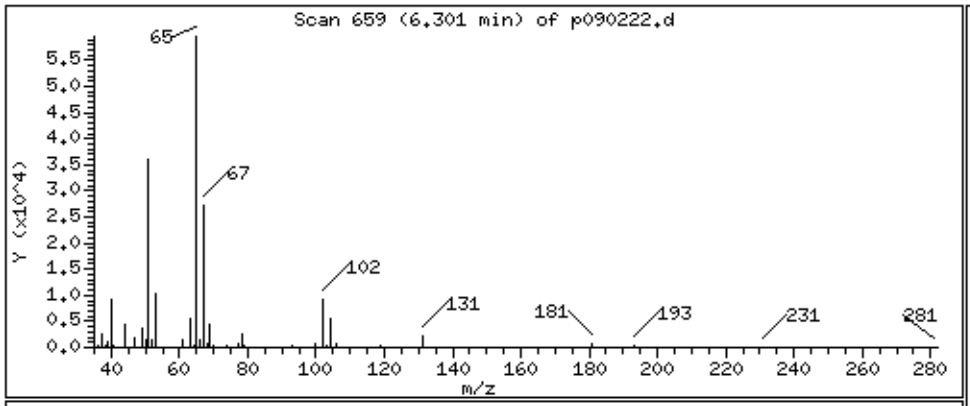
Operator: gh

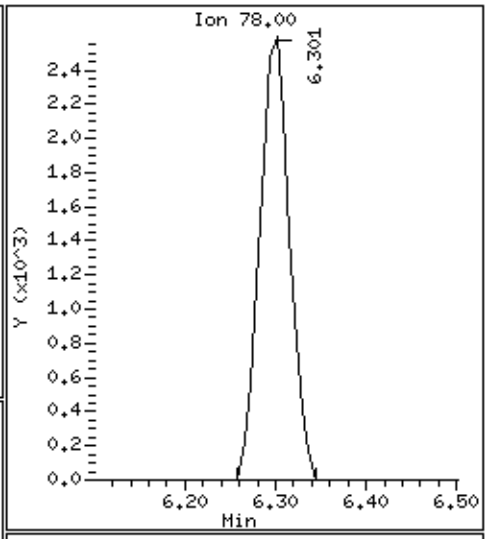
Column phase: RTX-624

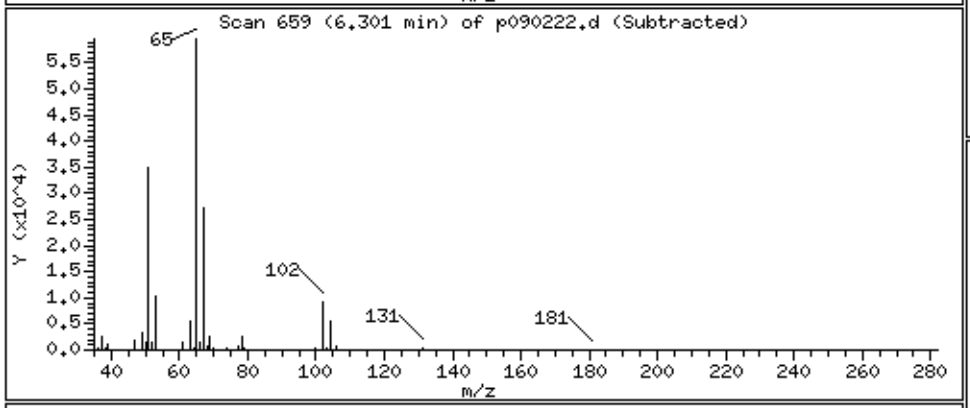
Column diameter: 0.25

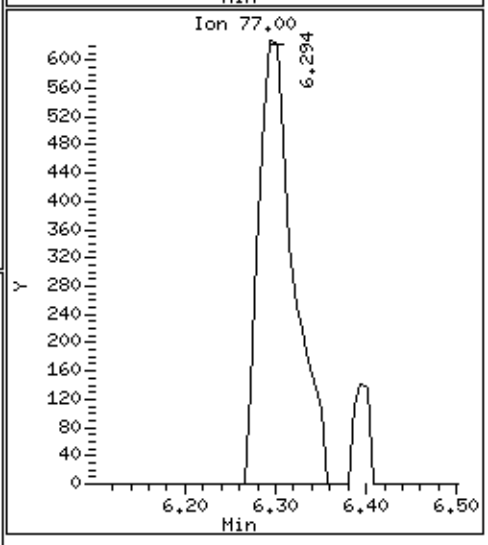
102 Benzene

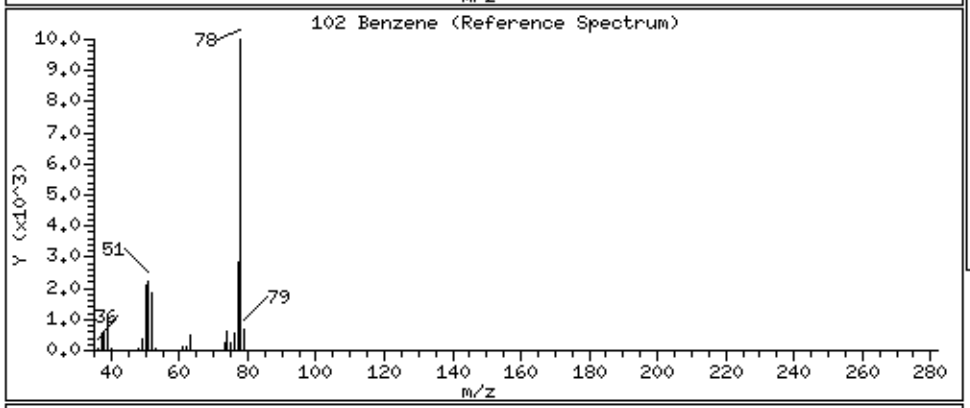
Concentration: 0.9709 PPBV

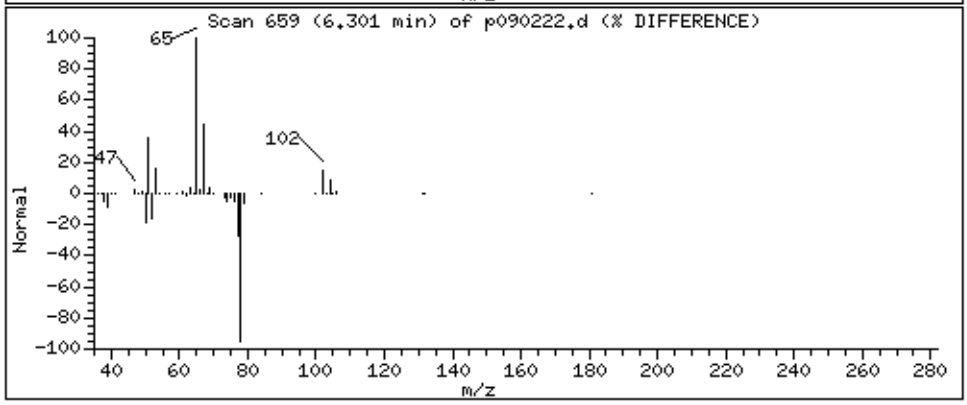












Data File: /chem/msdp.i/02SEP21.b/p090222.d

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Date : 02-SEP-2021 22:59

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1L2704

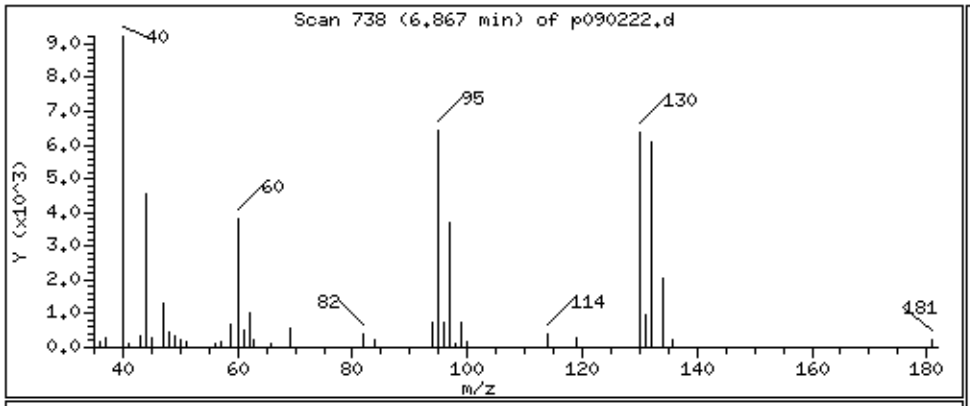
Operator: gh

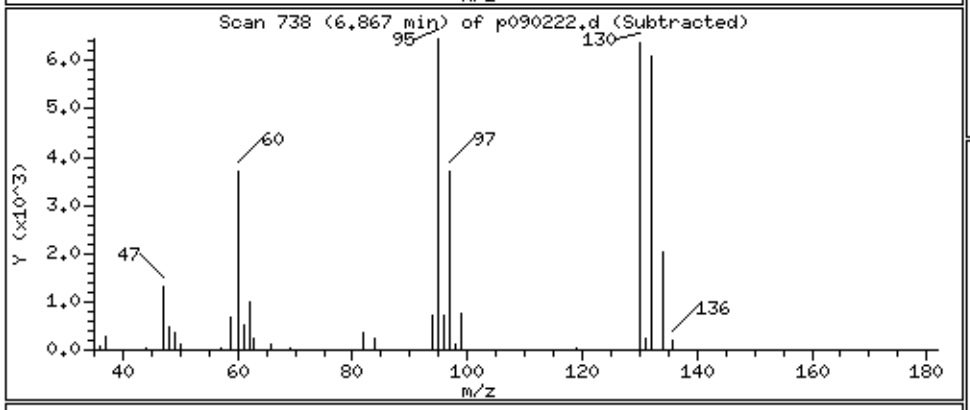
Column phase: RTX-624

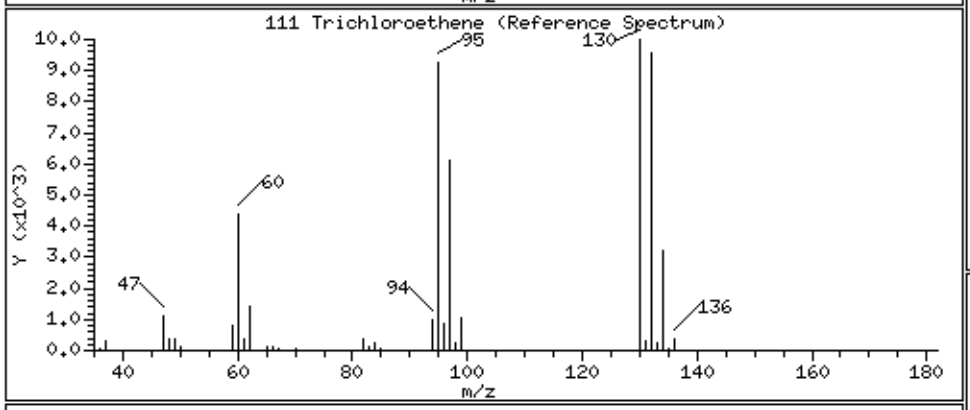
Column diameter: 0.25

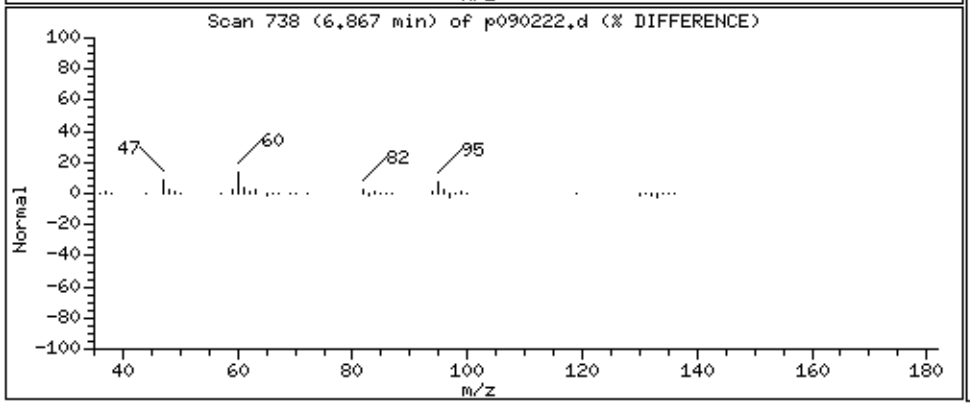
111 Trichloroethene

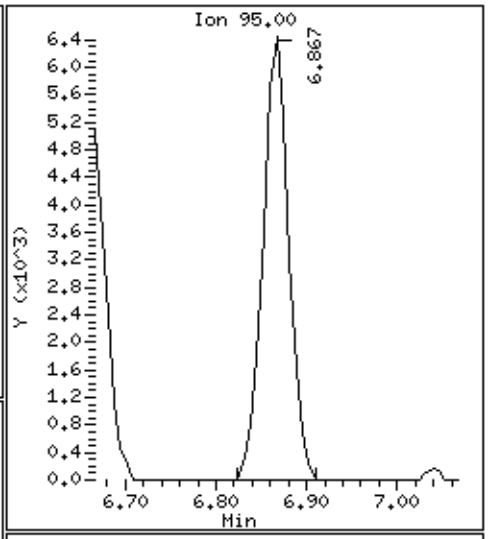
Concentration: 4.290 PPBV

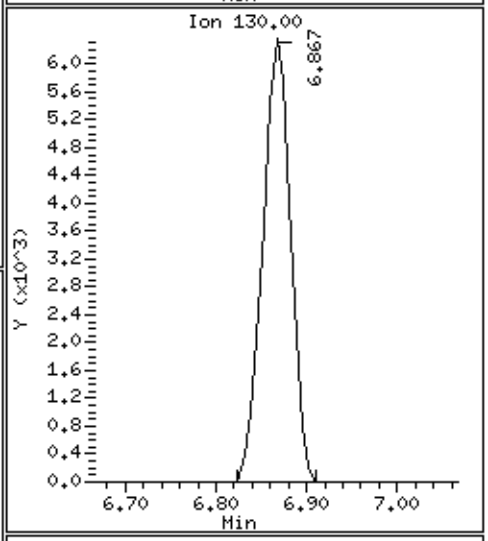


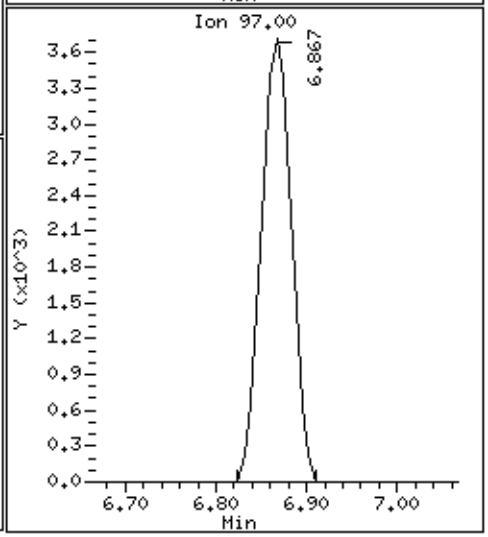












Data File: /chem/msdp.i/02SEP21.b/p090222.d

Date : 02-SEP-2021 22:59

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1L2704

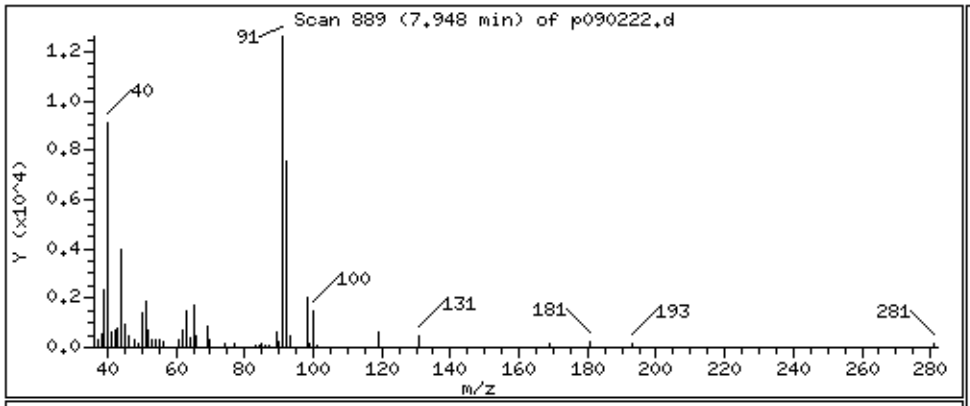
Operator: gh

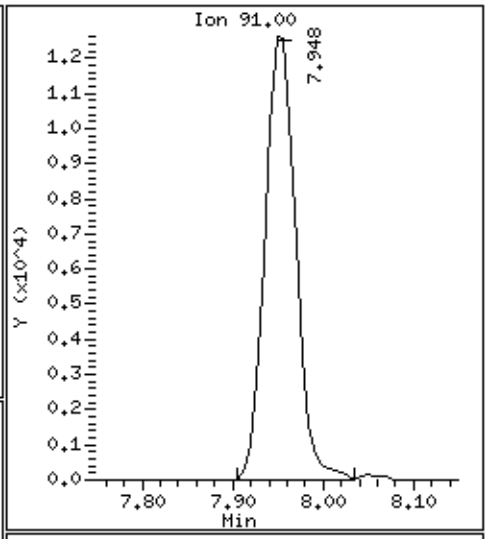
Column phase: RTX-624

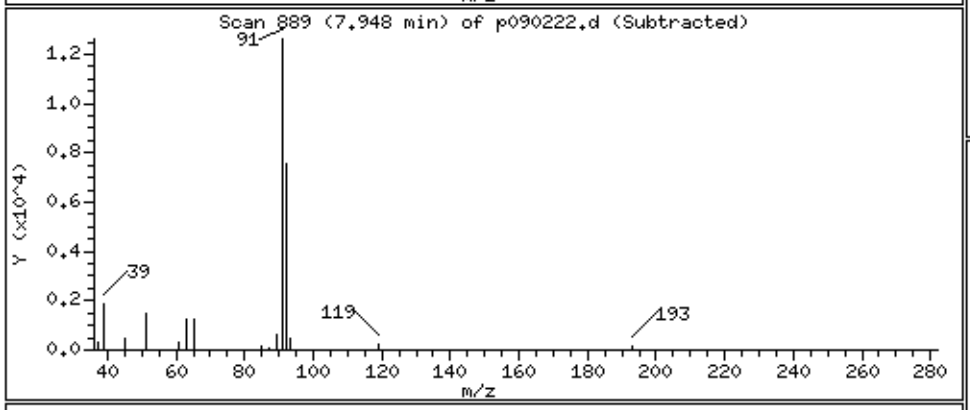
Column diameter: 0.25

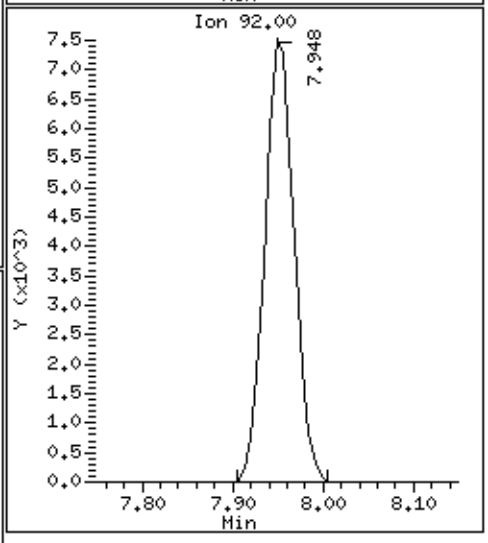
137 Toluene

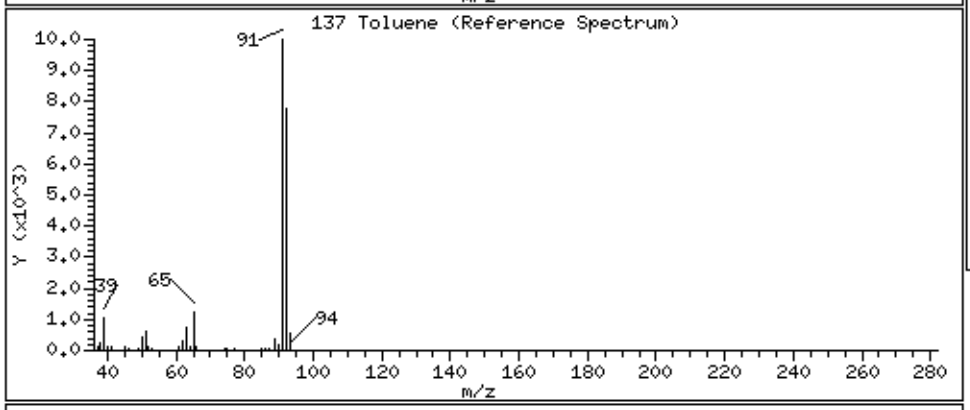
Concentration: 3.550 PPBV

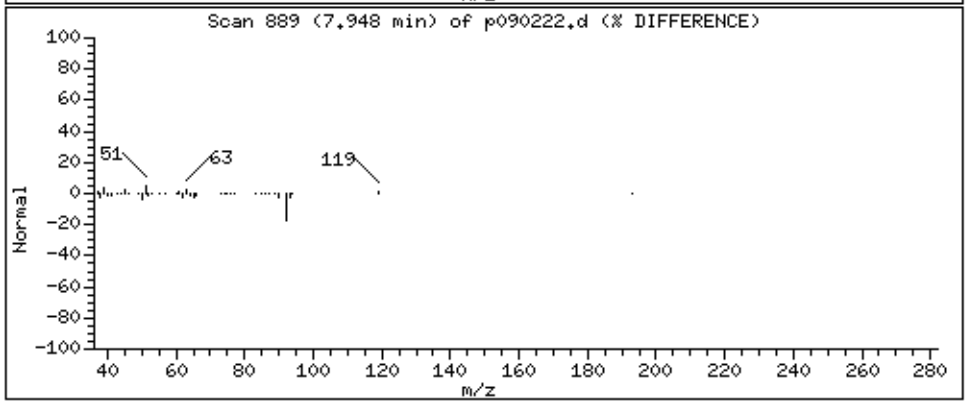












Data File: /chem/msdp.i/02SEP21.b/p090222.d

Date : 02-SEP-2021 22:59

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1L2704

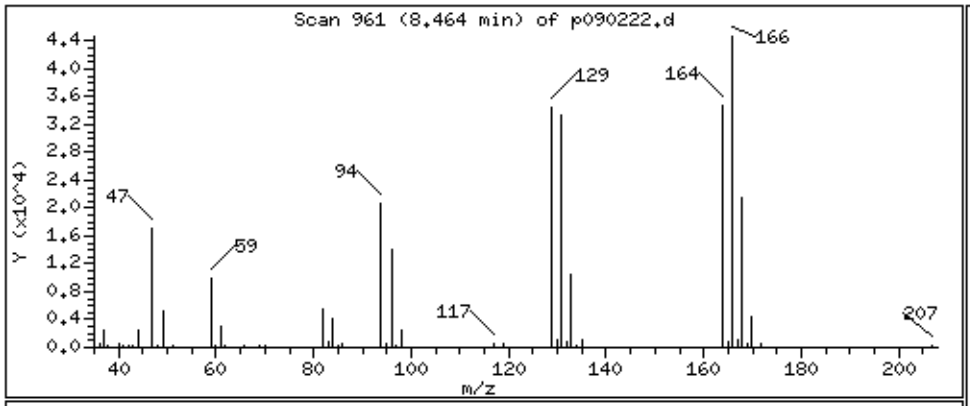
Operator: gh

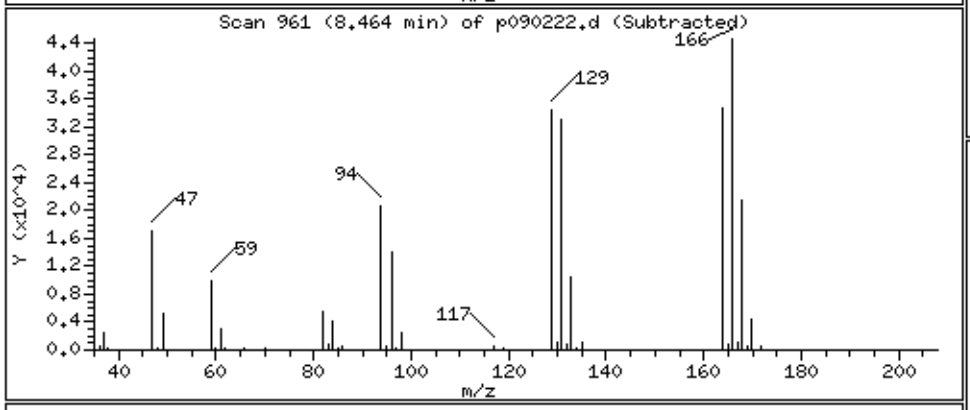
Column phase: RTX-624

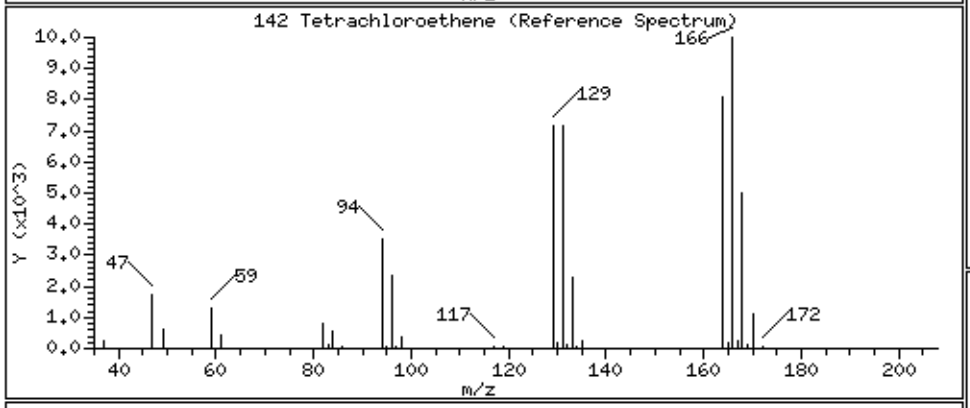
Column diameter: 0.25

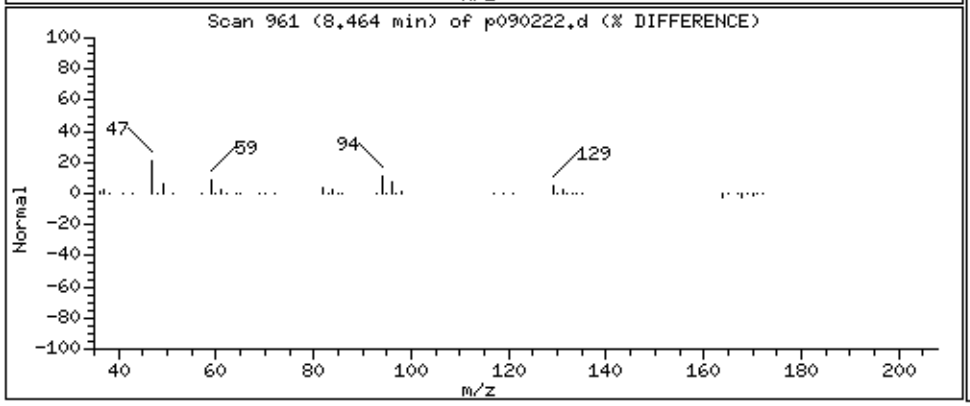
142 Tetrachloroethene

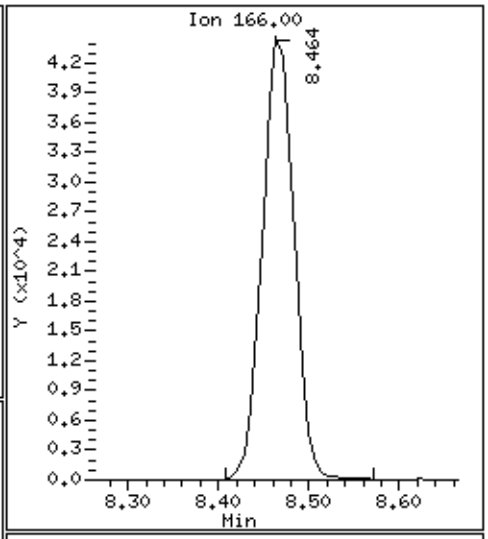
Concentration: 25.299 PPBV

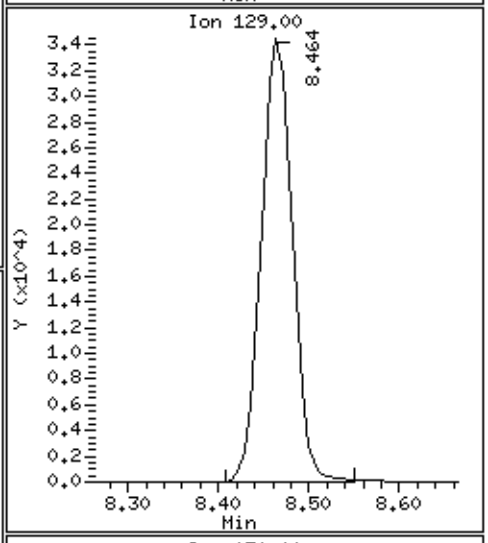


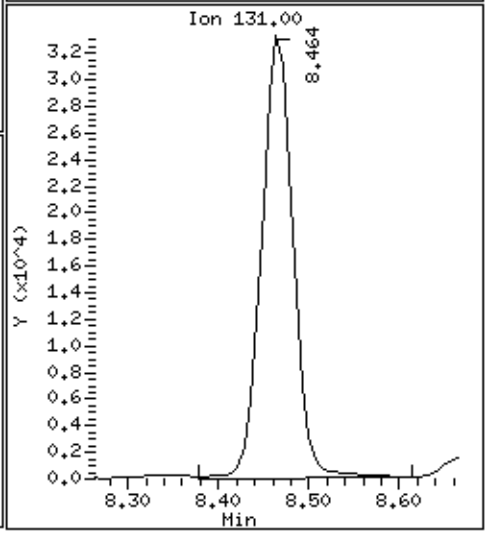












Data File: /chem/msdp.i/02SEP21.b/p090222.d

Date : 02-SEP-2021 22:59

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1L2704

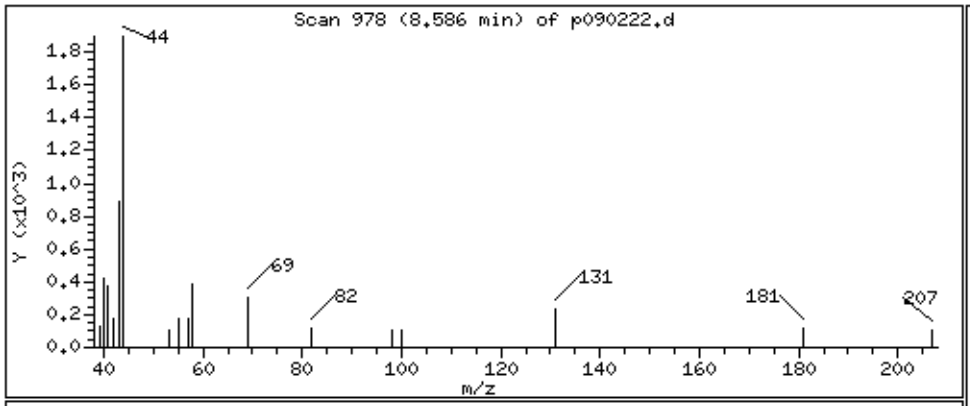
Operator: gh

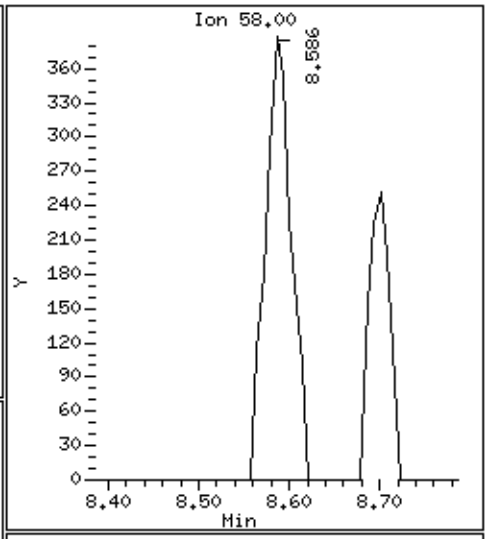
Column phase: RTX-624

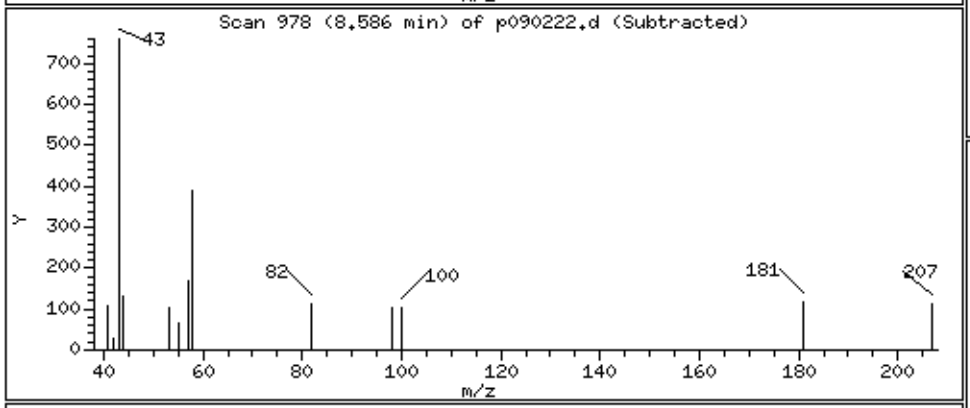
Column diameter: 0.25

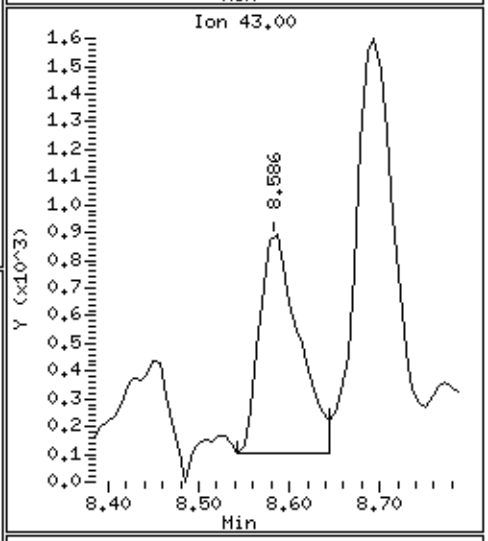
143 2-Hexanone

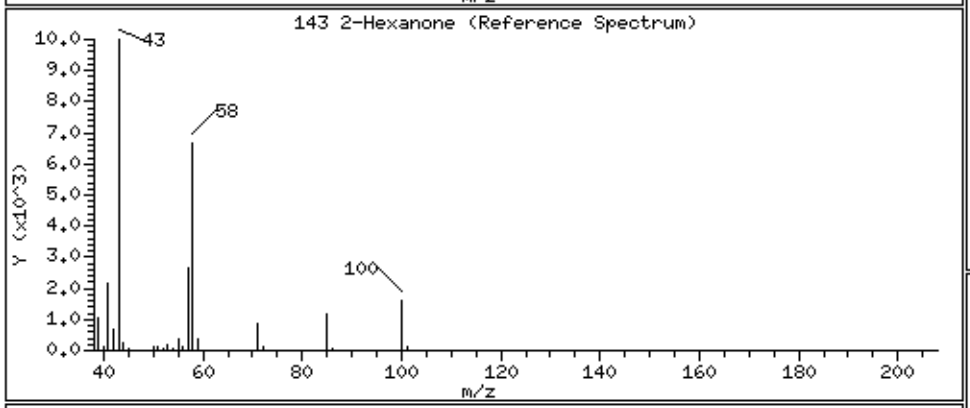
Concentration: 0.1757 PPBV

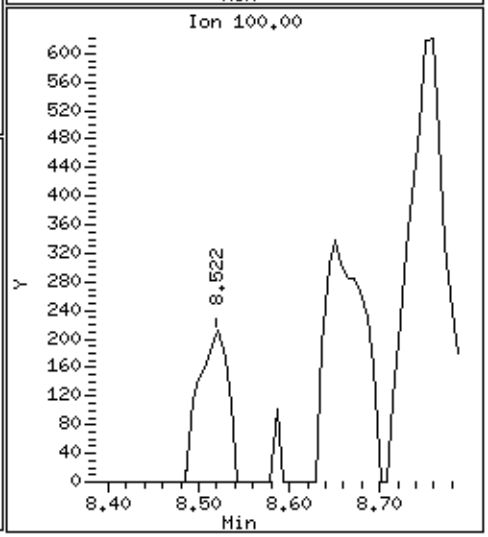


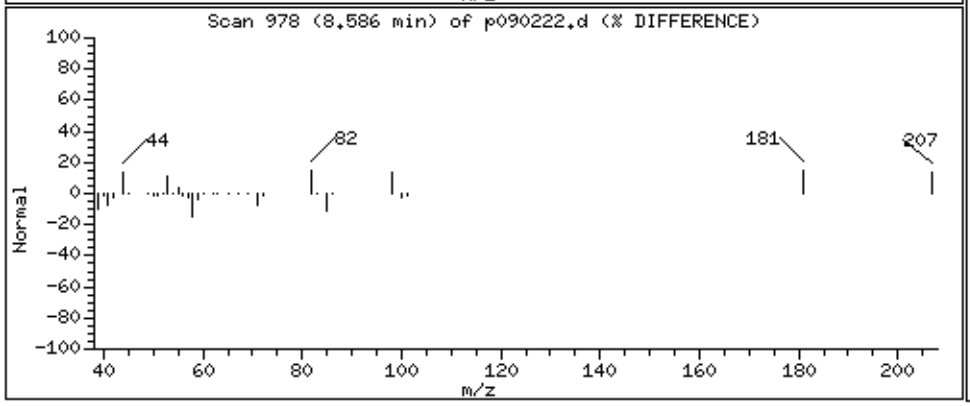












Data File: /chem/msdp.i/02SEP21.b/p090222.d

Date : 02-SEP-2021 22:59

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1L2704

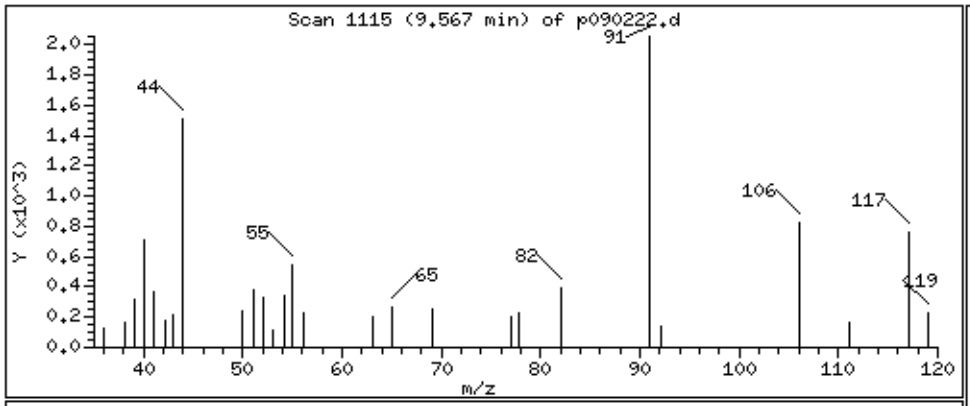
Operator: gh

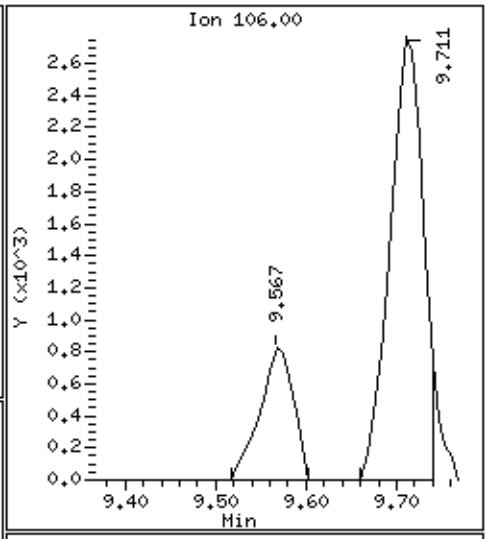
Column phase: RTX-624

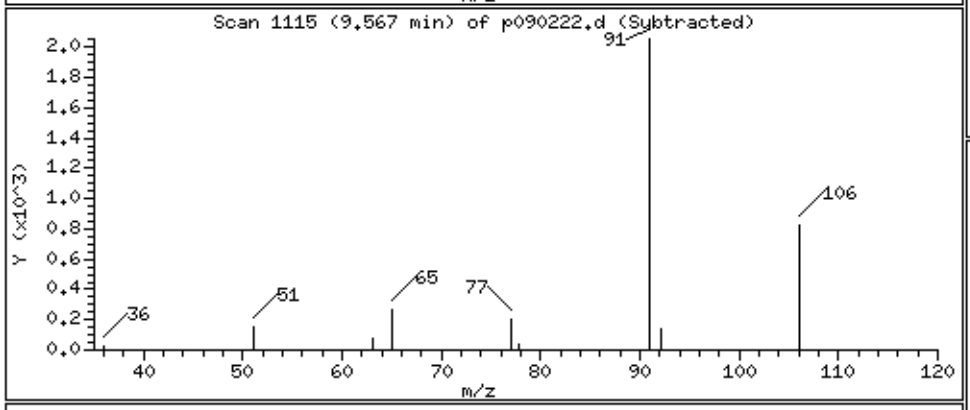
Column diameter: 0.25

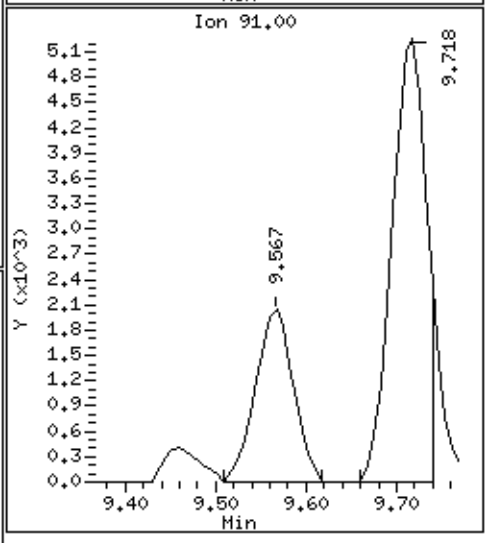
155 Ethyl Benzene

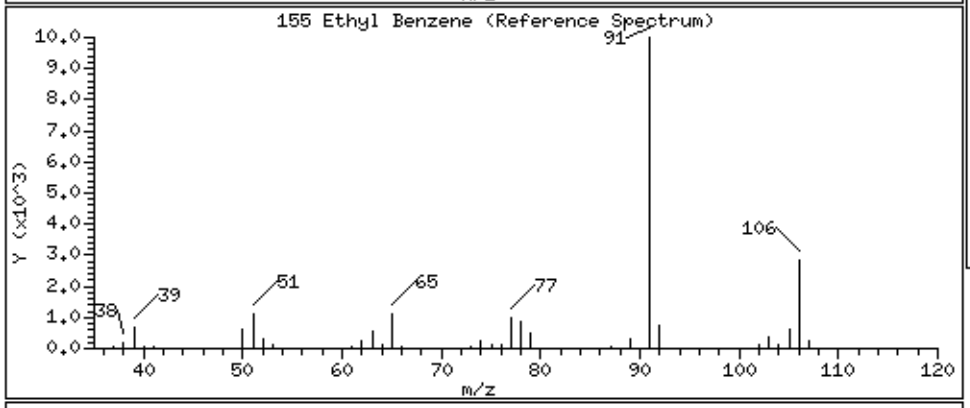
Concentration: 0.5413 PPBV

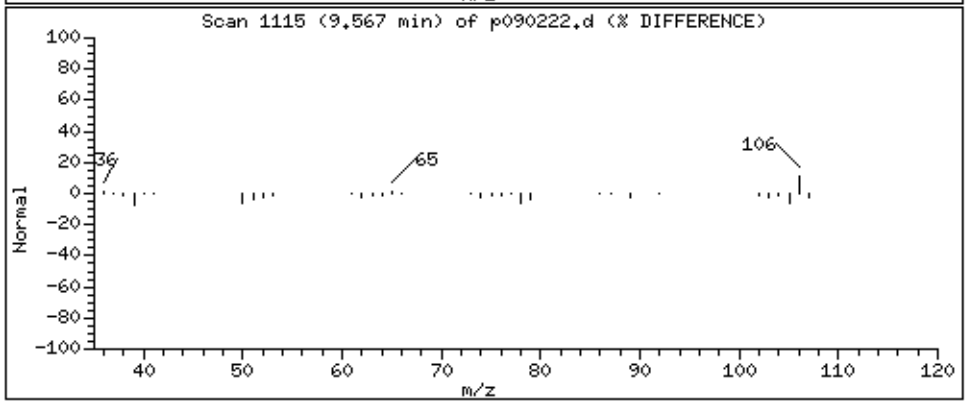












Data File: /chem/msdp.i/02SEP21.b/p090222.d

Page 19

Date : 02-SEP-2021 22:59

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1L2704

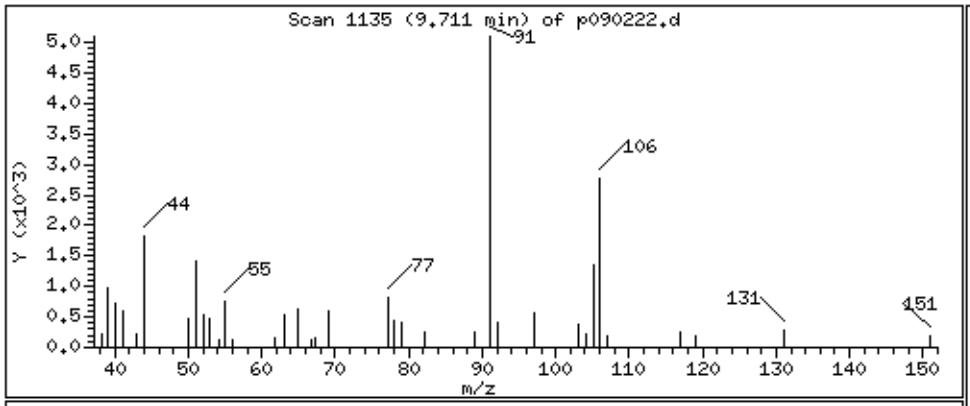
Operator: gh

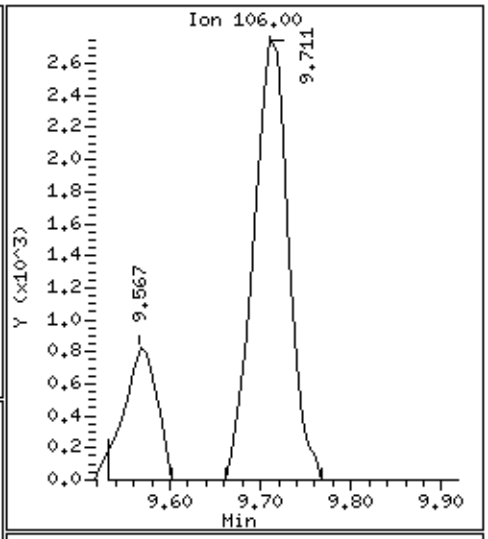
Column phase: RTX-624

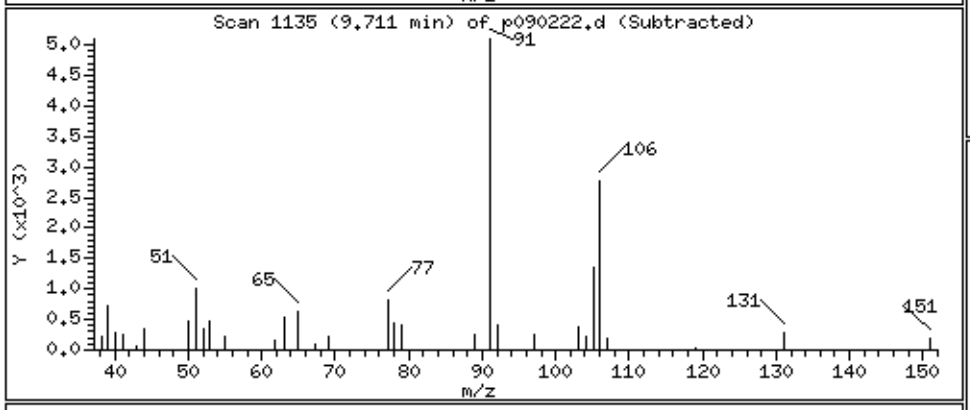
Column diameter: 0.25

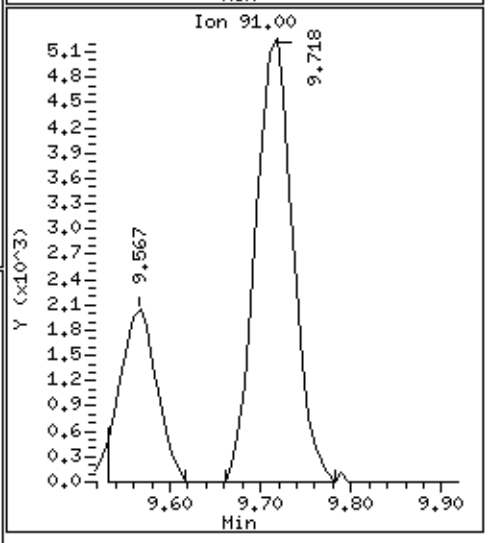
158 m,p-Xylene

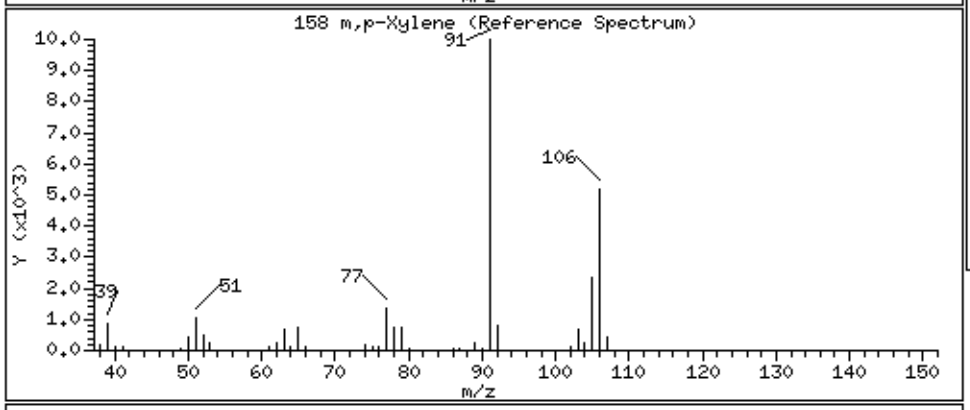
Concentration: 1.501 PPBV

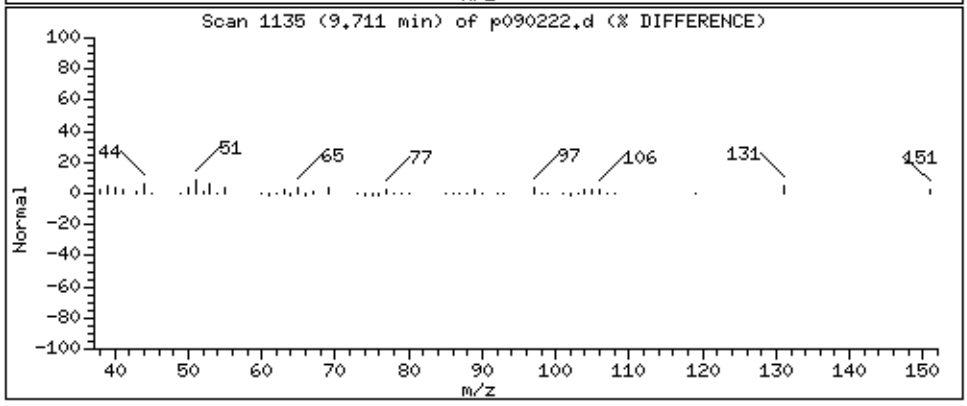












Data File: /chem/msdp.i/02SEP21.b/p090222.d

Date : 02-SEP-2021 22:59

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1L2704

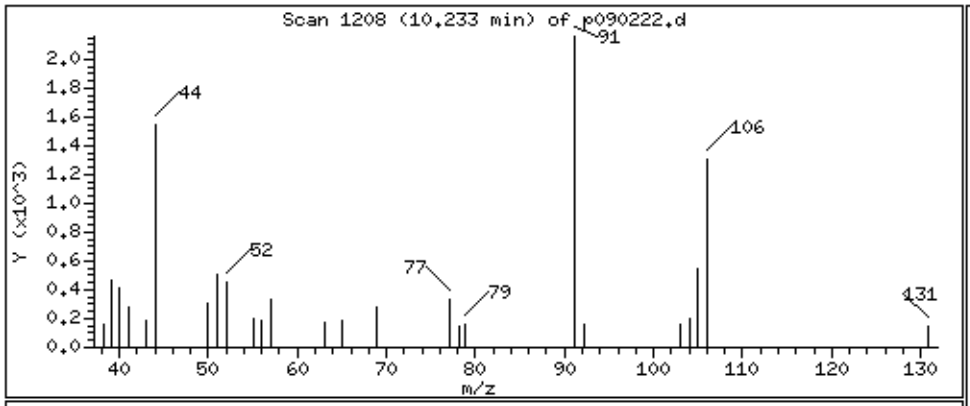
Operator: gh

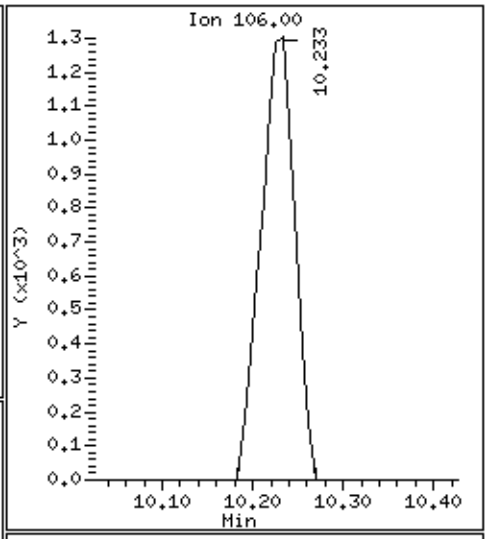
Column phase: RTX-624

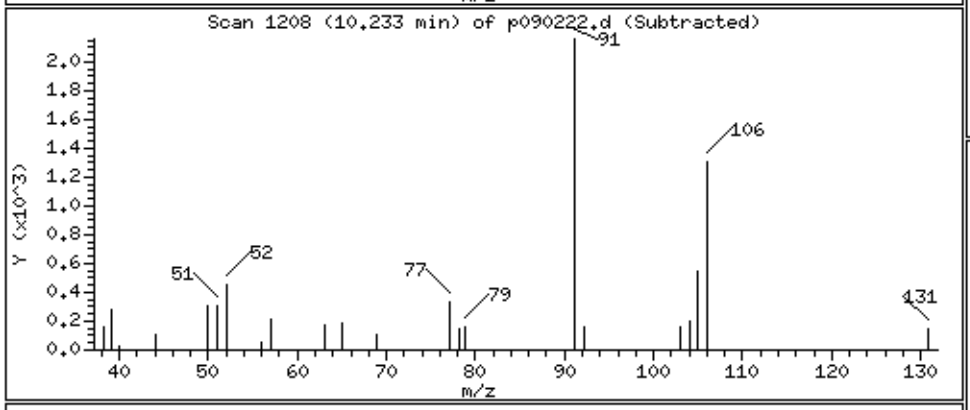
Column diameter: 0.25

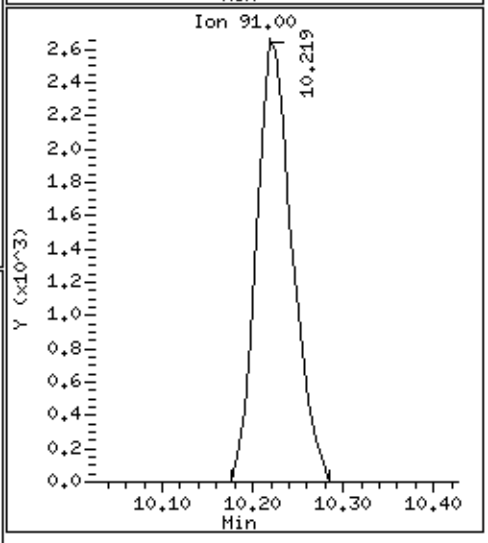
164 o-Xylene

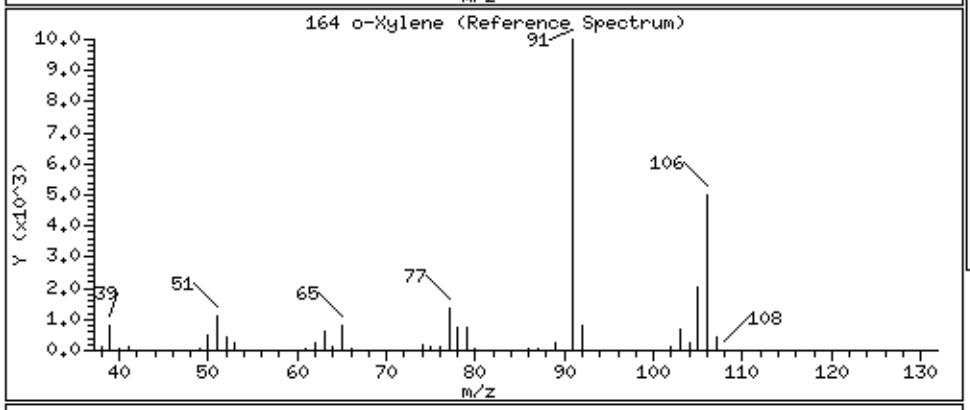
Concentration: 0.7219 PPBV

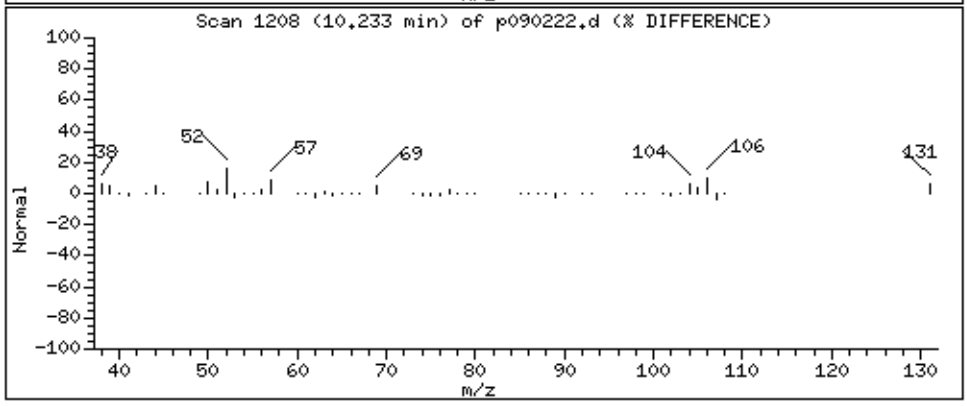












Data File: /chem/msdp.i/02SEP21.b/p090222.d

Date : 02-SEP-2021 22:59

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1L2704

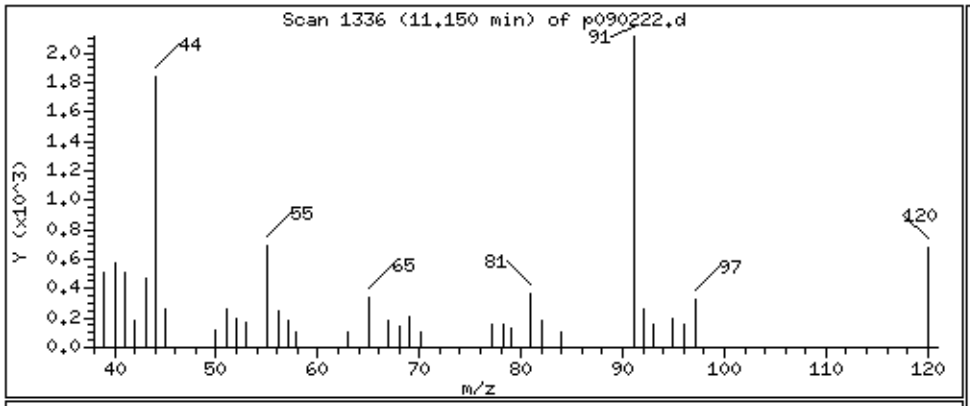
Operator: gh

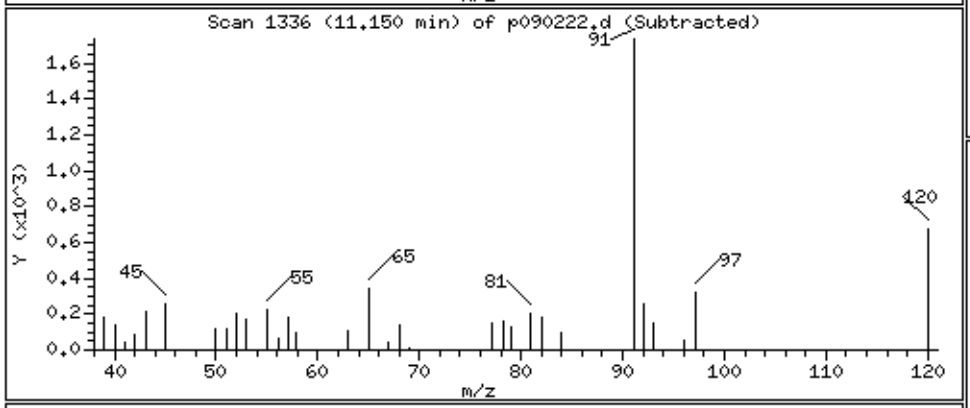
Column phase: RTX-624

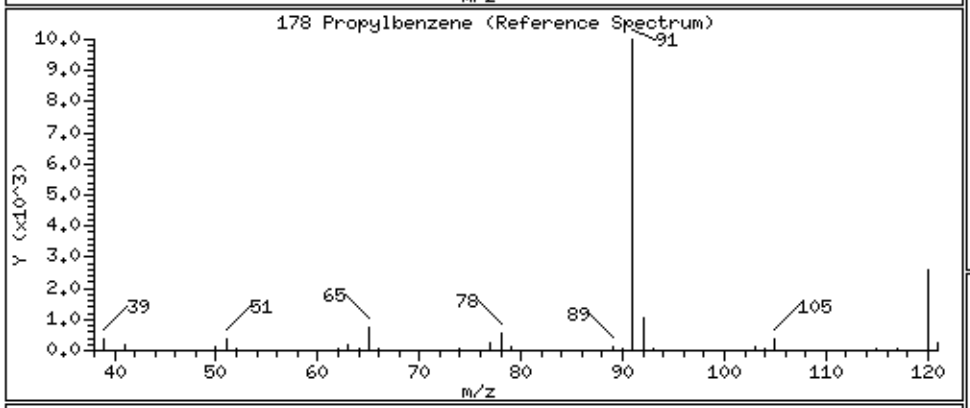
Column diameter: 0.25

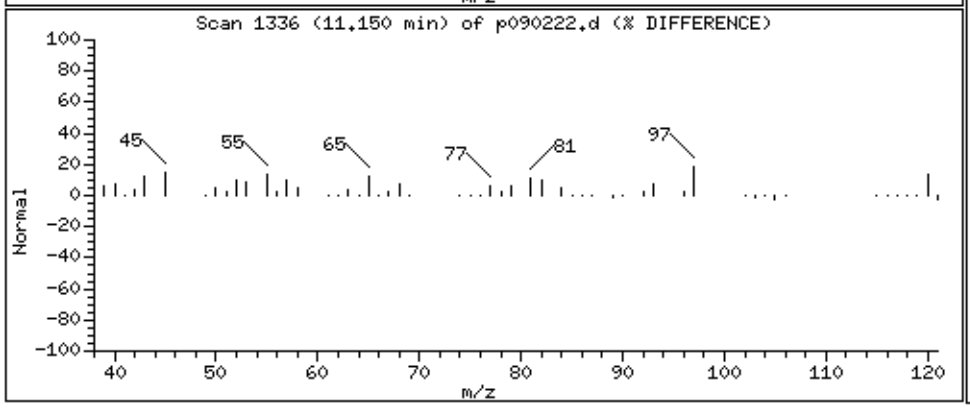
178 Propylbenzene

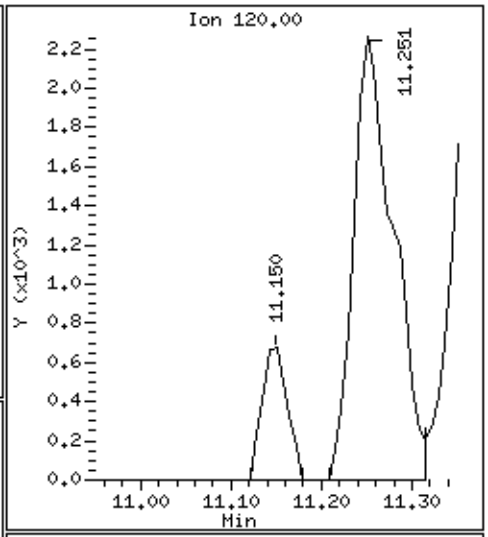
Concentration: 0.2975 PPBV

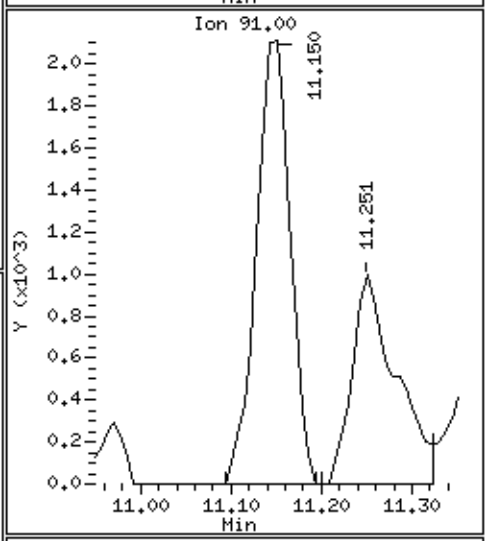


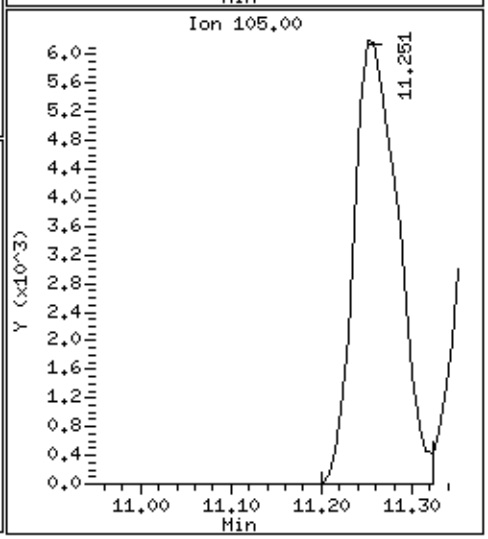












Data File: /chem/msdp.i/02SEP21.b/p090222.d

Date : 02-SEP-2021 22:59

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1L2704

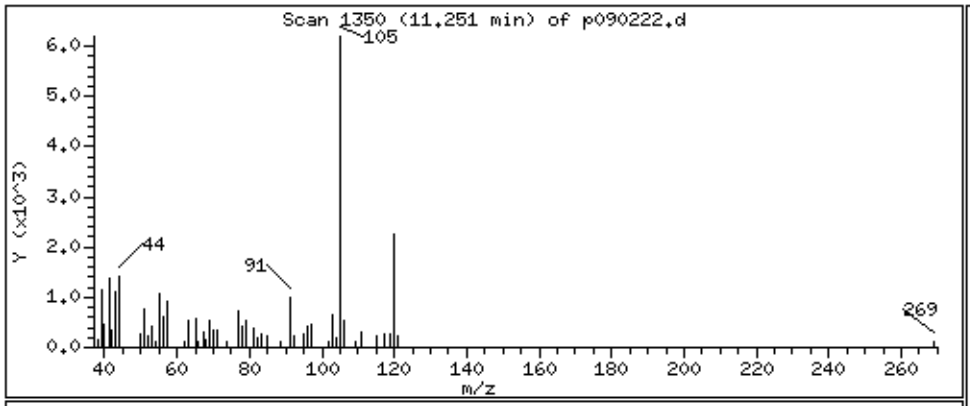
Operator: gh

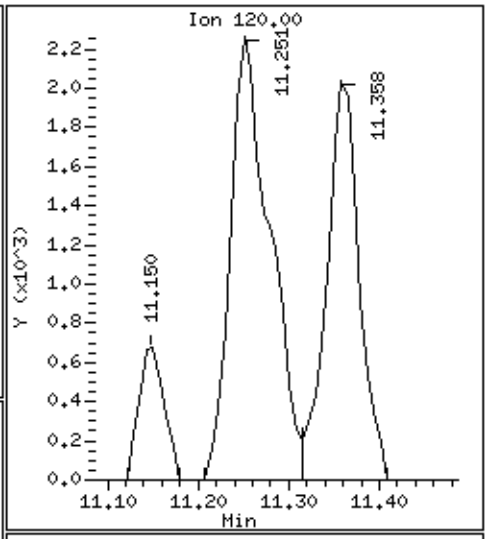
Column phase: RTX-624

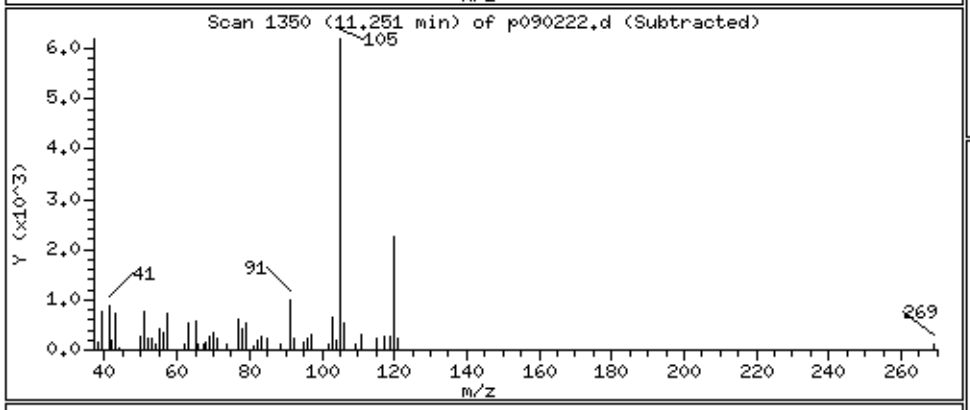
Column diameter: 0.25

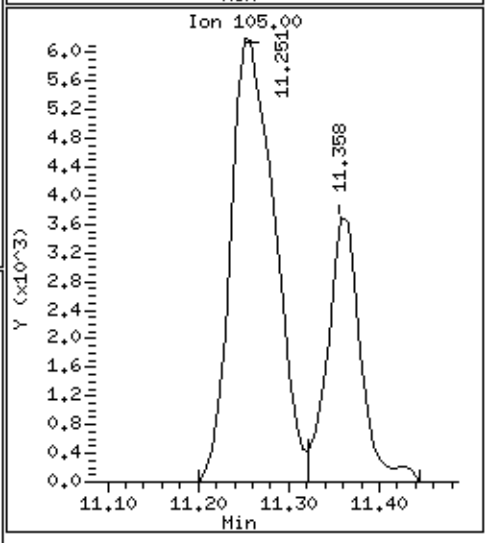
183 4-Ethyltoluene

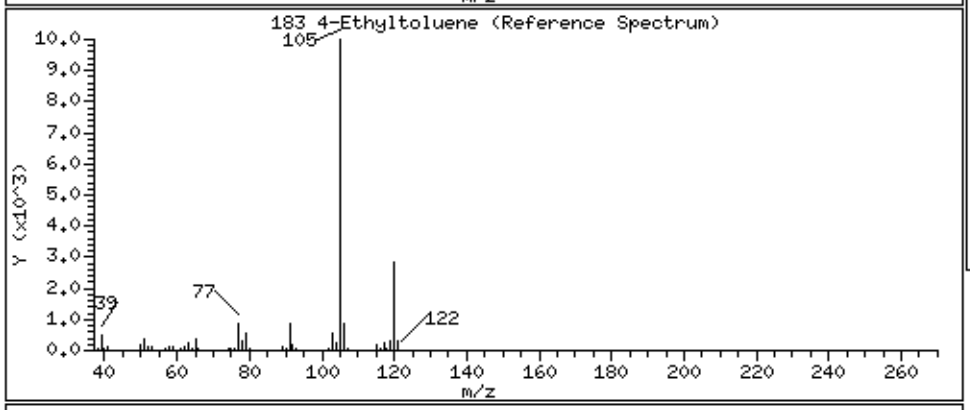
Concentration: 1.455 PPBV

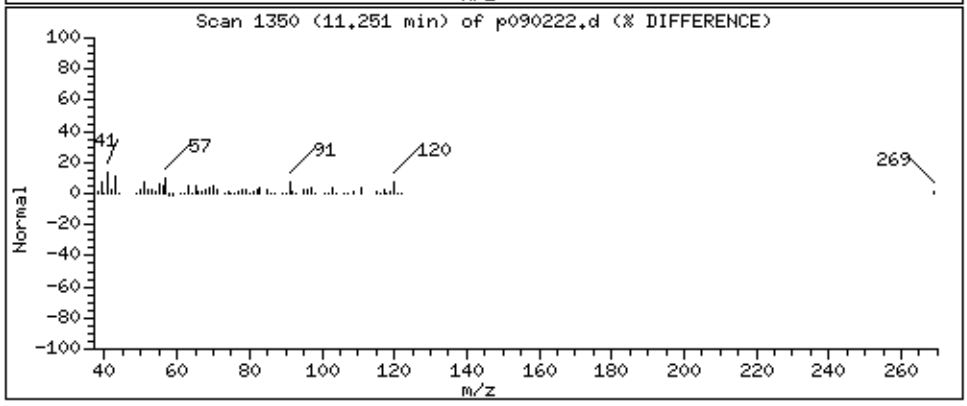












Data File: /chem/msdp.i/02SEP21.b/p090222.d

Date : 02-SEP-2021 22:59

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1L2704

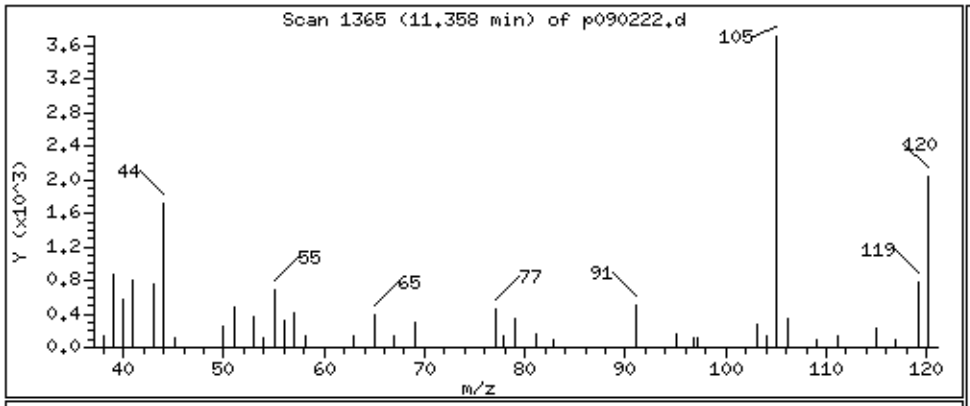
Operator: gh

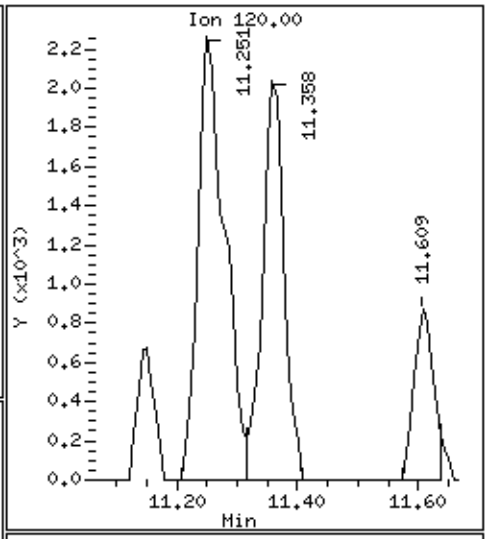
Column phase: RTX-624

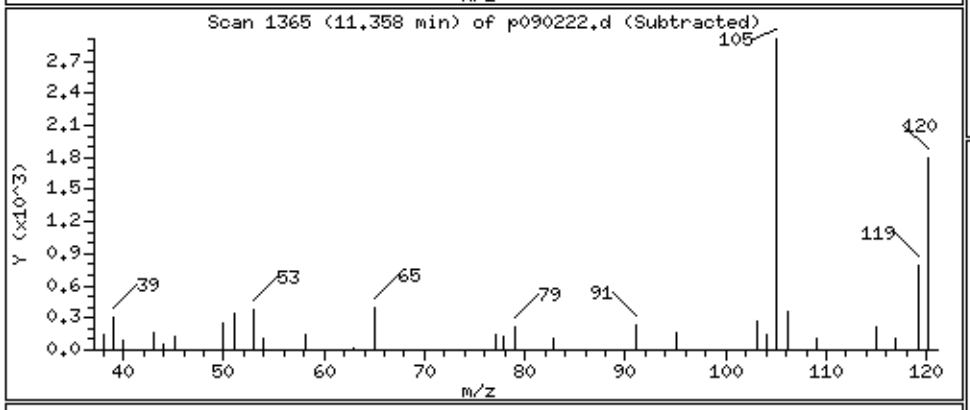
Column diameter: 0.25

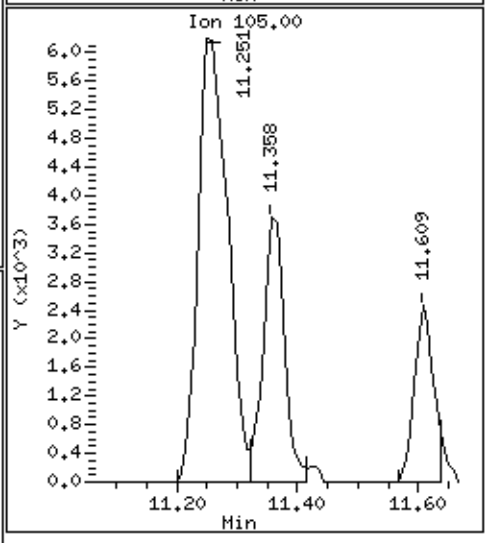
185 1,3,5-Trimethylbenzene

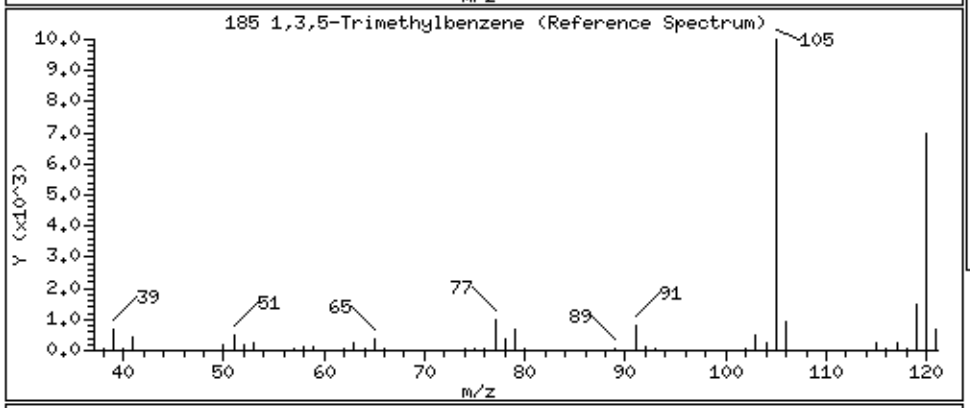
Concentration: 0.7828 PPBV

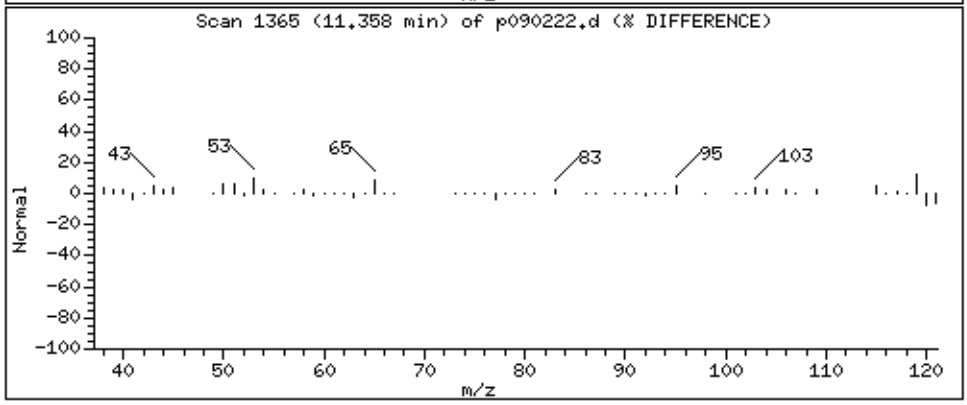












Data File: /chem/msdp.i/02SEP21.b/p090222.d

Date : 02-SEP-2021 22:59

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1L2704

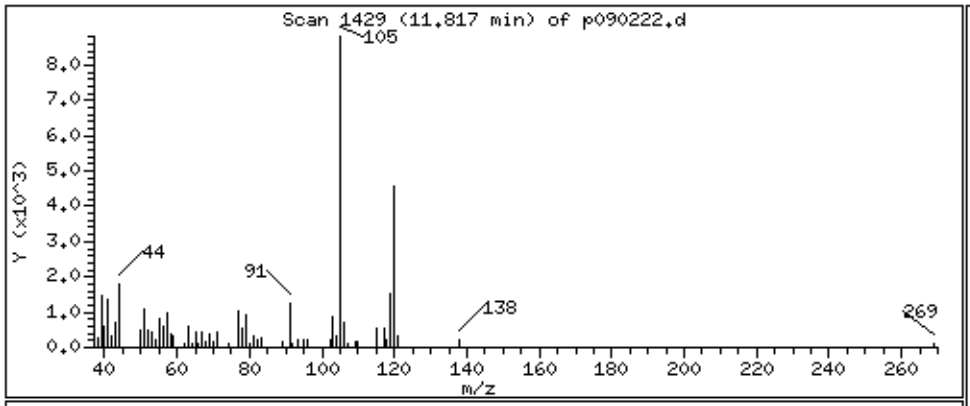
Operator: gh

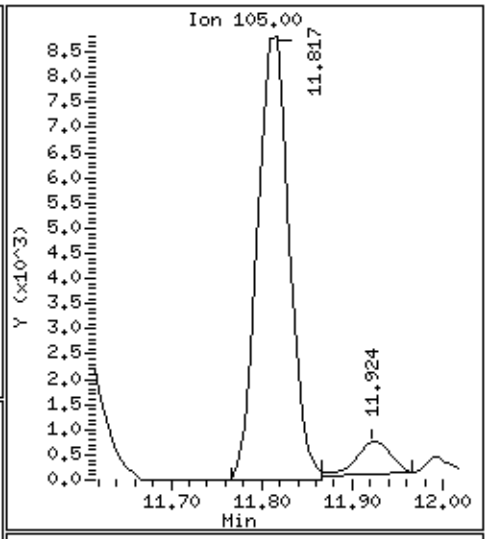
Column phase: RTX-624

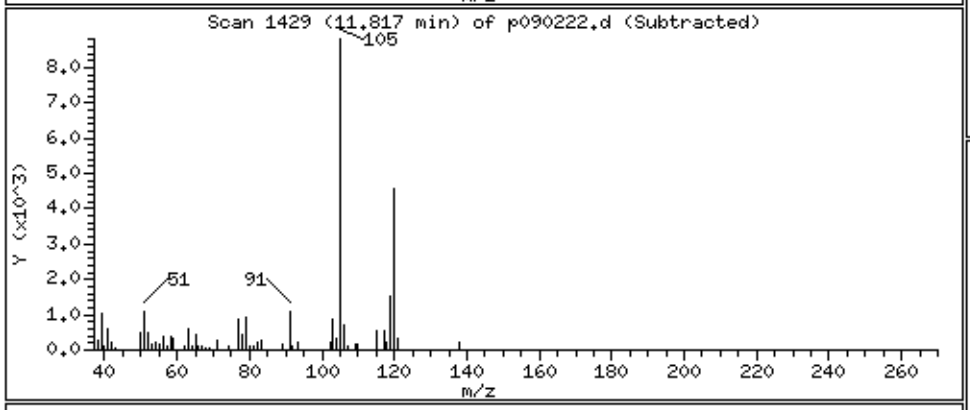
Column diameter: 0.25

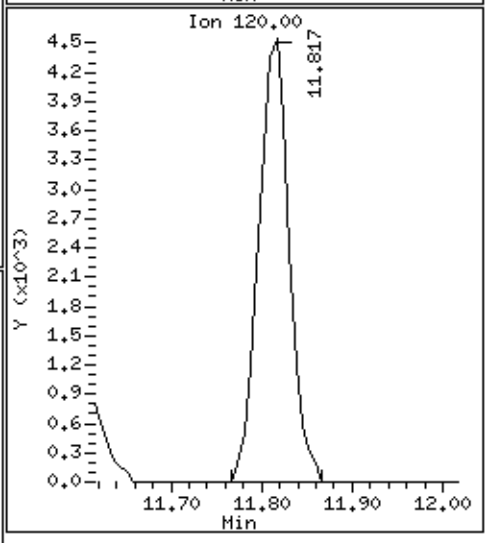
190 1,2,4-Trimethylbenzene

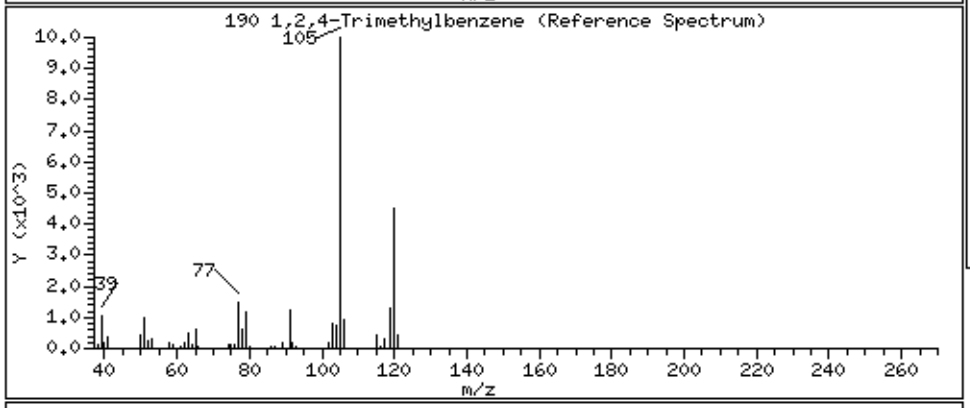
Concentration: 1.732 PPBV

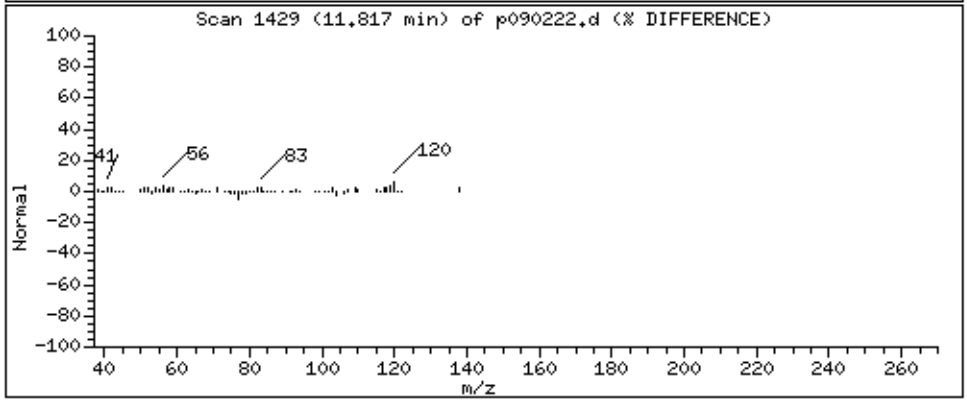












QC Results and Raw Data

eurofins | Air Toxics

Client ID:	Lab Blank		
Lab ID:	2108676A-02A	**Date/Time Analyzed:**	9/2/21 02:28 PM
Date/Time Collected:	NA - Not Applicable	**Dilution Factor:**	1.00
Media:	NA - Not Applicable	**Instrument/Filename:**	msdp.i / p090209d

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1,2-Tetrachloroethane	630-20-6	0.69	D	14	Not Detected
1,1,1-Trichloroethane	71-55-6	0.21	1.4	2.7	Not Detected
1,1,2,2-Tetrachloroethane	79-34-5	0.32	1.7	3.4	Not Detected
1,1,2-Trichloroethane	79-00-5	0.44	1.4	2.7	Not Detected
1,1-Dichloroethane	75-34-3	0.42	1.0	2.0	Not Detected
1,1-Dichloroethene	75-35-4	0.65	0.99	2.0	Not Detected
1,1-Difluoroethane	75-37-6	1.2	D	5.4	Not Detected
1,2,3-Trichloropropane	96-18-4	0.76	D	12	Not Detected
1,2,4-Trichlorobenzene	120-82-1	1.3	4.4	15	Not Detected
1,2,4-Trimethylbenzene	95-63-6	0.28	1.2	2.4	Not Detected
1,2-Dibromo-3-chloropropane	96-12-8	0.63	D	19	Not Detected
1,2-Dibromoethane (EDB)	106-93-4	0.75	1.9	3.8	Not Detected
1,2-Dichlorobenzene	95-50-1	0.34	1.5	3.0	Not Detected
1,2-Dichloroethane	107-06-2	0.33	1.0	2.0	Not Detected
1,2-Dichloropropane	78-87-5	0.55	1.2	2.3	Not Detected
1,3,5-Trimethylbenzene	108-67-8	0.51	1.2	2.4	Not Detected
1,3-Butadiene	106-99-0	0.32	0.55	1.1	Not Detected
1,3-Dichlorobenzene	541-73-1	0.34	1.5	3.0	Not Detected
1,4-Dichlorobenzene	106-46-7	0.36	1.5	3.0	Not Detected
1,4-Dioxane	123-91-1	1.1	2.2	7.2	Not Detected
2,2,4-Trimethylpentane	540-84-1	0.27	1.2	2.3	Not Detected
2-Butanone (Methyl Ethyl Ketone)	78-93-3	0.90	1.8	5.9	Not Detected
2-Hexanone	591-78-6	0.20	1.0	8.2	Not Detected
2-Propanol	67-63-0	0.37	1.5	4.9	Not Detected

eurofins | Air Toxics

Client ID:	Lab Blank		
Lab ID:	2108676A-02A	**Date/Time Analyzed:**	9/2/21 02:28 PM
Date/Time Collected:	NA - Not Applicable	**Dilution Factor:**	1.00
Media:	NA - Not Applicable	**Instrument/Filename:**	msdp.i / p090209d

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
3-Chloropropene	107-05-1	1.4	1.9	6.3	Not Detected
4-Ethyltoluene	622-96-8	0.50	1.2	2.4	Not Detected
4-Methyl-2-pentanone	108-10-1	0.49	1.0	2.0	Not Detected
Acetone	67-64-1	1.2	1.4	12	Not Detected
Acrolein	107-02-8	0.69	D	4.6	Not Detected
Acrylonitrile	107-13-1	0.26	D	4.3	Not Detected
alpha-Chlorotoluene	100-44-7	0.23	1.3	2.6	Not Detected
Benzene	71-43-2	0.30	0.80	1.6	Not Detected
Bromodichloromethane	75-27-4	0.50	1.7	3.4	Not Detected
Bromoform	75-25-2	0.54	2.6	5.2	Not Detected
Bromomethane	74-83-9	0.84	2.3	19	Not Detected
Carbon Disulfide	75-15-0	0.61	1.9	6.2	Not Detected
Carbon Tetrachloride	56-23-5	0.83	1.6	3.1	Not Detected
Chlorobenzene	108-90-7	0.21	1.2	2.3	Not Detected
Chloroethane	75-00-3	1.4	2.0	5.3	Not Detected
Chloroform	67-66-3	0.21	1.2	2.4	Not Detected
Chloromethane	74-87-3	0.72	1.2	10	Not Detected
cis-1,2-Dichloroethene	156-59-2	0.72	0.99	2.0	Not Detected
cis-1,3-Dichloropropene	10061-01-5	0.44	1.1	2.3	Not Detected
Cumene	98-82-8	0.31	1.2	2.4	Not Detected
Cyclohexane	110-82-7	0.28	0.86	1.7	Not Detected
Dibromochloromethane	124-48-1	0.73	2.1	4.2	Not Detected
Dibromomethane	74-95-3	0.54	D	14	Not Detected
Ethanol	64-17-5	1.2	1.4	9.4	Not Detected

eurofins | Air Toxics

Client ID:	Lab Blank		
Lab ID:	2108676A-02A	**Date/Time Analyzed:**	9/2/21 02:28 PM
Date/Time Collected:	NA - Not Applicable	**Dilution Factor:**	1.00
Media:	NA - Not Applicable	**Instrument/Filename:**	msdp.i / p090209d

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethyl Acetate	141-78-6	0.42	D	7.2	Not Detected
Ethyl Benzene	100-41-4	0.57	1.1	2.2	Not Detected
Ethyl-tert-butyl ether	637-92-3	0.44	D	8.4	Not Detected
Freon 11	75-69-4	0.60	1.4	2.8	Not Detected
Freon 113	76-13-1	0.61	1.9	3.8	Not Detected
Freon 114	76-14-2	0.62	1.7	3.5	Not Detected
Freon 12	75-71-8	0.39	1.2	2.5	Not Detected
Freon 134a	811-97-2	1.0	D	8.3	Not Detected
Heptane	142-82-5	0.49	1.0	2.0	Not Detected
Hexachlorobutadiene	87-68-3	2.0	6.4	21	Not Detected
Hexachloroethane	67-72-1	NA	D	19	Not Detected
Hexane	110-54-3	0.32	0.88	1.8	Not Detected
Iodomethane	74-88-4	0.38	D	29	Not Detected
Isopropyl ether	108-20-3	0.25	D	8.4	Not Detected
m,p-Xylene	108-38-3	0.50	1.1	2.2	Not Detected
Methyl tert-butyl ether	1634-04-4	0.39	2.2	7.2	Not Detected
Methylene Chloride	75-09-2	0.36	0.87	17	Not Detected
Naphthalene	91-20-3	2.0	2.6	5.2	Not Detected
o-Xylene	95-47-6	0.54	1.1	2.2	Not Detected
Propylbenzene	103-65-1	0.41	1.2	2.4	Not Detected
Propylene	115-07-1	0.25	0.43	3.4	Not Detected
Styrene	100-42-5	0.28	1.1	2.1	Not Detected
tert-Amyl methyl ether	994-05-8	0.88	D	8.4	Not Detected
tert-Butyl alcohol	75-65-0	0.42	1.8	6.1	Not Detected

Client ID:	Lab Blank		
Lab ID:	2108676A-02A	**Date/Time Analyzed:**	9/2/21 02:28 PM
Date/Time Collected:	NA - Not Applicable	**Dilution Factor:**	1.00
Media:	NA - Not Applicable	**Instrument/Filename:**	msdp.i / p090209d

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	127-18-4	0.55	1.7	3.4	Not Detected
Tetrahydrofuran	109-99-9	0.30	0.74	1.5	Not Detected
Toluene	108-88-3	0.19	0.94	1.9	Not Detected
TPH ref. to Gasoline (MW=100)	9999-9999-038	NA	D	200	Not Detected
trans-1,2-Dichloroethene	156-60-5	0.51	0.99	2.0	Not Detected
trans-1,3-Dichloropropene	10061-02-6	0.40	1.1	2.3	Not Detected
Trichloroethene	79-01-6	0.39	1.3	2.7	Not Detected
Vinyl Acetate	108-05-4	1.9	2.6	7.0	Not Detected
Vinyl Bromide	593-60-2	0.60	D	8.7	Not Detected
Vinyl Chloride	75-01-4	0.32	0.64	1.3	Not Detected

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	120
4-Bromofluorobenzene	460-00-4	70-130	102
Toluene-d8	2037-26-5	70-130	100

US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/02SEP21.b/p090209d.d
Lab Smp Id: Lab Blank Client Smp ID: Lab Blank
Inj Date : 02-SEP-2021 14:28
Operator : LD Inst ID: msdp.i
Smp Info : 200ml 34353
Misc Info : humid
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/02SEP21.b/p21q0519a.m
Meth Date : 03-Sep-2021 10:14 lk8g Quant Type: ISTD
Cal Date : 19-MAY-2021 19:45 Cal File: p051915.d
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AEC25677.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 90 Bromochloromethane					CAS #: 74-97-5		
5.785	5.778 (1.000)	130	113418	25.0000		80.00- 120.00	100.00
5.785	5.778 (1.000)	128	87862			48.23- 108.23	77.47
5.785	5.778 (1.000)	49	270035			150.57- 210.57	238.09
$ 104 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
6.315	6.308 (1.092)	65	187882	30.0168	30.017	80.00- 120.00	100.00
6.315	6.308 (1.092)	67	83463			27.21- 87.21	44.42
* 108 1,4-Difluorobenzene					CAS #: 540-36-3		
6.666	6.659 (1.000)	114	398729	25.0000		80.00- 120.00	100.00
6.666	6.659 (1.000)	88	58859			0.00- 45.71	14.76
$ 134 Toluene-d8					CAS #: 2037-26-5		
7.891	7.891 (1.184)	98	434805	25.1124	25.112	80.00- 120.00	100.00
7.891	7.891 (1.184)	70	47226			0.00- 40.44	10.86
7.891	7.891 (1.184)	100	282212			34.95- 94.95	64.91
* 153 Chlorobenzene-d5					CAS #: 3114-55-4		
9.460	9.460 (1.000)	117	396172	25.0000		80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
* 153 Chlorobenzene-d5 (continued)							
9.460	9.460 (1.000)	82	209996			23.78- 83.78	53.01
$ 170 4-Bromofluorobenzene					CAS #: 460-00-4		
10.921	10.921 (1.154)	174	259027	25.4616	25.462	80.00- 120.00	100.00
10.921	10.921 (1.154)	95	297685			95.92- 155.92	114.92
10.921	10.921 (1.154)	176	250628			66.89- 126.89	96.76

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p090209d.d
Lab Smp Id: Lab Blank
Analysis Type: VOA
Quant Type: ISTD
Operator: LD
Method File: /chem/msdp.i/02SEP21.b/p21q0519a.m
Misc Info: humid

Calibration Date: 02-SEP-2021
Calibration Time: 09:55
Client Smp ID: Lab Blank
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	111368	66821	155915	113418	1.84
108 1,4-Difluorobenze	392899	235739	550059	398729	1.48
153 Chlorobenzene-d5	382253	229352	535154	396172	3.64

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.78	5.45	6.11	5.79	0.13
108 1,4-Difluorobenze	6.66	6.33	6.99	6.67	0.11
153 Chlorobenzene-d5	9.46	9.13	9.79	9.46	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 03-Sep-2021 10:15

US32TAR1

RECOVERY REPORT

Client Name: Client SDG: 02SEP21
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: Lab Blank Client Smp ID: Lab Blank
Level: LOW Operator: LD
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT20_new.spk Quant Type: ISTD
Sublist File: AEC25677.sub
Method File: /chem/msdp.i/02SEP21.b/p21q0519a.m
Misc Info: humid

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 104 1,2-Dichloroethan	25.000	30.017	120.07	70-130
$ 134 Toluene-d8	25.000	25.112	100.45	70-130
$ 170 4-Bromofluorobenz	25.000	25.462	101.85	70-130

Data File: /chem/msdp.i/02SEP21.b/p090209d.d

Date : 02-SEP-2021 14:28

Client ID: Lab Blank

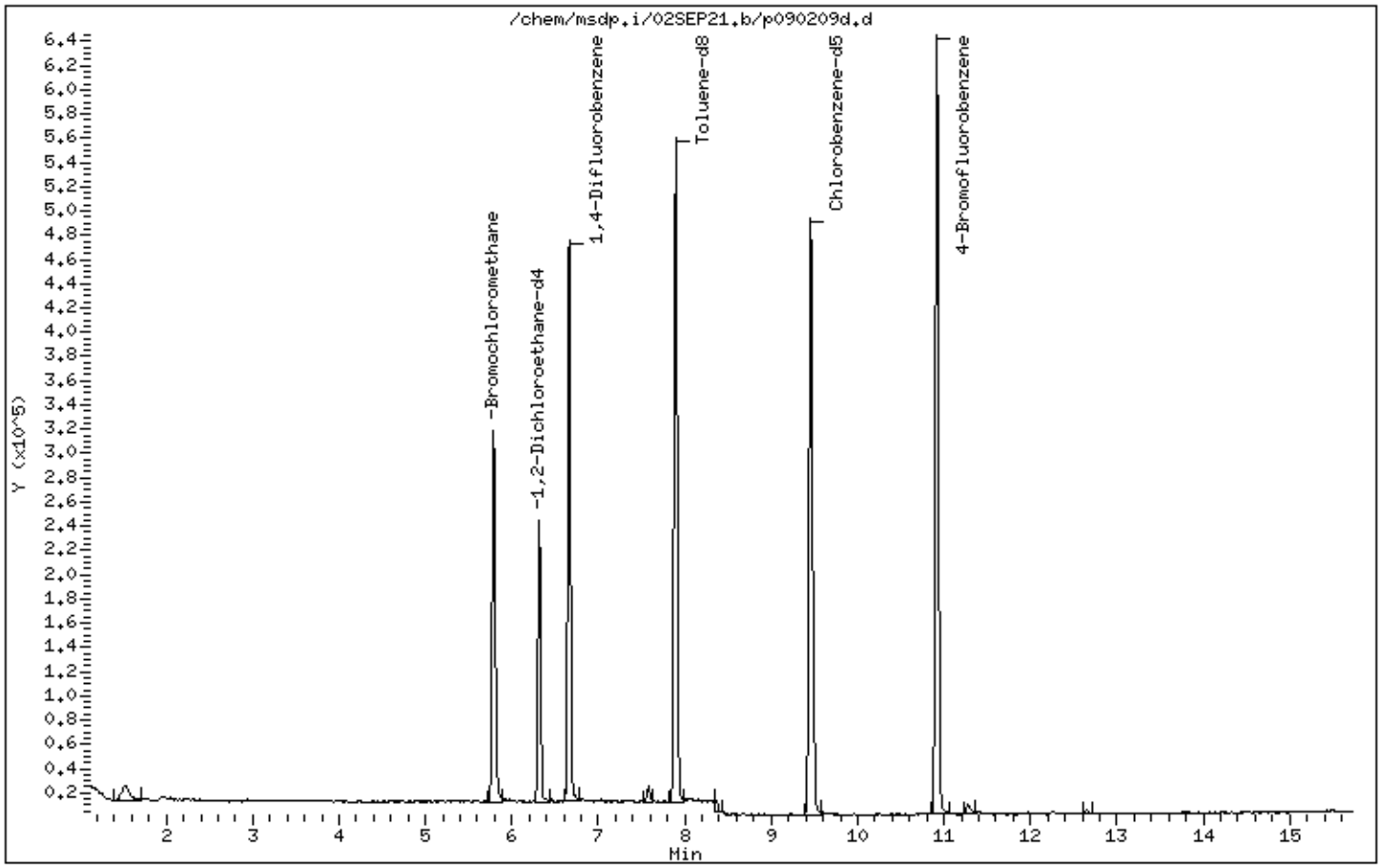
Instrument: msdp.i

Sample Info: 200ml 34353

Operator: LD

Column phase: RTX-624

Column diameter: 0.25



LEVEL-IV VALIDATABLE

MODIFIED EPA METHOD TO-15

SURROGATE RECOVERY FORM

Lab Name : Eurofins Air Toxics, LLC _____ SDG No. :2108676A

	CLIENT SAMPLE NO.	SURROGATE % RECOVERY						
		1,2-Dichloroethane-d4	#	Toluene-d8	#	4-Bromofluorobenzene	#	TOTAL OUT
1	SG-VW21A-05	112		100		104		
2	Lab Blank	120		100		102		
3	CCV	119		100		114		
4	LCS	122		101		112		
5	LCSD	112		99		112		

Surrogate Recovery Limits

1,2-Dichloroethane-d4	70 - 130
Toluene-d8	70 - 130
4-Bromofluorobenzene	70 - 130

* Designates Values Outside of QC limits

LEVEL-IV VALIDATABLE

MODIFIED EPA METHOD TO-15

INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name : Eurofins Air Toxics, LLC File ID: p090202.d Date : 2021-09-02 09:55:00 SDG No. : 2108676A

		Bromochloromethane		RT		1,4-Difluorobenzene		RT		Chlorobenzene-d5		RT	
	24-HOUR CCV	111368		5.78		392899		6.66		382253		9.46	
	UPPER LIMIT	155915		6.11		550058		6.99		535154		9.79	
	LOWER LIMIT	66820		5.45		235739		6.33		229351		9.13	
	CLIENT SAMPLE NO.												
1	SG-VW21A-05	119538		5.79		406854		6.66		415198		9.46	
2	Lab Blank	113418		5.79		398729		6.67		396172		9.46	
3	CCV	111368		5.78		392899		6.66		382253		9.46	
4	LCS	115366		5.78		419990		6.67		411816		9.46	
5	LCSD	125942		5.78		442624		6.66		431027		9.46	

Area Upper Limit = +40% of intenral standard area

Area Lower Limit = -40% of intenral standard area

RT Upper Limit = +0.33 minutes of internal standard RT

RT Lower Limit = -0.33 minutes of internal standard RT

* Designates Values Outside of QC limits

SAMPLE RESULTS/SAMPLE RESULTS DUPLICATE

Lab File ID: p090203.d & p090204.d

Lab Sample ID: 04A & 04AA

CAS Number	Compound	Original Amount	Duplicate Amount	RPD	Result Less Than 5X RL
71-55-6	1,1,1-Trichloroethane	112	106	5.5	
79-34-5	1,1,2,2-Tetrachloroethane	100	98	2.0	
79-00-5	1,1,2-Trichloroethane	105	104	0.96	
75-34-3	1,1-Dichloroethane	101	97	4.0	
75-35-4	1,1-Dichloroethene	91	86	5.6	
120-82-1	1,2,4-Trichlorobenzene	128	134	4.6	
95-63-6	1,2,4-Trimethylbenzene	110	108	1.8	
106-93-4	1,2-Dibromoethane (EDB)	108	110	1.8	
95-50-1	1,2-Dichlorobenzene	115	116	0.87	
107-06-2	1,2-Dichloroethane	135	133	1.5	
78-87-5	1,2-Dichloropropane	99	100	1.0	
108-67-8	1,3,5-Trimethylbenzene	109	108	0.92	
106-99-0	1,3-Butadiene	117	110	6.2	
541-73-1	1,3-Dichlorobenzene	118	117	0.85	
106-46-7	1,4-Dichlorobenzene	118	116	1.7	
123-91-1	1,4-Dioxane	93	92	1.1	
540-84-1	2,2,4-Trimethylpentane	101	96	5.1	
78-93-3	2-Butanone (Methyl Ethyl Ketone)	83	80	3.7	
591-78-6	2-Hexanone	110	110	0	
67-63-0	2-Propanol	119	113	5.2	
107-05-1	3-Chloropropene	83	77	7.5	
622-96-8	4-Ethyltoluene	109	107	1.9	
108-10-1	4-Methyl-2-pentanone	105	105	0	
67-64-1	Acetone	100	96	4.1	
100-44-7	alpha-Chlorotoluene	109	108	0.92	
71-43-2	Benzene	95	93	2.1	
75-27-4	Bromodichloromethane	117	116	0.86	
75-25-2	Bromoform	120	120	0	
74-83-9	Bromomethane	89	85	4.6	
75-15-0	Carbon Disulfide	84	81	3.6	
56-23-5	Carbon Tetrachloride	124	121	2.4	
108-90-7	Chlorobenzene	102	103	0.98	
75-00-3	Chloroethane	85	82	3.6	
67-66-3	Chloroform	108	102	5.7	
74-87-3	Chloromethane	132	121	8.7	
156-59-2	cis-1,2-Dichloroethene	93	91	2.2	

10061-01-5	cis-1,3-Dichloropropene	96	99	3.1
98-82-8	Cumene	99	100	1.0
110-82-7	Cyclohexane	84	82	2.4
124-48-1	Dibromochloromethane	120	120	0
64-17-5	Ethanol	98	92	6.3
100-41-4	Ethyl Benzene	100	100	0
75-69-4	Freon 11	123	115	6.7
76-13-1	Freon 113	101	97	4.0
76-14-2	Freon 114	110	105	4.7
75-71-8	Freon 12	119	112	6.1
142-82-5	Heptane	86	87	1.2
87-68-3	Hexachlorobutadiene	140	146	4.2
110-54-3	Hexane	98	96	2.1
108-38-3	m,p-Xylene	101	101	0
1634-04-4	Methyl tert-butyl ether	88	85	3.5
75-09-2	Methylene Chloride	128	121	5.6
91-20-3	Naphthalene	110	117	6.2
95-47-6	o-Xylene	97	97	0
103-65-1	Propylbenzene	107	107	0
115-07-1	Propylene	115	108	6.3
100-42-5	Styrene	97	98	1.0
127-18-4	Tetrachloroethene	112	113	0.89
109-99-9	Tetrahydrofuran	121	115	5.1
108-88-3	Toluene	97	96	1.0
156-60-5	trans-1,2-Dichloroethene	89	89	0
10061-02-6	trans-1,3-Dichloropropene	106	108	1.9
79-01-6	Trichloroethene	106	108	1.9
108-05-4	Vinyl Acetate	92	83	10
75-01-4	Vinyl Chloride	95	84	12

US32TAR1

INITIAL CALIBRATION DATA

Start Cal Date : 19-MAY-2021 14:02
End Cal Date : 20-MAY-2021 00:05
Quant Method : ISTD
Origin : Disabled
Target Version : 3.60
Integrator : HP RTE
Method file : /chem/msdp.i/19MAY21.b/p21q0519a.m
Cal Date : 20-May-2021 11:07 lk8g
Curve Type : Average

Calibration File Names:
Level 2: /chem/msdp.i/19MAY21.b/p051914.d
Level 3: /chem/msdp.i/19MAY21.b/p051915.d
Level 4: /chem/msdp.i/19MAY21.b/p051916.d
Level 5: /chem/msdp.i/19MAY21.b/p051917.d
Level 6: /chem/msdp.i/19MAY21.b/p051918.d
Level 7: /chem/msdp.i/19MAY21.b/p051919.d
Level 8: /chem/msdp.i/19MAY21.b/p051920.d
Level 9: /chem/msdp.i/19MAY21.b/p051921.d
Level 10: /chem/msdp.i/19MAY21.b/p051924.d

Compound	0.40000 Level 2	0.80000 Level 3	2.000 Level 4	5.000 Level 5	20.000 Level 6	50.000 Level 7	100.000 Level 8	200.000 Level 9	0.50000 Level 10	___ RRF	% RSD
1 Dimethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
2 1,1-Dichloro-1-Fluoroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
3 Freon 143a	+++++	0.64347	0.55833	0.28699	0.48663	0.54132	0.53859	0.32618	+++++		0.48307	26.850
4 Freon 134a	+++++	0.77011	0.84089	0.78129	0.71828	0.77669	0.83041	0.82114	+++++		0.79126	5.405
5 Propylene	+++++	+++++	1.30044	1.16437	0.97808	1.08818	1.14258	1.19048	+++++		1.14402	9.390

US32TAR1

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Integrator : HP RTE
Method file : /chem/msdp.i/19MAY21.b/p21q0519a.m
Cal Date : 20-May-2021 11:07 lk8g
Curve Type : Average

Compound	0.40000 Level 2	0.80000 Level 3	2.000 Level 4	5.000 Level 5	20.000 Level 6	50.000 Level 7	___ RRF	% RSD
	100.000 Level 8	200.000 Level 9	0.50000 Level 10					
6 Propane	0.35885	0.70755	0.41224	0.45766	0.35651	0.39030		
	0.42780	0.42956	+++++				0.44256	25.464
7 1,1-Difluoroethane	+++++	+++++	0.71318	0.51293	0.51356	0.55570		
	0.58422	0.52044	+++++				0.56667	13.609
8 Freon 12	+++++	1.89452	2.25684	2.41287	1.98305	2.23908		
	2.37709	2.51953	2.25486				2.24223	9.426
9 Chlorodifluoromethane	+++++	0.19040	0.21703	0.22854	0.20953	0.22781		
	0.23846	0.23864	+++++				0.22149	7.823
10 Freon 114	+++++	2.19697	2.35022	2.42550	1.98865	2.15848		
	2.32315	2.38505	1.78003				2.20100	10.095
11 Freon 14	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
12 Isobutane	+++++	+++++	2.94068	2.70679	2.13532	2.31544		
	2.47976	2.61851	+++++				2.53275	11.334
13 Freon 142b	2.88379	2.72504	2.51717	2.51995	1.92155	2.20295		
	2.38394	2.38895	+++++				2.44292	12.194
14 Acetaldehyde	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++

US32TAR1

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Cal Date : 20-May-2021 11:07 lk8g
Curve Type : Average

Compound	0.40000 Level 2	0.80000 Level 3	2.000 Level 4	5.000 Level 5	20.000 Level 6	50.000 Level 7	___ RRF	% RSD
	100.000 Level 8	200.000 Level 9	0.50000 Level 10					
15 Chloromethane	+++++	+++++	1.62633	1.12803	1.35456	1.40983		
	1.30365	0.98253	+++++				1.30082	17.255
16 Hexafluoropropene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
17 Freon 13	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
18 Butane	+++++	+++++	0.36632	0.35071	0.20777	0.23711		
	0.29558	0.35050	+++++				0.30133	22.008
19 Vinyl Chloride	+++++	1.63750	1.79369	1.70399	1.29644	1.43002		
	1.50248	1.58819	1.56702				1.56492	10.007
20 1,3-Butadiene	+++++	1.15962	1.11125	1.12135	1.33604	1.33164		
	1.39178	1.46398	1.15352				1.25865	10.936
21 Vinyl Fluoride	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
22 Ethylene Oxide	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
23 Methanol	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++

US32TAR1

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Curve Type : Average

Compound	0.40000 Level 2	0.80000 Level 3	2.000 Level 4	5.000 Level 5	20.000 Level 6	50.000 Level 7	___ RRF	% RSD
	100.000 Level 8	200.000 Level 9	0.50000 Level 10					
24 Bromomethane	+++++	+++++	1.20010	1.20656	0.84526	0.89756		
	0.93585	0.95210	+++++				1.00624	15.607
25 Isobutylene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
26 2-Butene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
27 trans-2-butene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
28 1-Butene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
29 cis-2-Butene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
30 Chloroethane	+++++	+++++	0.55246	0.65854	0.47089	0.52675		
	0.57230	0.59544	+++++				0.56273	11.288
31 Isopentane	+++++	+++++	1.67935	1.76478	1.70699	1.64818		
	1.70298	1.77148	+++++				1.71230	2.809
32 Vinyl Bromide	+++++	0.89521	1.00012	0.99635	0.80298	0.86636		
	0.95282	0.99672	+++++				0.93008	8.292

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Cal Date : 20-May-2021 11:07 lk8g
Curve Type : Average

Compound	0.40000 Level 2	0.80000 Level 3	2.000 Level 4	5.000 Level 5	20.000 Level 6	50.000 Level 7	___ RRF	% RSD
	100.000 Level 8	200.000 Level 9	0.50000 Level 10					
33 Freon 11	+++++	2.37298	2.30540	2.51055	2.23314	2.30111		
	2.43347	2.54911	2.35618				2.38274	4.554
34 Dichlorofluoromethane	+++++	2.10328	2.06570	2.13311	1.73001	1.97932		
	2.12384	2.24043	+++++				2.05367	7.927
35 Pentane	+++++	2.89800	2.83104	2.84872	2.63186	2.68332		
	2.75389	2.83565	+++++				2.78321	3.479
36 1-Pentene	2.06121	1.59213	1.56421	1.63474	1.37543	1.48214		
	1.53709	1.54332	+++++				1.59878	12.659
37 3-Methyl-1-butene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
38 Ethyl Ether	+++++	0.41543	0.47730	0.50593	0.42858	0.46228		
	0.48772	0.50964	+++++				0.46955	7.767
39 Ethanol	+++++	+++++	0.27474	0.25602	0.21630	0.23850		
	0.24473	0.25725	+++++				0.24792	8.009
40 Freon 123a	1.67643	1.70260	1.56653	1.71267	1.35347	1.42708		
	1.48357	1.59067	+++++				1.56413	8.516
41 Freon 123	2.23549	2.28998	2.32261	2.22470	2.10291	2.12379		
	2.22936	2.25042	+++++				2.22241	3.385

US32TAR1

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Curve Type : Average

Compound	0.40000 Level 2	0.80000 Level 3	2.000 Level 4	5.000 Level 5	20.000 Level 6	50.000 Level 7	___ RRF	% RSD
	100.000 Level 8	200.000 Level 9	0.50000 Level 10					
42 Acrolein	+++++	+++++	0.43742	0.46343	0.37582	0.40776		
	0.43668	0.46010	+++++				0.43020	7.747
43 Freon 113	+++++	1.66116	1.75764	1.84846	1.81076	1.72301		
	1.78692	1.85367	1.72082				1.77031	3.803
44 1,1-Dichloroethene	+++++	1.13047	0.98158	1.08462	0.90481	0.98246		
	1.04403	1.08444	1.24812				1.05757	9.982
45 2-Chloropropane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
46 2,3-Dimethylbutane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
47 Acetone	+++++	+++++	0.71912	0.66713	0.55646	0.62462		
	0.66710	0.69799	+++++				0.65540	8.867
48 Carbon Disulfide	+++++	+++++	2.82595	2.99407	2.45111	2.66619		
	2.81912	2.96077	+++++				2.78620	7.233
49 Iodomethane	+++++	+++++	1.13057	1.12578	1.89275	2.20331		
	2.35282	2.40768	+++++				1.85215	31.782 <-
50 Isoprene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++

US32TAR1

INITIAL CALIBRATION DATA

Start Cal Date : 19-MAY-2021 14:02
End Cal Date : 20-MAY-2021 00:05
Quant Method : ISTD
Origin : Disabled
Target Version : 3.60
Integrator : HP RTE
Method file : /chem/msdp.i/19MAY21.b/p21q0519a.m
Cal Date : 20-May-2021 11:07 lk8g
Curve Type : Average

Compound	0.40000 Level 2	0.80000 Level 3	2.000 Level 4	5.000 Level 5	20.000 Level 6	50.000 Level 7	100.000 Level 8	200.000 Level 9	0.50000 Level 10	___ RRF	% RSD
51 2-Methyl-2-butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
52 2-Propanol	+++++	+++++	2.69785	2.66069	2.37669	2.59218	2.71904	2.80241	+++++	2.64148	5.564
53 trans-2-Pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
54 3-Chloropropene	+++++	0.46426	0.51422	0.48997	0.39775	0.44877	0.47843	0.46484	+++++	0.46546	7.851
55 Cyclopentene	2.17715	2.47822	2.46632	2.56699	2.14041	2.34707	2.46346	2.49030	+++++	2.39124	6.514
56 Methyl Acetate	2.75833	2.64156	2.95164	2.98908	2.39164	2.73802	2.95740	2.94353	+++++	2.79640	7.421
57 Acetonitrile	+++++	+++++	1.17773	1.29138	1.02662	1.19401	1.30642	1.39067	+++++	1.23114	10.326
58 cis-2-Pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
59 Methylene Chloride	+++++	+++++	1.66058	1.84335	1.45839	1.64567	1.75730	1.84887	+++++	1.70236	8.667

US32TAR1

INITIAL CALIBRATION DATA

Start Cal Date : 19-MAY-2021 14:02
End Cal Date : 20-MAY-2021 00:05
Quant Method : ISTD
Origin : Disabled
Target Version : 3.60
Integrator : HP RTE
Method file : /chem/msdp.i/19MAY21.b/p21q0519a.m
Cal Date : 20-May-2021 11:07 lk8g
Curve Type : Average

Compound	0.40000 Level 2	0.80000 Level 3	2.000 Level 4	5.000 Level 5	20.000 Level 6	50.000 Level 7	___ RRF	% RSD
	100.000 Level 8	200.000 Level 9	0.50000 Level 10					
60 Cyclopentane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
61 1,2-Dichloro-1-fluoroethane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
62 tert-Butyl alcohol	+++++	+++++	3.20065	3.30496	2.90583	2.89744		
	3.04086	3.13252	+++++				3.08038	5.297
63 Methyl tert-butyl ether	+++++	3.20233	3.03539	3.11282	3.04059	2.95544		
	3.02504	3.11966	+++++				3.07018	2.627
64 trans-1,2-Dichloroethene	+++++	0.70368	0.71795	0.72086	0.61472	0.66913		
	0.70892	0.74337	0.77451				0.70664	6.798
65 2,2-Dimethylbutane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
66 Acrylonitrile	+++++	1.08486	1.02749	1.03009	0.83743	0.92318		
	0.97672	1.03119	0.95852				0.98368	7.902
67 Hexane	+++++	2.36995	2.44383	2.55815	2.23183	2.38896		
	2.51048	2.60764	2.59146				2.46279	5.242
68 1-Hexene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++

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Cal Date : 20-May-2021 11:07 lk8g
Curve Type : Average

Compound	0.40000 Level 2	0.80000 Level 3	2.000 Level 4	5.000 Level 5	20.000 Level 6	50.000 Level 7	___ RRF	% RSD
	100.000 Level 8	200.000 Level 9	0.50000 Level 10					
69 Bromoethane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
70 4-Methyl-1-pentene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
71 1,1-Dichloroethane	+++++	2.12050	2.15298	2.31268	1.88443	2.09213		
	2.23176	2.32442	1.81878				2.11721	8.735
72 Isopropyl ether	+++++	+++++	5.59896	5.72998	5.66571	5.66877		
	5.76012	5.94316	+++++				5.72778	2.086
73 Vinyl Acetate	+++++	+++++	0.27670	0.27644	0.22773	0.26524		
	0.28486	0.30161	+++++				0.27210	9.135
74 Chloroprene	2.14359	2.03061	2.29463	2.44863	1.90092	2.21243		
	2.40069	2.43763	+++++				2.23364	8.953
75 1-Propanol	0.34779	0.37288	0.37461	0.33474	0.25627	0.30465		
	0.32597	0.32511	+++++				0.33025	11.608
76 2-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
77 3-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++

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Method file : /chem/msdp.i/19MAY21.b/p21q0519a.m
Cal Date : 20-May-2021 11:07 lk8g
Curve Type : Average

Compound	0.40000 Level 2	0.80000 Level 3	2.000 Level 4	5.000 Level 5	20.000 Level 6	50.000 Level 7	100.000 Level 8	200.000 Level 9	0.50000 Level 10	___ RRF	% RSD
78 1-Chloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
79 Ethyl-tert-butyl ether	+++++	+++++	4.83620	5.05574	4.88798	4.89187	4.97055	5.10638	+++++	4.95812	2.131
80 2-Methyl-1-pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
81 2,4-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
82 2,3-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
83 tert-Butyl chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
84 2,2-Dichloropropane	+++++	1.77964	1.81997	1.87272	1.91022	1.85607	1.92796	1.99401	+++++	1.88008	3.793
85 cis-1,2-Dichloroethene	+++++	0.63006	0.72053	0.77116	0.61241	0.72577	0.77548	0.80235	0.82883	0.73332	10.638
86 2-Butanone	+++++	+++++	0.58624	0.61354	0.46455	0.53642	0.58432	0.60531	+++++	0.56506	9.921

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Cal Date : 20-May-2021 11:07 lk8g
Curve Type : Average

Compound	0.40000 Level 2	0.80000 Level 3	2.000 Level 4	5.000 Level 5	20.000 Level 6	50.000 Level 7	___ RRF	% RSD
	100.000 Level 8	200.000 Level 9	0.50000 Level 10					
87 Ethyl Acetate	+++++	+++++	0.57084	0.59355	0.47870	0.54564		
	0.57818	0.60540	+++++				0.56205	8.124
88 Methyl Acrylate	3.17133	2.76269	2.95610	3.12287	2.41468	2.81782		
	3.08995	3.13777	+++++				2.93415	8.839
89 Tetrahydrofuran	+++++	1.93446	1.95308	2.03673	1.59091	1.83806		
	1.94537	2.03649	1.69916				1.87928	8.525
91 trans-2-Hexene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
92 Chloroform	+++++	2.04196	2.15806	2.35426	1.86695	2.17101		
	2.31664	2.42886	2.06383				2.17519	8.546
93 cis-2-Hexene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
94 Cyclohexane	+++++	1.43367	1.50722	1.58410	1.57245	1.53317		
	1.54570	1.61103	1.79345				1.57260	6.636
95 Methylcyclopentane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
96 1,1,1-Trichloroethane	+++++	2.46156	2.42553	2.48444	2.36393	2.36921		
	2.42958	2.51331	2.61099				2.45732	3.291

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Curve Type : Average

Compound	0.40000 Level 2	0.80000 Level 3	2.000 Level 4	5.000 Level 5	20.000 Level 6	50.000 Level 7	___ RRF	% RSD
	100.000 Level 8	200.000 Level 9	0.50000 Level 10					
97 Carbon Tetrachloride	+++++	2.25147	2.24440	2.22561	2.35635	2.31498		
	2.45306	2.54156	2.05010				2.30469	6.528
98 sec-Butyl chloride	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
99 1,1-Dichloropropene	+++++	0.17378	0.17794	0.17658	0.15112	0.16544		
	0.17360	0.17276	+++++				0.17017	5.462
100 2,3,4-Trimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
101 2,2,4-Trimethylpentane	+++++	8.25963	8.27890	8.75173	8.57253	8.58971		
	8.69563	8.91957	8.41247				8.56002	2.709
102 Benzene	+++++	0.78550	0.87685	0.84553	0.74484	0.82677		
	0.84553	0.84637	0.82851				0.82499	5.017
103 Isobutanol	0.54457	0.28827	0.32257	0.35375	0.28589	0.33052		
	0.36043	0.34600	+++++				0.35400	23.128
105 tert-Amyl methyl ether	+++++	+++++	0.24796	0.22661	0.23645	0.23382		
	0.22848	0.22244	+++++				0.23262	3.884
106 1,2-Dichloroethane	+++++	0.41345	0.44525	0.47019	0.38312	0.44057		
	0.45058	0.44750	0.38354				0.42928	7.531

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Compound	0.40000 Level 2	0.80000 Level 3	2.000 Level 4	5.000 Level 5	20.000 Level 6	50.000 Level 7	___ RRF	% RSD
	100.000 Level 8	200.000 Level 9	0.50000 Level 10					
107 Heptane	+++++	0.30034	0.32485	0.33244	0.32365	0.33156		
	0.32821	0.32372	0.34983				0.32683	4.186
109 Butanal	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
110 n-Butanol	+++++	+++++	0.28572	0.30596	0.28104	0.30551		
	0.31292	0.30849	+++++				0.29994	4.393
111 Trichloroethene	+++++	0.38664	0.41237	0.41315	0.35498	0.40036		
	0.41626	0.41270	0.40610				0.40032	5.166
112 Isobutyl chloride	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
113 Ethyl acrylate	0.05846	0.06007	0.06293	0.05929	0.05058	0.05740		
	0.05605	0.05682	+++++				0.05770	6.225
114 1,2-Dichloropropane	+++++	0.43979	0.42737	0.42567	0.39065	0.41185		
	0.42060	0.42118	0.44647				0.42295	4.035
115 2-Pentanone	1.21904	1.27106	1.31222	1.33128	1.17591	1.27524		
	1.28236	1.28701	+++++				1.26926	3.934
116 Methyl Methacrylate	+++++	0.35343	0.34137	0.34552	0.32431	0.34108		
	0.34921	0.34961	+++++				0.34351	2.790

US32TAR1

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Curve Type : Average

Compound	0.40000 Level 2	0.80000 Level 3	2.000 Level 4	5.000 Level 5	20.000 Level 6	50.000 Level 7	___ RRF	% RSD
	100.000 Level 8	200.000 Level 9	0.50000 Level 10					
117 1,4-Dioxane	+++++	0.22595	0.23899	0.23631	0.21158	0.22036		
	0.22028	0.21996	+++++				0.22478	4.349
118 Dibromomethane	+++++	0.34506	0.39714	0.39205	0.34241	0.37852		
	0.39319	0.38886	0.33065				0.37098	7.285
119 Methacrylonitrile	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
120 2-Chloropentane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
121 2-Butanol	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
122 Bromodichloromethane	+++++	0.58233	0.63649	0.64840	0.58270	0.62912		
	0.65408	0.65615	0.57631				0.62070	5.563
123 1-Bromopropane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
124 Chloroacetonitrile	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
125 n-Butylchloride	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++

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Compound	0.40000 Level 2	0.80000 Level 3	2.000 Level 4	5.000 Level 5	20.000 Level 6	50.000 Level 7	___ RRF	% RSD
	100.000 Level 8	200.000 Level 9	0.50000 Level 10					
126 cis-1,3-Dichloropropene	+++++	0.50516	0.52561	0.54285	0.48751	0.51912		
	0.54679	0.54891	0.51913				0.52438	4.097
127 Methylcyclohexane	+++++	0.61465	0.55349	0.55932	0.59377	0.58677		
	0.57314	0.56161	0.59163				0.57930	3.623
128 Thiophene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
129 2-Methylhexane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
130 3-Methylhexane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
131 4-Methyl-2-pentanone	+++++	0.44567	0.41535	0.42739	0.42024	0.41445		
	0.41323	0.40846	0.49125				0.42950	6.406
132 Cyclohexene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
135 1-Methoxy-2-propanol	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
136 Octane	+++++	0.49928	0.45400	0.47320	0.49988	0.47864		
	0.47697	0.47146	0.52912				0.48532	4.775

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Compound	0.40000 Level 2	0.80000 Level 3	2.000 Level 4	5.000 Level 5	20.000 Level 6	50.000 Level 7	___ RRF	% RSD
	100.000 Level 8	200.000 Level 9	0.50000 Level 10					
137 Toluene	+++++	1.17435	1.15077	1.15598	1.08690	1.13273		
	1.13471	1.13158	1.13864				1.13821	2.227
138 1-Heptene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
139 trans-1,3-Dichloropropene	+++++	0.47393	0.50610	0.49304	0.46856	0.50673		
	0.51882	0.51939	0.44922				0.49197	5.206
140 2,3-Dichloro-1-propene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
141 1,1,2-Trichloroethane	+++++	0.39429	0.40170	0.39839	0.38144	0.40439		
	0.41066	0.41457	0.44769				0.40664	4.784
142 Tetrachloroethene	+++++	0.60799	0.58444	0.57342	0.55590	0.57612		
	0.57841	0.58067	0.50122				0.56977	5.476
143 2-Hexanone	+++++	+++++	0.57709	0.59101	0.58032	0.57999		
	0.57982	0.57760	+++++				0.58097	0.877
144 1,3-Dichloropropane	+++++	0.50031	0.56980	0.56359	0.52057	0.55649		
	0.56248	0.55833	0.49258				0.54052	5.748
145 Butyl Acetate	0.62964	0.65442	0.64029	0.63612	0.60754	0.62559		
	0.62661	0.61750	+++++				0.62971	2.270

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Compound	0.40000 Level 2	0.80000 Level 3	2.000 Level 4	5.000 Level 5	20.000 Level 6	50.000 Level 7	100.000 Level 8	200.000 Level 9	0.50000 Level 10	___ RRF	% RSD
146 Dibromochloromethane	+++++	0.78306	0.76265	0.73963	0.72881	0.77388	0.79214	0.79892	0.69915	0.75978	4.551
147 Bromodichloroethene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
148 1,2-Dibromoethane (EDB)	+++++	0.66728	0.66954	0.65728	0.60433	0.66080	0.67392	0.67207	0.61234	0.65220	4.249
149 2-Methylheptane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
150 3-Methylheptane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
151 1-Bromo-2-Chloroethane	+++++	+++++	0.78697	0.80160	0.70538	0.77001	0.79910	0.79313	+++++	0.77603	4.691
152 Diethyl Ketone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
154 Chlorobenzene	+++++	0.98039	1.00297	1.00615	0.95318	0.98786	1.00429	1.00931	0.99753	0.99271	1.887
155 Ethyl Benzene	+++++	0.54541	0.51726	0.50090	0.51483	0.52055	0.51499	0.51317	0.52561	0.51909	2.460

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Compound	0.40000 Level 2	0.80000 Level 3	2.000 Level 4	5.000 Level 5	20.000 Level 6	50.000 Level 7	___ RRF	% RSD
	100.000 Level 8	200.000 Level 9	0.50000 Level 10					
156 Nonane	+++++	1.38941	1.32633	1.28604	1.42437	1.31837		
	1.30797	1.29642	+++++				1.33556	3.856
157 1,1,1,2-Tetrachloroethane	0.61281	0.53381	0.51050	0.53112	0.56741	0.57195		
	0.55638	0.56243	+++++				0.55580	5.622
158 m,p-Xylene	+++++	0.67481	0.63902	0.63767	0.64445	0.64388		
	0.63345	0.63344	0.69432				0.65013	3.424
159 2-Nitropropane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
160 bis(chloromethyl) Ether	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
161 1-Octene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
162 Epichlorohydrin	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
163 2-Chloroethyl Vinyl Ether	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
164 o-Xylene	+++++	0.62320	0.64348	0.61211	0.64029	0.61923		
	0.61359	0.61455	0.61674				0.62290	1.967

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Start Cal Date : 19-MAY-2021 14:02
End Cal Date : 20-MAY-2021 00:05
Quant Method : ISTD
Origin : Disabled
Target Version : 3.60
Integrator : HP RTE
Method file : /chem/msdp.i/19MAY21.b/p21q0519a.m
Cal Date : 20-May-2021 11:07 lk8g
Curve Type : Average

Compound	0.40000 Level 2	0.80000 Level 3	2.000 Level 4	5.000 Level 5	20.000 Level 6	50.000 Level 7	___ RRF	% RSD
	100.000 Level 8	200.000 Level 9	0.50000 Level 10					
165 Styrene	+++++	1.11525	1.07016	1.03759	1.05319	1.04745		
	1.04414	1.04408	1.11034				1.06528	2.899
166 2-Heptanone	3.67167	3.65906	3.63687	3.79847	3.47203	3.63504		
	3.74717	3.74578	+++++				3.67076	2.721
167 Bromoform	+++++	0.73776	0.73139	0.72964	0.73975	0.76576		
	0.77834	0.78519	0.72346				0.74891	3.192
168 Cumene	+++++	2.00688	1.92184	1.93874	2.01036	1.95640		
	1.93477	1.91851	1.96634				1.95673	1.829
169 Cyclohexanone	+++++	0.76224	0.72554	0.66914	0.71016	0.68589		
	0.67623	0.66926	+++++				0.69978	4.981
171 Vinyl Cyclohexene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
172 D-Limonene	0.41095	0.35482	0.36589	0.34451	0.78397	0.78575		
	0.74309	0.72747	+++++				0.56456	37.333 <-
173 Ethyl Methacrylate	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
174 1-Chloro-2-Bromopropane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++

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	100.000 Level 8	200.000 Level 9	0.50000 Level 10					
175 1,1,2,2-Tetrachloroethane	+++++	0.98352	0.94583	0.93628	0.96719	0.95406		
	0.94385	0.94078	0.96890				0.95505	1.733
176 1-Nitropropane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
177 Bromobenzene	+++++	0.57508	0.60639	0.58293	0.59010	0.60294		
	0.60418	0.60421	+++++				0.59512	2.090
178 Propylbenzene	+++++	0.60804	0.57139	0.56757	0.59410	0.57645		
	0.57084	0.56325	0.58989				0.58019	2.677
179 1,2,3-Trichloropropane	+++++	0.31533	0.32131	0.28626	0.30096	0.29557		
	0.29066	0.28564	0.33945				0.30440	6.324
180 Bromodichloroethane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
181 trans-1,4-Dichloro-2-butene	+++++	0.19277	0.21017	0.19835	0.19195	0.20110		
	0.20192	0.20059	+++++				0.19955	3.082
182 Decane	+++++	1.79609	1.57143	1.44505	1.61070	1.49654		
	1.37373	1.36070	+++++				1.52203	10.036
183 4-Ethyltoluene	+++++	0.65033	0.64054	0.60196	0.63791	0.61418		
	0.60505	0.58832	0.70940				0.63096	6.073

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	100.000 Level 8	200.000 Level 9	0.50000 Level 10					
184 2-Chlorotoluene	+++++	0.49984	0.49658	0.48311	0.50814	0.48663		
	0.47710	0.47426	0.52646				0.49401	3.541
185 1,3,5-Trimethylbenzene	+++++	0.88840	0.83919	0.85191	0.89900	0.86876		
	0.85974	0.86328	0.87938				0.86871	2.254
186 4-Chlorotoluene	0.50588	0.49708	0.52780	0.52855	0.50077	0.52139		
	0.50962	0.50476	+++++				0.51198	2.399
187 Diisobutyl Ketone	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
188 alpha Methyl Styrene	+++++	0.86535	0.87923	0.83462	0.89343	0.87794		
	0.86963	0.86867	0.81509				0.86300	2.969
189 tert-Butylbenzene	+++++	1.62733	1.62633	1.57945	1.65095	1.62250		
	1.63890	1.62816	+++++				1.62480	1.368
190 1,2,4-Trimethylbenzene	+++++	1.70877	1.62174	1.59089	1.69054	1.63659		
	1.62056	1.60514	1.64323				1.63968	2.487
191 Pentachloroethane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
192 sec-Butylbenzene	+++++	0.49560	0.50610	0.49423	0.52391	0.50675		
	0.50351	0.50154	0.50833				0.50500	1.821

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	100.000 Level 8	200.000 Level 9	0.50000 Level 10					
193 bis(2-Chloroethyl) Ether	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
194 p-Cymene	+++++	2.30462	2.16921	2.12863	2.30933	2.22972		
	2.20755	2.18683	2.32036				2.23203	3.228
195 1,3-Dichlorobenzene	+++++	1.15658	1.15643	1.11720	1.11291	1.12849		
	1.10749	1.10683	1.09255				1.12231	2.086
196 1,4-Dichlorobenzene	+++++	1.16982	1.13485	1.12938	1.10992	1.14109		
	1.13566	1.13005	1.12236				1.13414	1.523
197 1,2,3-Trimethylbenzene	0.74930	0.74831	0.73294	0.73383	0.76340	0.76689		
	0.73531	0.73354	+++++				0.74544	1.857
198 1-Nonene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
199 alpha-Chlorotoluene	+++++	1.51181	1.54888	1.53627	1.57168	1.58619		
	1.58130	1.57052	1.55269				1.55742	1.609
200 1-Chlorohexane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
201 Undecane	+++++	1.88866	1.82307	1.77843	1.79835	1.77435		
	1.69116	1.55266	+++++				1.75810	6.155

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	100.000 Level 8	200.000 Level 9	0.50000 Level 10					
202 Butylbenzene	+++++	0.58573	0.58249	0.55423	0.58167	0.56357		
	0.53997	0.53683	0.59066				0.56690	3.760
203 Butyl Ether	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
204 1,2-Dichlorobenzene	+++++	1.10407	1.12539	1.09831	1.11450	1.09041		
	1.07307	1.07027	1.12778				1.10047	1.987
205 Hexachloroethane	0.25905	0.24933	0.20237	0.17807	0.37549	0.37170		
	0.35119	0.35730	+++++				0.29306	27.359
206 1,2-Dibromo-3-chloropropane	+++++	+++++	0.65994	0.64226	0.67551	0.68086		
	0.67149	0.66910	+++++				0.66653	2.068
207 Dodecane	+++++	1.08884	1.29307	1.39322	1.32012	1.47555		
	1.50880	1.50906	1.55944				1.39351	11.157
208 1,3,5-Trichlorobenzene	1.03535	1.05171	1.06253	1.06764	0.99487	1.06875		
	1.05551	1.04770	+++++				1.04801	2.304
209 1-Decene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
210 alpha-Pinene	0.88866	0.92999	0.95994	0.95225	1.08022	1.15606		
	1.13931	1.16647	+++++				1.03411	10.952

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	100.000 Level 8	200.000 Level 9	0.50000 Level 10						
211 1,4-Dichloro-2-Butene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	
212 3-Ethyltoluene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	
213 1,2,4-Trichlorobenzene	+++++	0.73365	0.82349	0.83826	0.78299	0.83257			
	0.83665	0.84391	+++++				0.81307	4.981	
214 beta-Pinene	0.45942	0.49034	0.48541	0.49081	0.86434	0.92317			
	0.87191	0.83101	+++++				0.67705	31.130	<-
215 Hexachlorobutadiene	+++++	0.49305	0.57072	0.57784	0.56417	0.59160			
	0.59973	0.60841	+++++				0.57222	6.696	
216 Naphthalene	+++++	2.17464	2.22406	2.02701	1.91757	2.04984			
	2.05935	2.09326	+++++				2.07796	4.828	
217 Limonene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	
218 Benzaldehyde	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	
219 Indan	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	

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	100.000 Level 8	200.000 Level 9	0.50000 Level 10					
220 Indene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
221 Isobutylbenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
222 1,2,3-Trichlorobenzene	+++++	0.63662	0.72700	0.71965	0.68156	0.74340		
	0.75801	0.76517	+++++				0.71877	6.351
223 2-Ethyltoluene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
224 1-Undecene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
225 4-Ethyl-1,2-dimethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
226 1,3-Diethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
227 1,4-Diethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
228 1,2,4,5-tetramethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++

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229 1-Dodecene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
230 Nitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
231 Tridecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
232 2-Methylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
233 1,3,5-Triethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M 234 1,2-Dichloroethene (Total)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M 235 Chlorobutane (Total)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M 236 Total Xylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M 237 3 and 4-Ethyltoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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238 Total Volatile Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
239 TPH reference to Hexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
240 TPH reference to Heptane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
241 TPH reference to Gasoline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
242 TPH reference MineralSpirits	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
243 TPH reference to Stoddard	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
244 TVOC reference to Hexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
245 TVOC reference to Heptane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
246 TVOC reference to Toluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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247 TVOC reference to Toluene-d8	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
248 NMOC reference to Hexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
249 NMOC reference to Heptane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
250 NMOC reference to Toluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
251 C3 - C4 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
252 C4 - C5 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
253 C5 - C6 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
254 C6 - C7 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
255 C7 - C8 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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256 C8 - C9 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
257 C9 - C10 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
258 C10+ Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
259 C5 - C6 Aliphatic ref C5 + C6	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
260 C6-C8 Aliphatic ref Heptane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
261 C8-C10 Aliphatic ref Decane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
262 C10-C12 Aliphatic ref Dodecan	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
263 C8-C10 Aromatic	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
264 C8-C10 Aromatic ref 1,2,3-TMB	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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	100.000 Level 8	200.000 Level 9	0.50000 Level 10					
265 C10-C12 Aromatic	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
266 C10-C12 Aromatic 1,2,4,5-TMB	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
267 C10-C12 Aromatic Naphthalene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
$ 104 1,2-Dichloroethane-d4	+++++	1.29421	1.33794	1.42747	1.32413	1.34572		
	1.44423	1.55619	1.30758				1.37968	6.488
$ 133 Benzene-d6	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
$ 134 Toluene-d8	+++++	1.07349	1.09274	1.09966	1.07597	1.08471		
	1.09026	1.08938	1.07858				1.08560	0.834
$ 170 4-Bromofluorobenzene	+++++	0.64219	0.64090	0.63876	0.63357	0.63698		
	0.64598	0.65756	0.63983				0.64197	1.133

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Target Version : 3.60
Integrator : HP RTE
Method file : /chem/msdp.i/19MAY21.b/p21q0519a.m
Cal Date : 20-May-2021 11:07 lk8g
Curve Type : Average

Average %RSD Results.
Calculated Average %RSD = 7.06874
Maximun Average %RSD = 30.00000
* Passed Average %RSD Test.

Report Date: 20-May-2021 11:06

Calibration History

Method : /chem/msdp.i/19MAY21.b/p21q0519a.m
Start Cal Date: 19-MAY-2021 14:02
End Cal Date : 20-MAY-2021 00:05

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 2 , Cal Amount: 0.40000		
19-MAY-2021 19:17	AT20spICAL	/chem/msdp.i/19MAY21.b/p051914.d
Cal Level: 3 , Cal Amount: 0.80000		
19-MAY-2021 19:45	AT20spICAL	/chem/msdp.i/19MAY21.b/p051915.d
19-MAY-2021 14:02	AT20_Level3	/chem/msdp.i/19MAY21.b/p051904.d
Cal Level: 4 , Cal Amount: 2.00000		
19-MAY-2021 20:13	AT20spICAL	/chem/msdp.i/19MAY21.b/p051916.d
19-MAY-2021 14:30	AT20ICAL	/chem/msdp.i/19MAY21.b/p051905.d
Cal Level: 5 , Cal Amount: 5.00000		
19-MAY-2021 20:43	AT20spICAL	/chem/msdp.i/19MAY21.b/p051917.d
19-MAY-2021 15:00	AT20ICAL	/chem/msdp.i/19MAY21.b/p051906.d
Cal Level: 6 , Cal Amount: 20.00000		
19-MAY-2021 21:10	AT20spICAL	/chem/msdp.i/19MAY21.b/p051918.d
19-MAY-2021 15:27	AT20ICAL	/chem/msdp.i/19MAY21.b/p051907.d
Cal Level: 7 , Cal Amount: 50.00000		
19-MAY-2021 21:38	AT20spICAL	/chem/msdp.i/19MAY21.b/p051919.d
19-MAY-2021 15:55	AT20ICAL	/chem/msdp.i/19MAY21.b/p051908.d
Cal Level: 8 , Cal Amount: 100.00000		
19-MAY-2021 22:07	AT20spICAL	/chem/msdp.i/19MAY21.b/p051920.d
19-MAY-2021 16:24	AT20ICAL	/chem/msdp.i/19MAY21.b/p051909.d

Cal Level: 9 , Cal Amount: 200.00000		
19-MAY-2021 22:39	AT20spICAL	/chem/msdp.i/19MAY21.b/p051921.d
19-MAY-2021 16:53	AT20ICAL	/chem/msdp.i/19MAY21.b/p051910.d

Cal Level: 10, Cal Amount: 0.50000		
20-MAY-2021 00:05	AT20_Level2	/chem/msdp.i/19MAY21.b/p051924.d

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 7

Ccal Level: 7 , Ccal Amount: 50.000		
19-MAY-2021 15:55	AT20ICAL	/chem/msdp.i/19MAY21.b/p051908.d
Ccal Level: 7 , Ccal Amount: 50.000		
19-MAY-2021 21:38	AT20spICAL	/chem/msdp.i/19MAY21.b/p051919.d

Initial Calibration Narrative (Extended)
P21Q0519a.m

A multi-point TO-15 initial calibration was analyzed on MSD-P on 05/19/21 and 05/20/21.

ICAL: 3 out. Iodomethane @ 32%, D-Limonene @ 37%, and beta-Pinene @ 31%
Naph RSD @ 4.8%

ICV: 3 out; Trans-1, 4-dichloro-2-butene @ 146%, Dodecane @ 153%, and 1,2,3-Trichlorobenzene @ 133%
File: P051925. Naph recovery: 117%
DODQSM: 3 out; Trans-1, 4-dichloro-2-butene @ 146%, Dodecane @ 153%, and 1,2,3-Trichlorobenzene @ 133% File: P051925a
DOD4.2: 0 (zero) out; File: P051925c
RCP: 0 (zero) RCP compounds out. 5 **Non-RCP** compounds outside 80-120%. File P051925d
DODsp: (PID 23339): 2 out; Trans-1, 4-dichloro-2-butene @ 146%, Dodecane @ 153% and 1,2,3-Trichlorobenzene @ 133 File: P051925e

The concentrations for Ethanol, Acrolein, 1,2,4-Trichlorobenzene, Naphthalene, 1,2,3-Trichlorobenzene, and Hexachlorobutadiene were adjusted in the ICV due to the certified concentration exceeding more than 15% of the nominal concentration.

An 8-point ICAL for AT20 supplemental compounds was analyzed on MSDP on 05/19/21-05/20/21.

An ICV was analyzed for the following AT20 supplemental compounds: 1,1,1,2-Tetrachloroethane.
ICV: 0 out; File: P051925
RCP Compounds: 0 RCP compounds out. File P051925d

ICAL Levels 1 and 2 were not included due to poor peak quality.

*****Bottom of the curve is 0.5ppbv; no TA RLs.*****

The RL for Isobutane was raised from 0.8ppbv to 2.0ppbv.

The concentrations for Dodecane, 1,2,4-TCB, Hexachlorobutadiene, 1,2,3-TCB, and Naphthalene were adjusted in the calibration due to the certified concentration exceeding more than 15% of the nominal concentration.
-Dodecane was curved at 0.618ppbv→ 247ppbv.
-1,2,4-TCB was curved at 1.01ppbv→252ppbv
-Hexachlorobutadiene was curved at 1.03ppbv→257ppbv
-1,2,3-TCB was curved at 1.06ppbv→266ppbv
-Naphthalene was curved at 0.10ppbv →25.4ppbv

BFB tune file:
1. P051901

The TO-15MDL study expires on 10/29/21.
Select specials MDL study expires 10/29/21.

Initial Calibration Narrative (TO-15)
P21Q0519a.m

A multi-point TO-15 initial calibration was analyzed on MSD-P on 05/19/21 and 05/20/21.

ICAL: 0 out
Naph RSD @ 4.8%

ICV: 0 (zero) out. File: P051925
Naph recovery: 117%.
DODQSM: 0 (zero) out. File: P051925a
DOD4.2: 0 (zero) out; P051925c
RCP: 0 (zero) RCP compounds out. 2 **Non-RCP** compounds outside 80-120%. File P051925d
DODsp: (PID 23339): 2 out; Trans-1, 4-dichloro-2-butene @ 146%, Dodecane @ 153% and 1,2,3-Trichlorobenzene @ 133 File: P051925e

The concentrations for Ethanol, 1,2,4-Trichlorobenzene, Naphthalene and Hexachlorobutadiene were adjusted in the ICV due to the certified concentration exceeding more than 15% of the nominal concentration.

ICAL Levels 1 and 2 were not included due to poor peak quality.

*****Bottom of the curve is 0.5ppbv; no TA RLs.*****

The RL for Isobutane was raised from 0.8ppbv to 2.0ppbv.

The concentrations for 1,2,4-TCB, Hexachlorobutadiene and Naphthalene were adjusted in the calibration due to the certified concentration exceeding more than 15% of the nominal concentration.

-1,2,4-TCB was curved at 1.01ppbv→252ppbv
-Hexachlorobutadiene was curved at 1.03ppbv→257ppbv
-Naphthalene was curved at 0.10ppbv →25.4ppbv

BFB tune file:
1. P051901

The TO-15MDL study expires on 10/29/21.

US32TAR1

INITIAL CALIBRATION DATA

Start Cal Date : 19-MAY-2021 14:02
End Cal Date : 20-MAY-2021 00:05
Quant Method : ISTD
Origin : Disabled
Target Version : 3.60
Integrator : HP RTE
Method file : /chem/msdp.i/19MAY21.b/p21q0519a.m
Cal Date : 20-May-2021 11:07 lk8g
Curve Type : Average

Please see Calibration History page(s) for all the calibration files.

UD 5/20/21

GH 5/20/21

Calibration File Names:
Level 2: /chem/msdp.i/19MAY21.b/p051914.d
Level 3: /chem/msdp.i/19MAY21.b/p051915.d
Level 4: /chem/msdp.i/19MAY21.b/p051916.d
Level 5: /chem/msdp.i/19MAY21.b/p051917.d
Level 6: /chem/msdp.i/19MAY21.b/p051918.d
Level 7: /chem/msdp.i/19MAY21.b/p051919.d
Level 8: /chem/msdp.i/19MAY21.b/p051920.d
Level 9: /chem/msdp.i/19MAY21.b/p051921.d
Level 10: /chem/msdp.i/19MAY21.b/p051924.d

Compound	0.40000 Level 2	0.80000 Level 3	2.000 Level 4	5.000 Level 5	20.000 Level 6	50.000 Level 7	___ RRF	% RSD
	100.000 Level 8	200.000 Level 9	0.50000 Level 10					
1 Dimethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
2 1,1-Dichloro-1-Fluoroethane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
3 Freon 143a	+++++	0.64347	0.55833	0.28699	0.48663	0.54132		
	0.53859	0.32618	+++++				0.48307	26.850
4 Freon 134a	+++++	0.77011	0.84089	0.78129	0.71828	0.77669		
	0.83041	0.82114	+++++				0.79126	5.405
5 Propylene	+++++	+++++	1.30044	1.16437	0.97808	1.08818		
	1.14258	1.19048	+++++				1.14402	9.390

MSDP

									Method TO-15/TO-14				
	BFB Verification of 176/174 ratio: (142592/146432)*100=97.37%								SOP# 6				
		3234-10	Exp. Date:		8/17/21				Vacuum:	NA			
	BCM	158,810							Please check all standards				
	1,4-DFB	597,103						Surr.# 3234-10	Exp. Date:	8/17/21	Surrogate# NA	Exp. Date:	NA
	CB-d5	587,747						CCV #3018-2034	Exp. Date:	8/17/21	LCS: #3018-2016	Exp. Date:	8/5/21
								CCV sp1# 3018-2045	Exp. Date:	8/17/21	LCS sp1 #	Exp. Date:	
								CCV sp2# 3018-1928	Exp. Date:	6/1/21	LCS sp2 #	Exp. Date:	
	Verified CCV vs ICAL mid-point(-40%): LD							CCV sp3# 3018-2013	Exp. Date:	8/4/21	LCS sp3 #	Exp. Date:	
	Method: p21q0519a.m												

	File #	Enter/Scan Sample ID#	Constant#	Cart Pos.	Pressure	mL	DF	Verify Lead	Loaded Init	Date Analyzed	Time	Review Init	Comments
√	P051901	BFB Tune Check	3234-10	4	36ng	200mL	1.00	LD	LD	5/19/2021	1139	LD	Exp. 8/17/21
X	P051902	ICAL Level 1	3018-2045	1	0.3ppbv (5.0ppbv)	12mL	1.00	LD	LD	5/19/2021	1224	LD	Exp. 8/17/21. Poor peak quality.
X	P051903	ICAL Level 2	3018-2045	1	0.4ppbv (5.0ppbv)	16mL	1.00	LD	LD	5/19/2021	1252	LD	Poor peak quality.
√	P051904	ICAL Level 3	3018-2045	1	0.8ppbv (5.0ppbv)	32mL	1.00	gh	LD	5/19/2021	1402	LD	
√	P051905	ICAL Level 4	3018-2045	1	2.0ppbv (5.0ppbv)	80mL	1.00	gh	LD	5/19/2021	1430	LD	
√	P051906	ICAL Level 5	3018-2045	1	5.0ppbv (5.0ppbv)	200mL	1.00	gh	LD	5/19/2021	1500	LD	
√	P051907	ICAL Level 6	3018-2034	13	20ppbv (200ppbv)	20mL	1.00	gh	LD	5/19/2021	1527	LD	Exp. 8/17/21.
√	P051908	ICAL Level 7	3018-2034	13	50ppbv (200ppbv)	50mL	1.00	gh	LD	5/19/2021	1555	LD	
√	P051909	ICAL Level 8	3018-2034	13	100ppbv (200ppbv)	100mL	1.00	gh	LD	5/19/2021	1624	LD	
√	P051910	ICAL Level 9	3018-2034	13	200ppbv (200ppbv)	200mL	1.00	gh	LD	5/19/2021	1653	LD	
√	P051911	System Blank	35157	4	Humid	200mL	1.00	gh	LD	5/19/2021	1723	LD	
√	P051912	System Blank	35157	4	Humid	200mL	1.00	gh	gh	5/19/2021	1809	LD	
X	P051913	ICAL Level 2	3018-2045	1	0.4ppbv (5.0ppbv)	16mL	1.00	gh	gh	5/19/2021	1849	LD	Exp. 8/17/21. Poor peak quality.
√	P051914	ICAL Level 2	3018-1928	2	0.4ppbv (5.0ppbv)	16mL	1.00	gh	gh	5/19/2021	1917	LD	Exp. 6/1/21.
√	P051915	ICAL Level 3	3018-1928	2	0.8ppbv (5.0ppbv)	32mL	1.00	gh	gh	5/19/2021	1945	LD	
√	P051916	ICAL Level 4	3018-1928	2	2.0ppbv (5.0ppbv)	80mL	1.00	gh	gh	5/19/2021	2013	LD	
√	P051917	ICAL Level 5	3018-1928	2	5.0ppbv (5.0ppbv)	200mL	1.00	gh	gh	5/19/2021	2043	LD	
√	P051918	ICAL Level 6	3018-2013	3	20ppbv (200ppbv)	20mL	1.00	gh	gh	5/19/2021	2110	LD	Exp. 8/4/21.
√	P051919	ICAL Level 7	3018-2013	3	50ppbv (200ppbv)	50mL	1.00	gh	gh	5/19/2021	2138	LD	
√	P051920	ICAL Level 8	3018-2013	3	100ppbv (200ppbv)	100mL	1.00	gh	gh	5/19/2021	2207	LD	
√	P051921	ICAL Level 9	3018-2013	3	200ppbv (200ppbv)	200mL	1.00	LD	gh	5/19/2021	2239	LD	
√	P051922	System Blank	35157	4	Humid	200mL	1.00	LD	gh	5/19/2021	2308	LD	
√	P051923	System Blank	35157	4	Humid	200mL	1.00	LD	gh	5/19/2021	2338	LD	
√	P051924	ICAL Level 10	3018-2045	1	0.5ppbv (5.0ppbv)	20mL	1.00	LD	gh	5/20/2021	0005	LD	Exp. 8/17/21.
√	P051925	ICV	3018-2016	14	50ppbv (200ppbv)	50mL	1.00	LD	gh	5/20/2021	0033	LD	Exp. 8/5/21.

MB 5/20/21

IS and Associated Target Compounds and Surr.
Instruction #: I1.20

Modified EPA Methods TO-14A/TO-15
Internal Standard and Associated Target Compounds and Surrogates

Bromochloromethane*
Target Compounds:
Freon 12
Freon 114
Chloromethane
Vinyl Chloride
1,3-Butadiene
Bromomethane
Chloroethane
Freon 11
Ethanol
Freon 113
1,1-Dichloroethene
Acetone
2-Propanol
Carbon Disulfide
3-Chloropropene
Methylene Chloride
Methyl tert-butyl ether
trans-1,2-Dichloroethene
Hexane
1,1-Dichloroethane
2-Butanone (Methyl Ethyl Ketone)
cis-1,2-Dichloroethene
Tetrahydrofuran
Chloroform
1,1,1-Trichloroethane
Cyclohexane
Carbon Tetrachloride
2,2,4-Trimethylpentane
Surrogates:
1,2-Dichloroethane-d4

1,4-Difluorobenzene
Target Compounds:
Benzene
1,2-Dichloroethane
Heptane
Trichloroethene
1,2-Dichloropropane
1,4-Dioxane
Bromodichloromethane
cis-1,3-Dichloropropene
4-Methyl-2-pentanone
Toluene
Surrogates:
Toluene-d8

Chlorobenzene-d5
Target Compounds:
trans-1,3-Dichloropropene
1,1,2-Trichloroethane
Tetrachloroethene
2-Hexanone
Dibromochloromethane
1,2-Dibromoethane (EDB)
Chlorobenzene
Ethyl Benzene
m,p-Xylene
o-Xylene
Styrene
Bromoform
Cumene
1,1,2,2-Tetrachloroethane
Propylbenzene
4-Ethyltoluene
1,3,5-Trimethylbenzene
1,2,4-Trimethylbenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
alpha-Chlorotoluene
1,2-Dichlorobenzene
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Surrogates:
Bromofluorobenzene

*Note: If Bromochloromethane (BCM) is required as a target compound, the internal standard mix is blended without BCM. Compounds and surrogates assigned to BCM are re-assigned to 1,4-Difluorobenzene for calibration and subsequent quantitation.

US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/19MAY21.b/p051914.d
Lab Smp Id: ICAL Level 2
Inj Date : 19-MAY-2021 19:17
Operator : gh Inst ID: msdp.i
Smp Info : 16mL 3018-1928
Misc Info : 0.4ppbv (5.0ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/19MAY21.b/p21q0519a.m
Meth Date : 20-May-2021 09:50 lk8g Quant Type: ISTD
Cal Date : 19-MAY-2021 19:17 Cal File: p051914.d
Als bottle: 2 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT20spICAL.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 90 Bromochloromethane					CAS #: 74-97-5		
5.778	5.778 (1.000)	130	163890	25.0000		80.00- 120.00	100.00
5.778	5.778 (1.000)	128	127715			48.23- 108.23	77.93
5.771	5.778 (1.000)	49	296851			150.57- 210.57	181.13
* 108 1,4-Difluorobenzene					CAS #: 540-36-3		
6.659	6.659 (1.000)	114	600935	25.0000		80.00- 120.00	100.00
6.659	6.659 (1.000)	88	93335			0.00- 45.71	15.53
* 153 Chlorobenzene-d5					CAS #: 3114-55-4		
9.460	9.460 (1.000)	117	587965	25.0000		80.00- 120.00	100.00
9.453	9.460 (1.000)	82	324501			23.78- 83.78	55.19
6 Propane					CAS #: 74-98-6		
1.675	1.674 (0.290)	43	941	0.40000	0.3085	80.00- 120.00	100.00(a)
1.675	1.674 (0.290)	39	1309			34.98- 94.98	139.11
1.689	1.674 (0.292)	41	861			25.22- 85.22	91.50
13 Freon 142b					CAS #: 75-68-3		
1.884	1.884 (0.326)	65	7562	0.40000	0.4489	80.00- 120.00	100.00(a)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
13 Freon 142b (continued)							
1.898	1.884 (0.329)	45	2247			0.00- 59.77	29.71
36 1-Pentene					CAS #: 109-67-1		
2.891	2.906 (0.500)	55	5405	0.40000	0.4946	80.00- 120.00	100.00(a)
2.899	2.906 (0.502)	42	6051			105.17- 165.17	111.95
40 Freon 123a					CAS #: 354-23-4		
3.378	3.385 (0.585)	117	4396	0.40000	0.4147	80.00- 120.00	100.00(a)
3.378	3.378 (0.585)	67	4936			104.69- 164.69	112.28
41 Freon 123					CAS #: 306-83-2		
3.464	3.479 (0.600)	83	5862	0.40000	0.3993	80.00- 120.00	100.00(a)
3.486	3.479 (0.603)	133	1216			0.00- 50.87	20.74
3.472	3.479 (0.601)	85	3801			36.08- 96.08	64.84
55 Cyclopentene					CAS #: 142-29-0		
4.073	4.073 (0.705)	67	5709	0.40000	0.3618	80.00- 120.00	100.00(a)
4.066	4.073 (0.704)	68	2522			6.76- 66.76	44.18
4.066	4.073 (0.704)	53	1675			0.00- 57.54	29.34
56 Methyl Acetate					CAS #: 79-20-9		
4.080	4.073 (0.706)	43	7233	0.40000	0.3918	80.00- 120.00	100.00(a)
4.080	4.073 (0.706)	74	768			0.00- 44.13	10.62
74 Chloroprene					CAS #: 126-99-8		
5.019	5.019 (0.869)	53	5621	0.40000	0.3852	80.00- 120.00	100.00(a)
5.019	5.019 (0.869)	88	2057			9.21- 69.21	36.59
5.012	5.019 (0.867)	50	1789			0.00- 54.25	31.83
75 1-Propanol					CAS #: 71-23-8		
5.098	5.083 (0.882)	59	912	0.40000	0.4010	80.00- 120.00	100.00(a)
5.098	5.083 (0.882)	42	931			63.23- 123.23	102.08
5.105	5.083 (0.883)	41	494			24.74- 84.74	54.17
88 Methyl Acrylate					CAS #: 96-33-3		
5.628	5.620 (0.974)	55	8316	0.40000	0.4277	80.00- 120.00	100.00(a)
5.621	5.620 (0.973)	85	1426			0.00- 41.28	17.15
5.628	5.620 (0.974)	58	1499			0.00- 38.22	18.03
103 Isobutanol					CAS #: 78-83-1		
6.244	6.244 (1.081)	39	1428	0.40000	0.5920	80.00- 120.00	100.00(a)
6.244	6.244 (1.081)	43	3902			448.18- 508.18	273.25
6.244	6.244 (1.081)	41	2603			299.99- 359.99	182.28
113 Ethyl acrylate					CAS #: 140-88-5		
6.939	6.938 (0.733)	99	550	0.40000	0.3922	80.00- 120.00	100.00(a)

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
113 Ethyl acrylate (continued)							
6.939	6.938 (0.733)	45	1161			149.95- 209.95	211.09
6.939	6.938 (0.733)	55	9624			1849.07-1909.07	1749.82
115 2-Pentanone					CAS #: 107-87-9		
7.032	7.031 (0.743)	43	11468	0.40000	0.3804	80.00- 120.00	100.00(a)
7.039	7.031 (0.744)	58	1303			0.00- 37.44	11.36
7.032	7.031 (0.743)	86	1613			0.00- 42.78	14.07
145 Butyl Acetate					CAS #: 123-86-4		
8.665	8.665 (1.301)	56	6054	0.40000	0.3952	80.00- 120.00	100.00(a)
8.665	8.665 (1.301)	73	2892			0.00- 59.10	47.77
8.665	8.657 (1.301)	43	14727			215.30- 275.30	243.26
157 1,1,1,2-Tetrachloroethane					CAS #: 630-20-6		
9.596	9.596 (1.014)	131	5765	0.40000	0.4440	80.00- 120.00	100.00(a)
9.460	9.460 (1.000)	117	587965			57.42- 117.42	10198.87
9.596	9.596 (1.014)	95	2522			5.70- 65.70	43.75
166 2-Heptanone					CAS #: 110-43-0		
10.362	10.362 (1.793)	58	9628	0.40000	0.3991	80.00- 120.00	100.00(a)
10.362	10.362 (1.793)	43	17002			136.03- 196.03	176.59
172 D-Limonene					CAS #: 5989-27-5		
12.089	12.089 (1.278)	68	3866	0.40000	0.3634	80.00- 120.00	100.00(a)
12.089	12.089 (1.278)	93	2278			39.41- 99.41	58.92
186 4-Chlorotoluene					CAS #: 106-43-4		
11.444	11.444 (1.210)	126	4759	0.40000	0.3920	80.00- 120.00	100.00(a)
11.444	11.444 (1.210)	91	14696			295.02- 355.02	308.80
11.437	11.444 (1.209)	63	2158			11.82- 71.82	45.35
197 1,2,3-Trimethylbenzene					CAS #: 526-73-8		
12.318	12.318 (1.302)	120	7049	0.40000	0.4016	80.00- 120.00	100.00(a)
12.318	12.318 (1.302)	105	15461			192.40- 252.40	219.34
12.318	12.318 (1.302)	77	2242			0.00- 54.69	31.81
205 Hexachloroethane					CAS #: 67-72-1		
12.963	12.970 (1.370)	201	2437	0.40000	0.4110	80.00- 120.00	100.00(a)
12.963	12.970 (1.370)	117	3360			102.99- 162.99	137.87
208 1,3,5-Trichlorobenzene					CAS #: 108-70-3		
13.758	13.758 (1.454)	180	9740	0.40000	0.3917	80.00- 120.00	100.00(a)
13.758	13.758 (1.454)	182	8432			65.24- 125.24	86.57
210 alpha-Pinene					CAS #: 80-56-8		
10.599	10.599 (1.120)	93	8360	0.40000	0.3637	80.00- 120.00	100.00(a)

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
210 alpha-Pinene (continued)							
10.599	10.599 (1.120)	77	2517			0.00- 58.21	30.11
214 beta-Pinene					CAS #: 127-91-3		
11.415	11.422 (1.207)	93	4322	0.40000	0.3225	80.00- 120.00	100.00(a)
11.444	11.444 (1.210)	91	14696			153.57- 213.57	340.03

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p051914.d
Lab Smp Id: ICAL Level 2
Analysis Type: VOA
Quant Type: ISTD
Operator: gh
Method File: /chem/msdp.i/19MAY21.b/p21q0519a.m
Misc Info: 0.4ppbv (5.0ppbv)

Calibration Date: 19-MAY-2021
Calibration Time: 15:55
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	158810	95286	222334	163890	3.20
108 1,4-Difluorobenze	597103	358262	835944	600935	0.64
153 Chlorobenzene-d5	587747	352648	822846	587965	0.04

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.78	5.45	6.11	5.78	-0.00
108 1,4-Difluorobenze	6.66	6.33	6.99	6.66	-0.00
153 Chlorobenzene-d5	9.46	9.13	9.79	9.46	-0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msdp.i/19MAY21.b/p051914.d

Date : 19-MAY-2021 19:17

Client ID:

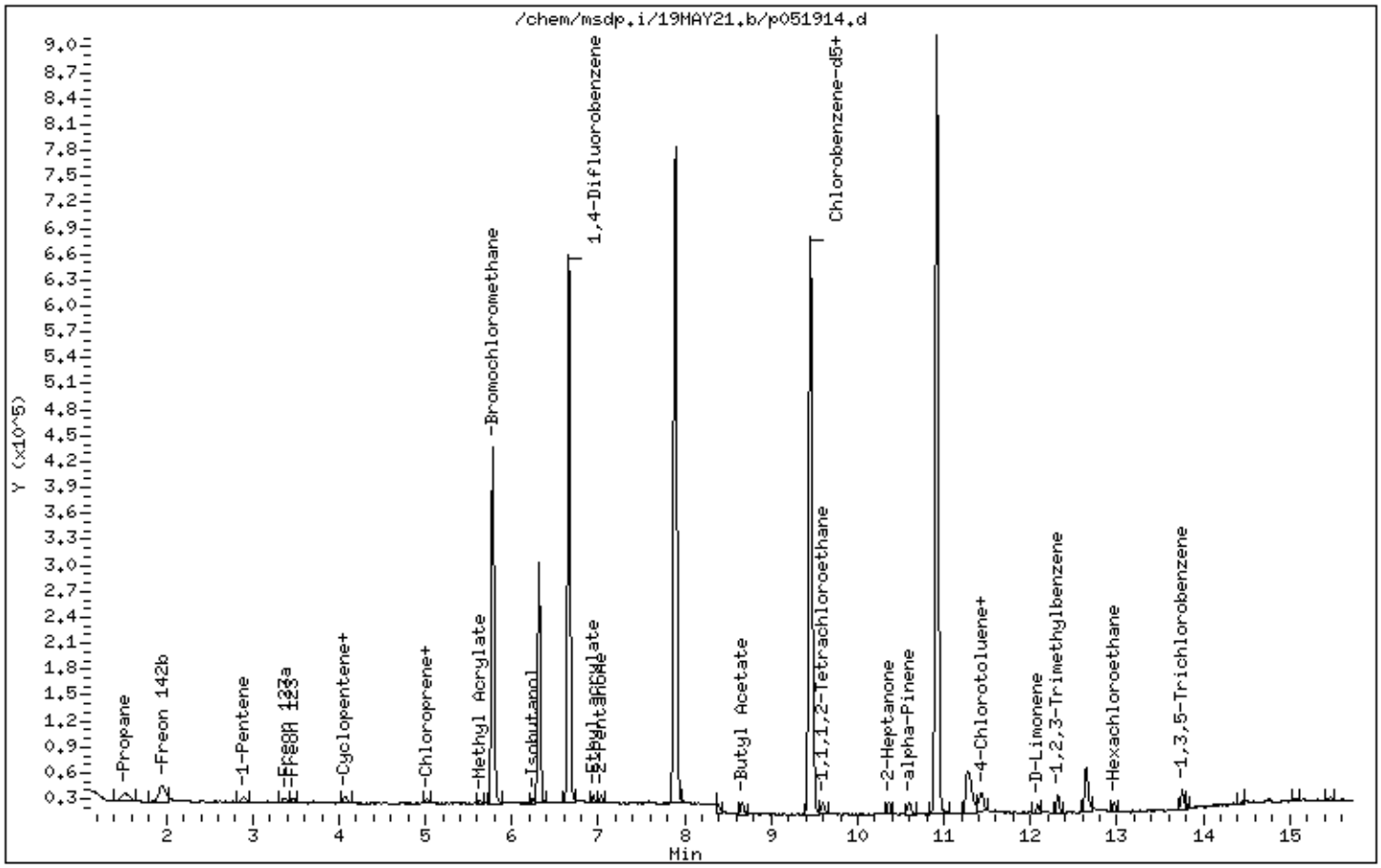
Instrument: msdp.i

Sample Info: 16mL 3018-1928

Operator: gh

Column phase: RTX-624

Column diameter: 0.25



US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/19MAY21.b/p051904.d
Lab Smp Id: ICAL Level 3
Inj Date : 19-MAY-2021 14:02
Operator : LD Inst ID: msdp.i
Smp Info : 32mL 3018-2045
Misc Info : 0.8ppbv (5.0ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/19MAY21.b/p21q0519a.m
Meth Date : 20-May-2021 11:07 lk8g Quant Type: ISTD
Cal Date : 19-MAY-2021 19:45 Cal File: p051915.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT20_Level3.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
4 Freon 134a					CAS #: 811-97-2		
1.633	1.633 (0.283)	83	4069	0.80000	0.7786	80.00- 120.00	100.00(a)
1.633	1.633 (0.283)	69	3525			59.44- 119.44	86.63
1.744	1.745 (0.302)	51	16724			419.06- 479.06	411.01
8 Freon 12					CAS #: 75-71-8		
1.717	1.717 (0.297)	85	10010	0.80000	0.6759	80.00- 120.00	100.00
1.717	1.717 (0.297)	87	3731			2.37- 62.37	37.27
9 Chlorodifluoromethane					CAS #: 75-45-6		
1.744	1.745 (0.302)	67	1006	0.80000	0.6877	80.00- 120.00	100.00
1.744	1.745 (0.302)	51	16724			1501.01-1561.01	1662.43
10 Freon 114					CAS #: 76-14-2		
1.842	1.856 (0.319)	135	11608	0.80000	0.7985	80.00- 120.00	100.00
1.842	1.856 (0.319)	137	3024			2.30- 62.30	26.05
19 Vinyl Chloride					CAS #: 75-01-4		
2.068	2.068 (0.358)	62	8652	0.80000	0.8371	80.00- 120.00	100.00
2.060	2.068 (0.357)	64	2015			0.00- 59.69	23.29

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
20 1,3-Butadiene					CAS #: 106-99-0		
2.089	2.089 (0.362)	54	6127	0.80000	0.7370	80.00- 120.00	100.00
2.082	2.089 (0.360)	39	6271			52.37- 112.37	102.35
32 Vinyl Bromide					CAS #: 593-60-2		
2.834	2.841 (0.490)	106	4730	0.80000	0.7700	80.00- 120.00	100.00
2.834	2.841 (0.490)	108	4577			69.27- 129.27	96.77
33 Freon 11					CAS #: 75-69-4		
2.884	2.884 (0.499)	101	12538	0.80000	0.7967	80.00- 120.00	100.00
2.884	2.884 (0.499)	103	8055			34.72- 94.72	64.24
34 Dichlorofluoromethane					CAS #: 75-43-4		
2.891	2.899 (0.500)	67	11113	0.80000	0.8193	80.00- 120.00	100.00(a)
2.891	2.899 (0.500)	69	4116			0.84- 60.84	37.04
35 Pentane					CAS #: 109-66-0		
2.963	2.970 (0.513)	43	15312	0.80000	0.8330	80.00- 120.00	100.00
2.970	2.970 (0.514)	57	3948			0.00- 44.98	25.78
2.970	2.970 (0.514)	72	1224			0.00- 37.39	7.99
38 Ethyl Ether					CAS #: 60-29-7		
3.300	3.285 (0.571)	74	2195	0.80000	0.7078	80.00- 120.00	100.00
3.285	3.285 (0.569)	59	5814			163.46- 223.46	264.87
3.278	3.285 (0.567)	45	7546			250.40- 310.40	343.78
43 Freon 113					CAS #: 76-13-1		
3.550	3.550 (0.614)	151	8777	0.80000	0.7507	80.00- 120.00	100.00
3.550	3.550 (0.614)	153	5991			33.56- 93.56	68.26
3.550	3.550 (0.614)	101	10762			89.21- 149.21	122.62
44 1,1-Dichloroethene					CAS #: 75-35-4		
3.572	3.579 (0.618)	96	5973	0.80000	0.8551	80.00- 120.00	100.00
3.572	3.579 (0.618)	98	4228			34.02- 94.02	70.79
3.572	3.579 (0.618)	61	10403			168.77- 228.77	174.17
54 3-Chloropropene					CAS #: 107-05-1		
4.037	4.052 (0.699)	76	2453	0.80000	0.7979	80.00- 120.00	100.00
4.045	4.052 (0.700)	41	9150			396.19- 456.19	373.01
63 Methyl tert-butyl ether					CAS #: 1634-04-4		
4.446	4.446 (0.769)	73	16920	0.80000	0.8344	80.00- 120.00	100.00
4.453	4.446 (0.771)	57	5536			3.10- 63.10	32.72
4.446	4.446 (0.769)	41	6146			1.28- 61.28	36.32
64 trans-1,2-Dichloroethene					CAS #: 156-60-5		
4.474	4.482 (0.774)	98	3718	0.80000	0.7966	80.00- 120.00	100.00

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
64 trans-1,2-Dichloroethene (continued)							
4.474	4.482 (0.774)	61	9389			255.84- 315.84	252.53
4.474	4.482 (0.774)	96	5939			127.59- 187.59	159.74
66 Acrylonitrile					CAS #: 107-13-1		
4.553	4.560 (0.788)	52	5732	0.80000	0.8823	80.00- 120.00	100.00
4.553	4.560 (0.788)	53	5440			88.05- 148.05	94.91
67 Hexane					CAS #: 110-54-3		
4.696	4.697 (0.813)	57	12522	0.80000	0.7698	80.00- 120.00	100.00
4.696	4.697 (0.813)	43	8321			37.52- 97.52	66.45
4.696	4.697 (0.813)	86	1347			0.00- 41.48	10.76
71 1,1-Dichloroethane					CAS #: 75-34-3		
4.962	4.962 (0.859)	63	11204	0.80000	0.8012	80.00- 120.00	100.00
4.962	4.962 (0.859)	65	3451			0.00- 59.70	30.80
84 2,2-Dichloropropane					CAS #: 594-20-7		
5.506	5.506 (0.953)	77	9403	0.80000	0.7573	80.00- 120.00	100.00(a)
5.506	5.506 (0.953)	79	3306			2.28- 62.28	35.16
5.506	5.506 (0.953)	97	2804			0.00- 53.93	29.82
85 cis-1,2-Dichloroethene					CAS #: 156-59-2		
5.542	5.549 (0.959)	98	3329	0.80000	0.6873	80.00- 120.00	100.00
5.542	5.549 (0.959)	96	6335			125.75- 185.75	190.30
5.542	5.549 (0.959)	61	13408			332.40- 392.40	402.76
89 Tetrahydrofuran					CAS #: 109-99-9		
5.778	5.771 (1.000)	42	10221	0.80000	0.8235	80.00- 120.00	100.00
5.778	5.771 (1.000)	71	1918			0.00- 55.82	18.77
5.778	5.771 (1.000)	72	2670			0.00- 57.59	26.12
* 90 Bromochloromethane					CAS #: 74-97-5		
5.778	5.778 (1.000)	130	165114	25.0000		80.00- 120.00	100.00
5.778	5.778 (1.000)	128	125643			48.23- 108.23	76.09
5.771	5.778 (1.000)	49	294417			150.57- 210.57	178.31
92 Chloroform					CAS #: 67-66-3		
5.835	5.835 (1.010)	83	10789	0.80000	0.7510	80.00- 120.00	100.00
5.835	5.835 (1.010)	85	7171			34.70- 94.70	66.47
94 Cyclohexane					CAS #: 110-82-7		
5.957	5.957 (1.031)	84	7575	0.80000	0.7293	80.00- 120.00	100.00
5.957	5.957 (1.031)	56	14971			142.57- 202.57	197.64
5.957	5.957 (1.031)	41	7502			62.09- 122.09	99.04

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
96 1,1,1-Trichloroethane					CAS #: 71-55-6		
5.964	5.972 (1.032)	97	13006	0.80000	0.8014	80.00- 120.00	100.00
5.971	5.972 (1.033)	99	7613			34.02- 94.02	58.53
97 Carbon Tetrachloride					CAS #: 56-23-5		
6.086	6.086 (1.053)	119	11896	0.80000	0.7815	80.00- 120.00	100.00
6.086	6.086 (1.053)	117	10211			70.64- 130.64	85.84
99 1,1-Dichloropropene					CAS #: 563-58-6		
6.115	6.115 (0.918)	110	3371	0.80000	0.8170	80.00- 120.00	100.00(a)
6.115	6.115 (0.918)	75	7643			226.85- 286.85	226.73
101 2,2,4-Trimethylpentane					CAS #: 540-84-1		
6.280	6.280 (1.087)	57	43641	0.80000	0.7719	80.00- 120.00	100.00
6.280	6.280 (1.087)	56	13299			2.24- 62.24	30.47
6.280	6.280 (1.087)	41	11333			0.00- 54.39	25.97
102 Benzene					CAS #: 71-43-2		
6.294	6.301 (0.945)	78	15237	0.80000	0.7617	80.00- 120.00	100.00
6.301	6.301 (0.946)	77	4544			0.00- 52.90	29.82
$ 104 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
6.308	6.308 (1.092)	65	213692	25.0000	23.451	80.00- 120.00	100.00
6.308	6.308 (1.092)	67	105735			27.21- 87.21	49.48
106 1,2-Dichloroethane					CAS #: 107-06-2		
6.380	6.380 (0.958)	62	8020	0.80000	0.7705	80.00- 120.00	100.00
6.380	6.380 (0.958)	64	2408			0.79- 60.79	30.02
107 Heptane					CAS #: 142-82-5		
6.444	6.444 (0.968)	71	5826	0.80000	0.7352	80.00- 120.00	100.00
6.444	6.444 (0.968)	43	17276			226.53- 286.53	296.53
6.444	6.444 (0.968)	57	8717			100.85- 160.85	149.62
* 108 1,4-Difluorobenzene					CAS #: 540-36-3		
6.659	6.659 (1.000)	114	606184	25.0000		80.00- 120.00	100.00
6.659	6.659 (1.000)	88	94479			0.00- 45.71	15.59
111 Trichloroethene					CAS #: 79-01-6		
6.867	6.867 (1.031)	95	7500	0.80000	0.7727	80.00- 120.00	100.00
6.867	6.867 (1.031)	130	8249			76.29- 136.29	109.99
6.867	6.867 (1.031)	97	5319			33.63- 93.63	70.92
114 1,2-Dichloropropane					CAS #: 78-87-5		
7.089	7.089 (1.065)	63	8531	0.80000	0.8318	80.00- 120.00	100.00
7.089	7.089 (1.065)	62	5060			41.07- 101.07	59.31

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
114 1,2-Dichloropropane (continued)							
7.089	7.089 (1.065)	41	4367			22.53- 82.53	51.19
116 Methyl Methacrylate					CAS #: 80-62-6		
7.132	7.132 (0.754)	69	6670	0.80000	0.8231	80.00- 120.00	100.00
7.132	7.132 (0.754)	41	13396			179.84- 239.84	200.84
7.139	7.139 (0.755)	100	2488			9.59- 69.59	37.30
117 1,4-Dioxane					CAS #: 123-91-1		
7.182	7.175 (1.079)	88	4383	0.80000	0.8042	80.00- 120.00	100.00
7.175	7.175 (1.077)	58	4085			68.28- 128.28	93.20
7.182	7.175 (1.079)	57	1304			2.68- 62.68	29.75
118 Dibromomethane					CAS #: 74-95-3		
7.204	7.204 (0.761)	174	6512	0.80000	0.7441	80.00- 120.00	100.00
7.204	7.204 (0.761)	93	7271			60.09- 120.09	111.66
7.204	7.204 (0.761)	95	5822			48.38- 108.38	89.40
122 Bromodichloromethane					CAS #: 75-27-4		
7.318	7.318 (1.099)	83	11296	0.80000	0.7506	80.00- 120.00	100.00
7.318	7.318 (1.099)	85	7568			35.24- 95.24	67.00
126 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.691	7.691 (1.155)	75	9799	0.80000	0.7707	80.00- 120.00	100.00
7.691	7.691 (1.155)	77	3081			2.42- 62.42	31.44
7.691	7.691 (1.155)	39	6857			37.16- 97.16	69.98
127 Methylcyclohexane					CAS #: 108-87-2		
6.974	6.974 (1.047)	83	11923	0.80000	0.8488	80.00- 120.00	100.00(a)
6.974	6.974 (1.047)	98	4960			15.78- 75.78	41.60
6.974	6.974 (1.047)	55	14478			84.64- 144.64	121.43
131 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.798	7.791 (1.171)	58	8645	0.80000	0.8301	80.00- 120.00	100.00
7.791	7.791 (1.170)	43	23117			242.35- 302.35	267.40
7.798	7.791 (1.171)	85	3561			3.24- 63.24	41.19
$ 134 Toluene-d8					CAS #: 2037-26-5		
7.891	7.891 (1.185)	98	650730	25.0000	24.721	80.00- 120.00	100.00
7.891	7.891 (1.185)	70	72936			0.00- 40.44	11.21
7.891	7.891 (1.185)	100	428196			34.95- 94.95	65.80
137 Toluene					CAS #: 108-88-3		
7.949	7.949 (1.194)	91	22780	0.80000	0.8254	80.00- 120.00	100.00
7.949	7.949 (1.194)	92	12614			28.38- 88.38	55.37

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
136 Octane					CAS #: 111-65-9		
7.941	7.949 (1.193)	57	9685	0.80000	0.8230	80.00- 120.00	100.00
7.941	7.949 (1.193)	85	8103			56.00- 116.00	83.67
7.941	7.949 (1.193)	43	24475			228.66- 288.66	252.71
139 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
8.214	8.214 (0.868)	75	8944	0.80000	0.7706	80.00- 120.00	100.00
8.214	8.214 (0.868)	77	3413			1.24- 61.24	38.16
8.214	8.214 (0.868)	39	5828			34.11- 94.11	65.16
141 1,1,2-Trichloroethane					CAS #: 79-00-5		
8.400	8.400 (0.888)	97	7441	0.80000	0.7757	80.00- 120.00	100.00
8.400	8.400 (0.888)	99	4988			31.96- 91.96	67.03
8.400	8.400 (0.888)	83	6109			52.93- 112.93	82.10
142 Tetrachloroethene					CAS #: 127-18-4		
8.464	8.464 (0.895)	166	11474	0.80000	0.8537	80.00- 120.00	100.00
8.464	8.464 (0.895)	129	9050			47.84- 107.84	78.87
8.464	8.464 (0.895)	131	8617			45.29- 105.29	75.10
144 1,3-Dichloropropane					CAS #: 142-28-9		
8.579	8.579 (1.288)	76	9705	0.80000	0.7405	80.00- 120.00	100.00(a)
8.579	8.579 (1.288)	41	15102			94.99- 154.99	155.61
8.579	8.579 (1.288)	78	4420			2.05- 62.05	45.54
146 Dibromochloromethane					CAS #: 124-48-1		
8.801	8.801 (0.930)	129	14778	0.80000	0.8245	80.00- 120.00	100.00
8.794	8.801 (0.930)	127	11344			47.45- 107.45	76.76
148 1,2-Dibromoethane (EDB)					CAS #: 106-93-4		
8.951	8.951 (0.946)	107	12593	0.80000	0.8185	80.00- 120.00	100.00
8.951	8.951 (0.946)	109	11731			64.21- 124.21	93.15
* 153 Chlorobenzene-d5					CAS #: 3114-55-4		
9.460	9.460 (1.000)	117	589752	25.0000		80.00- 120.00	100.00
9.460	9.460 (1.000)	82	320479			23.78- 83.78	54.34
154 Chlorobenzene					CAS #: 108-90-7		
9.496	9.496 (1.004)	112	18502	0.80000	0.7901	80.00- 120.00	100.00
9.496	9.496 (1.004)	114	5822			1.74- 61.74	31.47
9.496	9.496 (1.004)	77	16247			25.04- 85.04	87.81
155 Ethyl Benzene					CAS #: 100-41-4		
9.567	9.567 (1.011)	106	10293	0.80000	0.8406	80.00- 120.00	100.00
9.567	9.567 (1.011)	91	30246			273.74- 333.74	293.85

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
156 Nonane					CAS #: 111-84-2		
9.596	9.596 (1.014)	43	26221	0.80000	0.8322	80.00- 120.00	100.00
9.596	9.603 (1.014)	57	21624			54.16- 114.16	82.47
9.603	9.603 (1.015)	85	6333			0.00- 53.90	24.15
158 m,p-Xylene					CAS #: 108-38-3		
9.718	9.718 (1.027)	106	12735	0.80000	0.8304	80.00- 120.00	100.00
9.718	9.718 (1.027)	91	24959			163.73- 223.73	195.99
164 o-Xylene					CAS #: 95-47-6		
10.226	10.226 (1.081)	106	11761	0.80000	0.8004	80.00- 120.00	100.00
10.226	10.226 (1.081)	91	25094			177.45- 237.45	213.37
165 Styrene					CAS #: 100-42-5		
10.255	10.255 (1.084)	104	21047	0.80000	0.8375	80.00- 120.00	100.00
10.255	10.255 (1.084)	78	10991			17.88- 77.88	52.22
167 Bromoform					CAS #: 75-25-2		
10.542	10.542 (1.114)	173	13923	0.80000	0.7881	80.00- 120.00	100.00
10.542	10.542 (1.114)	171	7225			21.25- 81.25	51.89
168 Cumene					CAS #: 98-82-8		
10.649	10.649 (1.126)	105	37874	0.80000	0.8205	80.00- 120.00	100.00
10.649	10.649 (1.126)	120	10437			0.00- 58.52	27.56
10.649	10.649 (1.126)	51	4962			0.00- 43.00	13.10
169 Cyclohexanone					CAS #: 108-94-1		
10.871	10.871 (1.149)	55	14385	0.80000	0.8714	80.00- 120.00	100.00(a)
10.878	10.871 (1.150)	98	5447			1.94- 61.94	37.87
10.871	10.871 (1.149)	42	10807			37.89- 97.89	75.13
$ 170 4-Bromofluorobenzene					CAS #: 460-00-4		
10.921	10.921 (1.154)	174	378732	25.0000	25.008	80.00- 120.00	100.00
10.914	10.921 (1.154)	95	481990			95.92- 155.92	127.26
10.921	10.921 (1.154)	176	365332			66.89- 126.89	96.46
175 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
11.107	11.100 (1.174)	83	18561	0.80000	0.8238	80.00- 120.00	100.00
11.100	11.100 (1.173)	85	11307			35.20- 95.20	60.92
177 Bromobenzene					CAS #: 108-86-1		
11.107	11.107 (1.174)	156	10853	0.80000	0.7731	80.00- 120.00	100.00(a)
11.107	11.107 (1.174)	158	10789			67.21- 127.21	99.41
11.179	11.179 (1.182)	77	6933			29.02- 89.02	63.88
178 Propylbenzene					CAS #: 103-65-1		
11.150	11.150 (1.179)	120	11475	0.80000	0.8384	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
178 Propylbenzene (continued)							
11.150	11.150 (1.179)	91	43112			366.49- 426.49	375.70
11.143	11.150 (1.178)	105	2100			0.00- 44.85	18.30
179 1,2,3-Trichloropropane					CAS #: 96-18-4		
11.179	11.179 (1.182)	110	5951	0.80000	0.8287	80.00- 120.00	100.00
11.179	11.179 (1.182)	75	18371			280.55- 340.55	308.70
11.100	11.100 (1.173)	61	3117			15.49- 75.49	52.38
181 trans-1,4-Dichloro-2-butene					CAS #: 110-57-6		
11.179	11.179 (1.182)	53	3638	0.80000	0.7728	80.00- 120.00	100.00(a)
11.179	11.179 (1.182)	89	2918			49.11- 109.11	80.21
11.179	11.179 (1.182)	75	18371			426.44- 486.44	504.98
182 Decane					CAS #: 124-18-5		
11.251	11.251 (1.189)	57	33896	0.80000	0.9440	80.00- 120.00	100.00
11.258	11.251 (1.190)	71	9535			0.00- 57.66	28.13
11.258	11.258 (1.190)	142	1347			0.00- 34.09	3.97
183 4-Ethyltoluene					CAS #: 622-96-8		
11.286	11.287 (1.193)	120	12273	0.80000	0.8246	80.00- 120.00	100.00
11.286	11.287 (1.193)	105	37727			284.55- 344.55	307.40
184 2-Chlorotoluene					CAS #: 95-49-8		
11.308	11.308 (1.195)	126	9433	0.80000	0.8094	80.00- 120.00	100.00
11.308	11.308 (1.195)	91	32992			315.17- 375.17	349.75
11.308	11.301 (1.195)	65	4962			21.55- 81.55	52.60
185 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
11.365	11.365 (1.201)	120	16766	0.80000	0.8181	80.00- 120.00	100.00
11.365	11.365 (1.201)	105	32345			164.93- 224.93	192.92
188 alpha Methyl Styrene					CAS #: 98-83-9		
11.645	11.645 (1.231)	118	16331	0.80000	0.8022	80.00- 120.00	100.00
11.645	11.645 (1.231)	103	9432			25.30- 85.30	57.76
189 tert-Butylbenzene					CAS #: 98-06-6		
11.738	11.738 (1.241)	119	30711	0.80000	0.8012	80.00- 120.00	100.00
11.738	11.738 (1.241)	134	7000			0.00- 54.25	22.79
11.738	11.738 (1.241)	91	18642			31.27- 91.27	60.70
190 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
11.817	11.817 (1.249)	105	32248	0.80000	0.8337	80.00- 120.00	100.00
11.817	11.817 (1.249)	120	16498			19.05- 79.05	51.16
192 sec-Butylbenzene					CAS #: 135-98-8		
11.996	11.996 (1.268)	134	9353	0.80000	0.7851	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
192 sec-Butylbenzene (continued)							
11.996	11.996 (1.268)	105	44701			437.55- 497.55	477.93
11.996	11.996 (1.268)	91	7110			40.76- 100.76	76.02
194 p-Cymene					CAS #: 99-87-6		
12.160	12.160 (1.285)	119	43493	0.80000	0.8260	80.00- 120.00	100.00
12.160	12.160 (1.285)	134	10779			0.00- 55.54	24.78
12.153	12.153 (1.285)	91	9590			0.00- 51.48	22.05
195 1,3-Dichlorobenzene					CAS #: 541-73-1		
12.196	12.196 (1.289)	146	21827	0.80000	0.8244	80.00- 120.00	100.00
12.203	12.196 (1.290)	148	13524			33.21- 93.21	61.96
12.196	12.196 (1.289)	111	9335			11.31- 71.31	42.77
196 1,4-Dichlorobenzene					CAS #: 106-46-7		
12.311	12.311 (1.301)	146	22077	0.80000	0.8252	80.00- 120.00	100.00
12.311	12.311 (1.301)	148	13735			33.90- 93.90	62.21
12.311	12.311 (1.301)	111	9361			9.45- 69.45	42.40
199 alpha-Chlorotoluene					CAS #: 100-44-7		
12.461	12.461 (1.317)	91	28531	0.80000	0.7766	80.00- 120.00	100.00
12.461	12.461 (1.317)	126	7255			0.00- 53.26	25.43
201 Undecane					CAS #: 1120-21-4		
12.640	12.640 (1.336)	57	35643	0.80000	0.8594	80.00- 120.00	100.00
12.640	12.640 (1.336)	43	32820			58.12- 118.12	92.08
202 Butylbenzene					CAS #: 104-51-8		
12.626	12.626 (1.335)	134	11054	0.80000	0.8266	80.00- 120.00	100.00
12.626	12.626 (1.335)	91	36768			314.79- 374.79	332.62
12.626	12.626 (1.335)	92	18539			154.29- 214.29	167.71
204 1,2-Dichlorobenzene					CAS #: 95-50-1		
12.733	12.741 (1.346)	146	20836	0.80000	0.8026	80.00- 120.00	100.00
12.733	12.741 (1.346)	148	14179			33.84- 93.84	68.05
12.733	12.741 (1.346)	111	9568			12.73- 72.73	45.92
207 Dodecane					CAS #: 112-40-3		
13.801	13.801 (1.459)	57	25429	0.99000	0.7736	80.00- 120.00	100.00
13.801	13.801 (1.459)	43	20311			52.87- 112.87	79.87
213 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
14.467	14.467 (1.529)	180	17480	1.01000	0.9113	80.00- 120.00	100.00
14.467	14.467 (1.529)	182	17289			65.33- 125.33	98.91
215 Hexachlorobutadiene					CAS #: 87-68-3		
14.581	14.582 (1.541)	225	11980	1.03000	0.8875	80.00- 120.00	100.00

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
215 Hexachlorobutadiene (continued)							
14.581	14.582 (1.541)	223	7605			33.17- 93.17	63.48
216 Naphthalene					CAS #: 91-20-3		
14.761	14.768 (1.560)	128	5130	0.10000	0.1046	80.00- 120.00	100.00(a)
14.761	14.768 (1.560)	127	1046			0.00- 42.88	20.39
222 1,2,3-Trichlorobenzene					CAS #: 87-61-6		
15.069	15.069 (1.593)	180	15919	1.06000	0.9388	80.00- 120.00	100.00
15.069	15.069 (1.593)	182	15376			65.75- 125.75	96.59
15.069	15.069 (1.593)	145	5239			5.23- 65.23	32.91

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p051904.d
Lab Smp Id: ICAL Level 3
Analysis Type: VOA
Quant Type: ISTD
Operator: LD
Method File: /chem/msdp.i/19MAY21.b/p21q0519a.m
Misc Info: 0.8ppbv (5.0ppbv)

Calibration Date: 19-MAY-2021
Calibration Time: 15:55
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	158810	95286	222334	165114	3.97
108 1,4-Difluorobenze	597103	358262	835944	606184	1.52
153 Chlorobenzene-d5	587747	352648	822846	589752	0.34

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.78	5.45	6.11	5.78	-0.00
108 1,4-Difluorobenze	6.66	6.33	6.99	6.66	-0.00
153 Chlorobenzene-d5	9.46	9.13	9.79	9.46	-0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msdp.i/19MAY21.b/p051904.d

Date : 19-MAY-2021 14:02

Client ID:

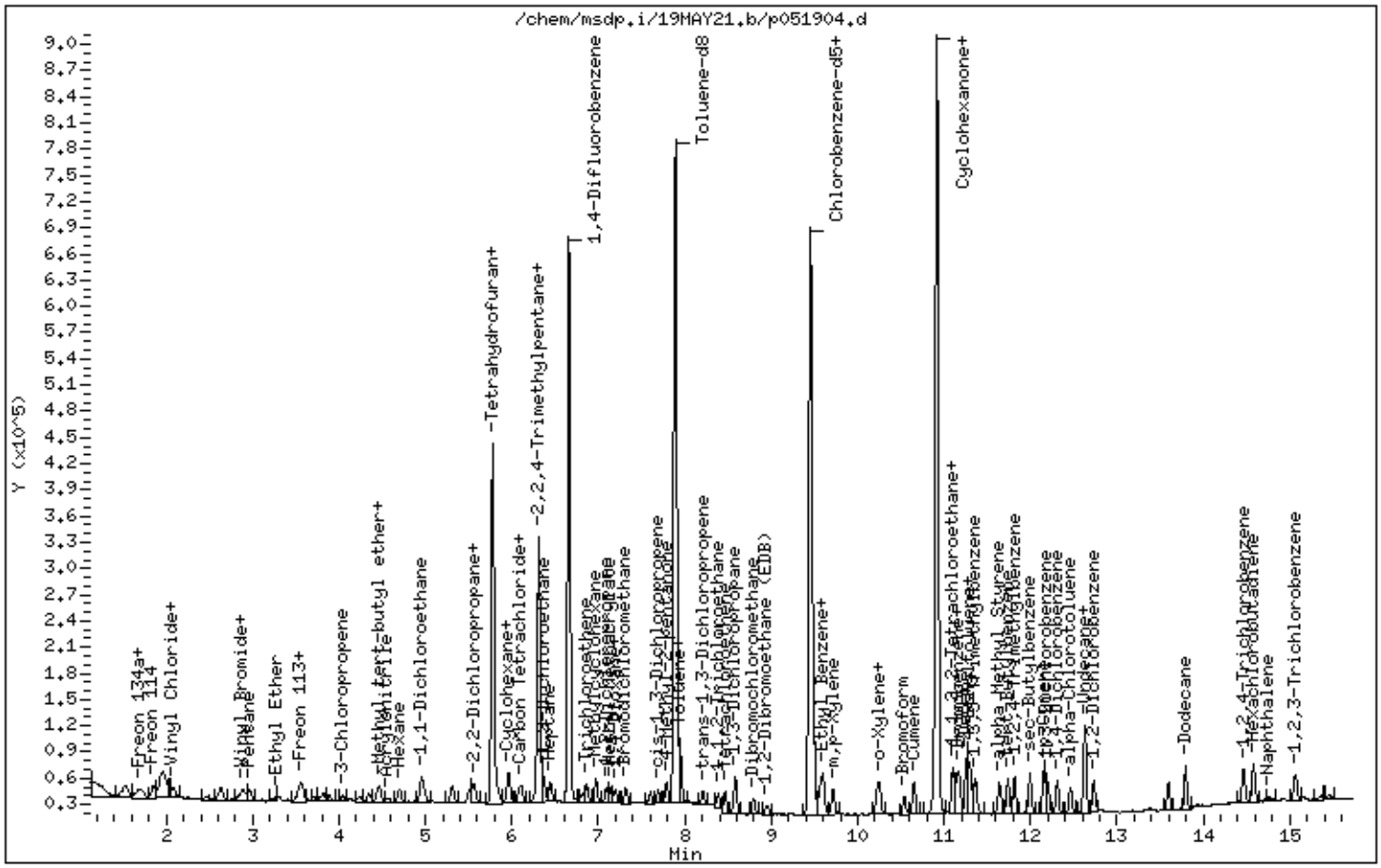
Instrument: msdp.i

Sample Info: 32mL 3018-2045

Operator: LD

Column phase: RTX-624

Column diameter: 0.25



US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/19MAY21.b/p051915.d
Lab Smp Id: ICAL Level 3
Inj Date : 19-MAY-2021 19:45
Operator : gh Inst ID: msdp.i
Smp Info : 32mL 3018-1928
Misc Info : 0.8ppbv (5.0ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/19MAY21.b/p21q0519a.m
Meth Date : 20-May-2021 09:50 lk8g Quant Type: ISTD
Cal Date : 19-MAY-2021 19:45 Cal File: p051915.d
Als bottle: 2 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT20spICAL.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 90 Bromochloromethane					CAS #: 74-97-5		
5.778	5.778 (1.000)	130	164344	25.0000		80.00- 120.00	100.00
5.778	5.778 (1.000)	128	125886			48.23- 108.23	76.60
5.778	5.778 (1.000)	49	290825			150.57- 210.57	176.96
* 108 1,4-Difluorobenzene					CAS #: 540-36-3		
6.659	6.659 (1.000)	114	606504	25.0000		80.00- 120.00	100.00
6.659	6.659 (1.000)	88	95686			0.00- 45.71	15.78
* 153 Chlorobenzene-d5					CAS #: 3114-55-4		
9.460	9.460 (1.000)	117	593084	25.0000		80.00- 120.00	100.00
9.453	9.460 (1.000)	82	324813			23.78- 83.78	54.77
3 Freon 143a					CAS #: 420-46-2		
1.591	1.590 (0.275)	65	3384	0.80000	1.014	80.00- 120.00	100.00(a)
1.591	1.590 (0.275)	69	8253			243.50- 303.50	243.88
1.591	1.590 (0.275)	64	1419			0.00- 54.06	41.93
6 Propane					CAS #: 74-98-6		
1.674	1.674 (0.290)	43	3721	0.80000	1.216	80.00- 120.00	100.00(a)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
6 Propane (continued)							
1.674	1.674 (0.290)	39	2558			34.98- 94.98	68.74
1.688	1.674 (0.292)	41	1187			25.22- 85.22	31.90
13 Freon 142b					CAS #: 75-68-3		
1.884	1.884 (0.326)	65	14331	0.80000	0.8483	80.00- 120.00	100.00(a)
1.884	1.884 (0.326)	45	4817			0.00- 59.77	33.61
36 1-Pentene					CAS #: 109-67-1		
2.898	2.906 (0.502)	55	8373	0.80000	0.7641	80.00- 120.00	100.00(a)
2.898	2.906 (0.502)	42	10665			105.17- 165.17	127.37
40 Freon 123a					CAS #: 354-23-4		
3.378	3.385 (0.585)	117	8954	0.80000	0.8423	80.00- 120.00	100.00(a)
3.378	3.378 (0.585)	67	10000			104.69- 164.69	111.68
41 Freon 123					CAS #: 306-83-2		
3.479	3.479 (0.602)	83	12043	0.80000	0.8181	80.00- 120.00	100.00(a)
3.486	3.479 (0.603)	133	2878			0.00- 50.87	23.90
3.472	3.479 (0.601)	85	7657			36.08- 96.08	63.58
55 Cyclopentene					CAS #: 142-29-0		
4.066	4.073 (0.704)	67	13033	0.80000	0.8236	80.00- 120.00	100.00(a)
4.073	4.073 (0.705)	68	5570			6.76- 66.76	42.74
4.073	4.073 (0.705)	53	4098			0.00- 57.54	31.44
56 Methyl Acetate					CAS #: 79-20-9		
4.080	4.073 (0.706)	43	13892	0.80000	0.7505	80.00- 120.00	100.00(a)
4.073	4.073 (0.705)	74	2356			0.00- 44.13	16.96
74 Chloroprene					CAS #: 126-99-8		
5.019	5.019 (0.869)	53	10679	0.80000	0.7298	80.00- 120.00	100.00(a)
5.019	5.019 (0.869)	88	4129			9.21- 69.21	38.66
5.019	5.019 (0.869)	50	3511			0.00- 54.25	32.88
75 1-Propanol					CAS #: 71-23-8		
5.090	5.083 (0.881)	59	1961	0.80000	0.8598	80.00- 120.00	100.00(a)
5.090	5.083 (0.881)	42	1356			63.23- 123.23	69.15
5.090	5.083 (0.881)	41	964			24.74- 84.74	49.16
88 Methyl Acrylate					CAS #: 96-33-3		
5.628	5.620 (0.974)	55	14529	0.80000	0.7451	80.00- 120.00	100.00(a)
5.620	5.620 (0.973)	85	2658			0.00- 41.28	18.29
5.620	5.620 (0.973)	58	1084			0.00- 38.22	7.46
103 Isobutanol					CAS #: 78-83-1		
6.244	6.244 (1.081)	39	1516	0.80000	0.6268	80.00- 120.00	100.00(a)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
103 Isobutanol (continued)							
6.244	6.244 (1.081)	43	6586			448.18- 508.18	434.43
6.244	6.244 (1.081)	41	6296			299.99- 359.99	415.30
113 Ethyl acrylate					CAS #: 140-88-5		
6.938	6.938 (0.733)	99	1140	0.80000	0.8059	80.00- 120.00	100.00(a)
6.938	6.938 (0.733)	45	2310			149.95- 209.95	202.63
6.938	6.938 (0.733)	55	19701			1849.07-1909.07	1728.16
115 2-Pentanone					CAS #: 107-87-9		
7.032	7.031 (0.743)	43	24123	0.80000	0.7933	80.00- 120.00	100.00(a)
7.032	7.031 (0.743)	58	1837			0.00- 37.44	7.62
7.032	7.031 (0.743)	86	3321			0.00- 42.78	13.77
145 Butyl Acetate					CAS #: 123-86-4		
8.665	8.665 (1.301)	56	12701	0.80000	0.8216	80.00- 120.00	100.00(a)
8.665	8.665 (1.301)	73	3929			0.00- 59.10	30.93
8.665	8.657 (1.301)	43	29172			215.30- 275.30	229.68
157 1,1,1,2-Tetrachloroethane					CAS #: 630-20-6		
9.596	9.596 (1.014)	131	10131	0.80000	0.7736	80.00- 120.00	100.00(a)
9.460	9.460 (1.000)	117	593084			57.42- 117.42	5854.15
9.596	9.596 (1.014)	95	4021			5.70- 65.70	39.69
166 2-Heptanone					CAS #: 110-43-0		
10.362	10.362 (1.793)	58	19243	0.80000	0.7954	80.00- 120.00	100.00(a)
10.362	10.362 (1.793)	43	30387			136.03- 196.03	157.91
172 D-Limonene					CAS #: 5989-27-5		
12.089	12.089 (1.278)	68	6734	0.80000	0.6275	80.00- 120.00	100.00(a)
12.089	12.089 (1.278)	93	4720			39.41- 99.41	70.09
186 4-Chlorotoluene					CAS #: 106-43-4		
11.444	11.444 (1.210)	126	9434	0.80000	0.7705	80.00- 120.00	100.00(a)
11.444	11.444 (1.210)	91	29750			295.02- 355.02	315.35
11.437	11.444 (1.209)	63	4126			11.82- 71.82	43.74
197 1,2,3-Trimethylbenzene					CAS #: 526-73-8		
12.318	12.318 (1.302)	120	14202	0.80000	0.8022	80.00- 120.00	100.00(a)
12.318	12.318 (1.302)	105	30046			192.40- 252.40	211.56
12.318	12.318 (1.302)	77	4952			0.00- 54.69	34.87
205 Hexachloroethane					CAS #: 67-72-1		
12.970	12.970 (1.371)	201	4732	0.80000	0.7912	80.00- 120.00	100.00(a)
12.963	12.970 (1.370)	117	7064			102.99- 162.99	149.28

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
208 1,3,5-Trichlorobenzene					CAS #: 108-70-3		
13.758	13.758 (1.454)	180	19960	0.80000	0.7958	80.00- 120.00	100.00(a)
13.758	13.758 (1.454)	182	18425			65.24- 125.24	92.31
210 alpha-Pinene					CAS #: 80-56-8		
10.599	10.599 (1.120)	93	17650	0.80000	0.7612	80.00- 120.00	100.00(a)
10.599	10.599 (1.120)	77	6081			0.00- 58.21	34.45
214 beta-Pinene					CAS #: 127-91-3		
11.423	11.422 (1.207)	93	9306	0.80000	0.6884	80.00- 120.00	100.00(a)
11.444	11.444 (1.210)	91	29750			153.57- 213.57	319.69

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p051915.d
Lab Smp Id: ICAL Level 3
Analysis Type: VOA
Quant Type: ISTD
Operator: gh
Method File: /chem/msdp.i/19MAY21.b/p21q0519a.m
Misc Info: 0.8ppbv (5.0ppbv)

Calibration Date: 19-MAY-2021
Calibration Time: 15:55
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	158810	95286	222334	164344	3.48
108 1,4-Difluorobenze	597103	358262	835944	606504	1.57
153 Chlorobenzene-d5	587747	352648	822846	593084	0.91

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.78	5.45	6.11	5.78	-0.00
108 1,4-Difluorobenze	6.66	6.33	6.99	6.66	-0.00
153 Chlorobenzene-d5	9.46	9.13	9.79	9.46	-0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msdp.i/19MAY21.b/p051915.d

Date : 19-MAY-2021 19:45

Client ID:

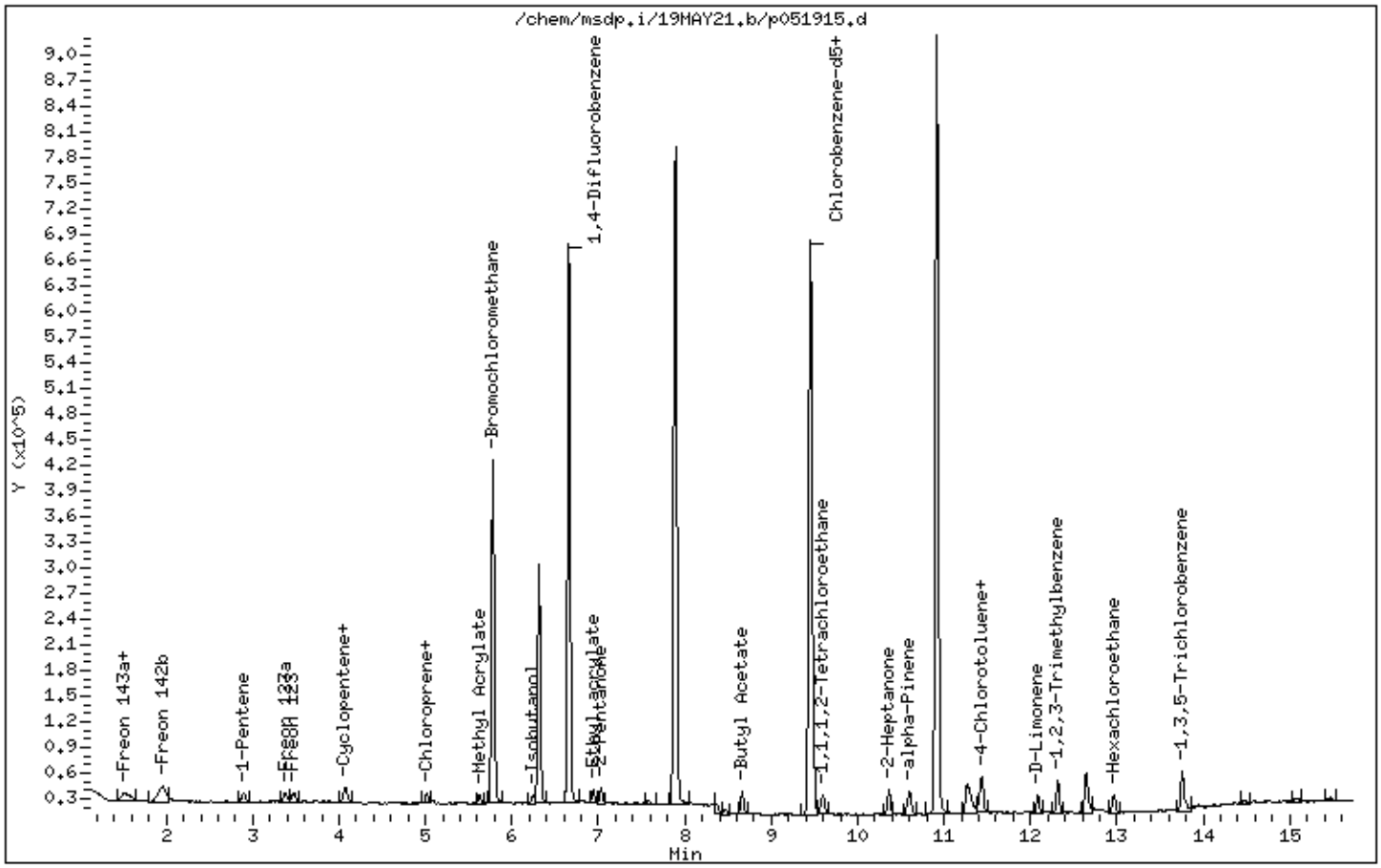
Instrument: msdp.i

Sample Info: 32mL 3018-1928

Operator: gh

Column phase: RTX-624

Column diameter: 0.25



US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/19MAY21.b/p051905.d
Lab Smp Id: ICAL Level 4
Inj Date : 19-MAY-2021 14:30
Operator : LD Inst ID: msdp.i
Smp Info : 80mL 3018-2045
Misc Info : 2.0ppbv (5.0ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/19MAY21.b/p21q0519a.m
Meth Date : 20-May-2021 09:50 lk8g Quant Type: ISTD
Cal Date : 19-MAY-2021 20:13 Cal File: p051916.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT20ICAL.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
4 Freon 134a					CAS #: 811-97-2		
1.646	1.633 (0.285)	83	10752	2.00000	2.113	80.00- 120.00	100.00
1.646	1.633 (0.285)	69	9430			59.44- 119.44	87.70
1.744	1.745 (0.302)	51	44872			419.06- 479.06	417.34
5 Propylene					CAS #: 115-07-1		
1.674	1.675 (0.290)	41	16628	2.00000	2.178	80.00- 120.00	100.00
1.674	1.675 (0.290)	42	9737			35.28- 95.28	58.56
1.674	1.675 (0.290)	39	9475			38.35- 98.35	56.98
7 1,1-Difluoroethane					CAS #: 75-37-6		
1.702	1.703 (0.295)	65	9119	2.00000	2.248	80.00- 120.00	100.00
1.744	1.745 (0.302)	51	44872			597.63- 657.63	492.07
1.702	1.703 (0.295)	47	4376			33.72- 93.72	47.99
8 Freon 12					CAS #: 75-71-8		
1.716	1.717 (0.297)	85	28857	2.00000	2.119	80.00- 120.00	100.00
1.716	1.717 (0.297)	87	9809			2.37- 62.37	33.99
9 Chlorodifluoromethane					CAS #: 75-45-6		
1.744	1.745 (0.302)	67	2775	2.00000	2.050	80.00- 120.00	100.00

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
9 Chlorodifluoromethane (continued)							
1.744	1.745 (0.302)	51	44872			1501.01-1561.01	1617.01
10 Freon 114					CAS #: 76-14-2		
1.856	1.856 (0.321)	135	30051	2.00000	2.103	80.00- 120.00	100.00
1.856	1.856 (0.321)	137	10561			2.30- 62.30	35.14
12 Isobutane					CAS #: 75-28-5		
1.870	1.870 (0.324)	43	37601	2.00000	2.238	80.00- 120.00	100.00
1.870	1.870 (0.324)	42	10224			2.44- 62.44	27.19
1.870	1.856 (0.324)	58	1126			0.00- 33.36	2.99
15 Chloromethane					CAS #: 74-87-3		
1.940	1.940 (0.336)	50	20795	2.00000	2.143	80.00- 120.00	100.00
1.940	1.940 (0.336)	52	6777			0.00- 56.26	32.59
18 Butane					CAS #: 106-97-8		
2.025	2.025 (0.350)	58	4684	2.00000	2.428	80.00- 120.00	100.00
2.025	2.025 (0.350)	43	30160			823.29- 883.29	643.89
19 Vinyl Chloride					CAS #: 75-01-4		
2.068	2.068 (0.358)	62	22935	2.00000	2.214	80.00- 120.00	100.00
2.075	2.068 (0.359)	64	4016			0.00- 59.69	17.51
20 1,3-Butadiene					CAS #: 106-99-0		
2.089	2.089 (0.362)	54	14209	2.00000	1.851	80.00- 120.00	100.00
2.089	2.089 (0.362)	39	14860			52.37- 112.37	104.58
24 Bromomethane					CAS #: 74-83-9		
2.483	2.483 (0.430)	94	15345	2.00000	2.288	80.00- 120.00	100.00
2.476	2.483 (0.428)	96	14452			64.07- 124.07	94.18
30 Chloroethane					CAS #: 75-00-3		
2.612	2.612 (0.452)	64	7064	2.00000	2.048	80.00- 120.00	100.00
2.619	2.612 (0.453)	66	2424			0.04- 60.04	34.31
2.619	2.612 (0.453)	49	2630			4.54- 64.54	37.23
31 Isopentane					CAS #: 78-78-4		
2.633	2.634 (0.456)	43	21473	2.00000	2.019	80.00- 120.00	100.00
2.633	2.634 (0.456)	57	14410			34.12- 94.12	67.11
32 Vinyl Bromide					CAS #: 593-60-2		
2.848	2.841 (0.493)	106	12788	2.00000	2.173	80.00- 120.00	100.00
2.841	2.841 (0.492)	108	11825			69.27- 129.27	92.47
33 Freon 11					CAS #: 75-69-4		
2.884	2.884 (0.499)	101	29478	2.00000	1.982	80.00- 120.00	100.00

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
33 Freon 11 (continued)							
2.884	2.884 (0.499)	103	21023			34.72- 94.72	71.32
34 Dichlorofluoromethane					CAS #: 75-43-4		
2.898	2.899 (0.502)	67	26413	2.00000	2.016	80.00- 120.00	100.00
2.891	2.899 (0.500)	69	8532			0.84- 60.84	32.30
35 Pentane					CAS #: 109-66-0		
2.970	2.970 (0.514)	43	36199	2.00000	2.019	80.00- 120.00	100.00
2.970	2.970 (0.514)	57	5481			0.00- 44.98	15.14
2.970	2.970 (0.514)	72	2569			0.00- 37.39	7.10
38 Ethyl Ether					CAS #: 60-29-7		
3.292	3.285 (0.570)	74	6103	2.00000	2.113	80.00- 120.00	100.00
3.285	3.285 (0.569)	59	11984			163.46- 223.46	196.36
3.285	3.285 (0.569)	45	17007			250.40- 310.40	278.67
39 Ethanol					CAS #: 64-17-5		
3.249	3.242 (0.562)	46	3513	2.00000	2.141	80.00- 120.00	100.00
3.285	3.242 (0.569)	45	17032			511.19- 571.19	484.83
42 Acrolein					CAS #: 107-02-8		
3.536	3.529 (0.612)	55	5593	2.00000	2.070	80.00- 120.00	100.00
3.529	3.529 (0.611)	56	9027			111.10- 171.10	161.40
43 Freon 113					CAS #: 76-13-1		
3.550	3.550 (0.614)	151	22474	2.00000	2.051	80.00- 120.00	100.00
3.550	3.550 (0.614)	153	14485			33.56- 93.56	64.45
3.550	3.550 (0.614)	101	27010			89.21- 149.21	120.18
44 1,1-Dichloroethene					CAS #: 75-35-4		
3.579	3.579 (0.619)	96	12551	2.00000	1.903	80.00- 120.00	100.00
3.579	3.579 (0.619)	98	8404			34.02- 94.02	66.96
3.579	3.579 (0.619)	61	26438			168.77- 228.77	210.64
47 Acetone					CAS #: 67-64-1		
3.715	3.708 (0.643)	58	9195	2.00000	2.141	80.00- 120.00	100.00
3.715	3.708 (0.643)	43	30176			302.95- 362.95	328.18
48 Carbon Disulfide					CAS #: 75-15-0		
3.822	3.823 (0.662)	76	36134	2.00000	2.058	80.00- 120.00	100.00
49 Iodomethane					CAS #: 74-88-4		
3.794	3.794 (0.657)	142	14456	2.00000	1.356	80.00- 120.00	100.00(a)
3.794	3.794 (0.657)	127	6010			12.22- 72.22	41.57

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
52 2-Propanol					CAS #: 67-63-0		
3.894	3.887 (0.674)	45	34496	2.00000	2.040	80.00- 120.00	100.00
3.894	3.887 (0.674)	43	6922			0.00- 47.19	20.07
54 3-Chloropropene					CAS #: 107-05-1		
4.045	4.052 (0.700)	76	6575	2.00000	2.162	80.00- 120.00	100.00
4.045	4.052 (0.700)	41	25612			396.19- 456.19	389.54
57 Acetonitrile					CAS #: 75-05-8		
4.131	4.123 (0.715)	41	15059	2.00000	1.986	80.00- 120.00	100.00
4.131	4.123 (0.715)	40	9224			20.95- 80.95	61.25
4.131	4.123 (0.715)	38	2726			0.00- 41.17	18.10
59 Methylene Chloride					CAS #: 75-09-2		
4.231	4.238 (0.732)	49	21233	2.00000	2.009	80.00- 120.00	100.00
4.238	4.238 (0.733)	84	11130			22.03- 82.03	52.42
4.238	4.238 (0.733)	51	6579			0.18- 60.18	30.98
62 tert-Butyl alcohol					CAS #: 75-65-0		
4.345	4.338 (0.752)	59	40925	2.00000	2.099	80.00- 120.00	100.00
4.345	4.338 (0.752)	41	8206			0.00- 51.11	20.05
4.338	4.338 (0.751)	57	4155			0.00- 40.49	10.15
63 Methyl tert-butyl ether					CAS #: 1634-04-4		
4.453	4.446 (0.771)	73	38812	2.00000	1.981	80.00- 120.00	100.00
4.453	4.446 (0.771)	57	12311			3.10- 63.10	31.72
4.453	4.446 (0.771)	41	12889			1.28- 61.28	33.21
64 trans-1,2-Dichloroethene					CAS #: 156-60-5		
4.474	4.482 (0.774)	98	9180	2.00000	2.060	80.00- 120.00	100.00
4.474	4.482 (0.774)	61	24720			255.84- 315.84	269.28
4.474	4.482 (0.774)	96	14713			127.59- 187.59	160.27
66 Acrylonitrile					CAS #: 107-13-1		
4.560	4.560 (0.789)	52	13138	2.00000	2.031	80.00- 120.00	100.00
4.560	4.560 (0.789)	53	14824			88.05- 148.05	112.83
67 Hexane					CAS #: 110-54-3		
4.696	4.697 (0.813)	57	31248	2.00000	2.036	80.00- 120.00	100.00
4.696	4.697 (0.813)	43	21924			37.52- 97.52	70.16
4.696	4.697 (0.813)	86	3562			0.00- 41.48	11.40
71 1,1-Dichloroethane					CAS #: 75-34-3		
4.961	4.962 (0.859)	63	27529	2.00000	2.029	80.00- 120.00	100.00
4.961	4.962 (0.859)	65	8205			0.00- 59.70	29.80

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
72 Isopropyl ether						CAS #: 108-20-3	
4.954	4.954 (0.857)	45	71591	2.00000	1.988	80.00- 120.00	100.00(a)
4.954	4.954 (0.857)	87	13182			0.00- 48.18	18.41
4.954	4.954 (0.857)	59	8012			0.00- 40.15	11.19
73 Vinyl Acetate						CAS #: 108-05-4	
4.997	4.997 (0.865)	86	3538	2.00000	2.042	80.00- 120.00	100.00
4.997	4.997 (0.865)	43	83098			2432.48-2492.48	2348.73
79 Ethyl-tert-butyl ether						CAS #: 637-92-3	
5.312	5.305 (0.919)	59	61838	2.00000	1.988	80.00- 120.00	100.00(a)
5.312	5.305 (0.919)	87	18730			1.00- 61.00	30.29
5.312	5.305 (0.919)	41	11608			0.00- 48.73	18.77
84 2,2-Dichloropropane						CAS #: 594-20-7	
5.506	5.506 (0.953)	77	23271	2.00000	2.002	80.00- 120.00	100.00
5.506	5.506 (0.953)	79	7682			2.28- 62.28	33.01
5.506	5.506 (0.953)	97	5978			0.00- 53.93	25.69
85 cis-1,2-Dichloroethene						CAS #: 156-59-2	
5.549	5.549 (0.960)	98	9213	2.00000	2.082	80.00- 120.00	100.00
5.542	5.549 (0.959)	96	15160			125.75- 185.75	164.55
5.542	5.549 (0.959)	61	33574			332.40- 392.40	364.42
86 2-Butanone						CAS #: 78-93-3	
5.556	5.556 (0.962)	72	7496	2.00000	2.089	80.00- 120.00	100.00
5.570	5.556 (0.964)	43	90870			1214.50-1274.50	1212.25
5.556	5.556 (0.962)	57	3054			14.68- 74.68	40.74
87 Ethyl Acetate						CAS #: 141-78-6	
5.577	5.570 (0.965)	45	7299	2.00000	2.045	80.00- 120.00	100.00
5.542	5.549 (0.959)	61	33574			452.04- 512.04	459.98
5.570	5.570 (0.964)	70	4007			22.77- 82.77	54.90
89 Tetrahydrofuran						CAS #: 109-99-9	
5.778	5.771 (1.000)	42	24973	2.00000	2.047	80.00- 120.00	100.00
5.778	5.771 (1.000)	71	6164			0.00- 55.82	24.68
5.778	5.771 (1.000)	72	6913			0.00- 57.59	27.68
* 90 Bromochloromethane						CAS #: 74-97-5	
5.778	5.778 (1.000)	130	159831	25.0000		80.00- 120.00	100.00
5.778	5.778 (1.000)	128	126227			48.23- 108.23	78.98
5.778	5.778 (1.000)	49	292527			150.57- 210.57	183.02
92 Chloroform						CAS #: 67-66-3	
5.835	5.835 (1.010)	83	27594	2.00000	2.032	80.00- 120.00	100.00

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
92 Chloroform (continued)							
5.835	5.835 (1.010)	85	18631			34.70- 94.70	67.52
94 Cyclohexane					CAS #: 110-82-7		
5.957	5.957 (1.031)	84	19272	2.00000	2.021	80.00- 120.00	100.00
5.957	5.957 (1.031)	56	34982			142.57- 202.57	181.52
5.957	5.957 (1.031)	41	20285			62.09- 122.09	105.26
96 1,1,1-Trichloroethane					CAS #: 71-55-6		
5.964	5.972 (1.032)	97	31014	2.00000	2.006	80.00- 120.00	100.00
5.971	5.972 (1.033)	99	19587			34.02- 94.02	63.16
97 Carbon Tetrachloride					CAS #: 56-23-5		
6.086	6.086 (1.053)	119	28698	2.00000	1.977	80.00- 120.00	100.00
6.086	6.086 (1.053)	117	27861			70.64- 130.64	97.08
99 1,1-Dichloropropene					CAS #: 563-58-6		
6.115	6.115 (0.918)	110	8669	2.00000	2.064	80.00- 120.00	100.00
6.115	6.115 (0.918)	75	21304			226.85- 286.85	245.75
101 2,2,4-Trimethylpentane					CAS #: 540-84-1		
6.287	6.280 (1.088)	57	105858	2.00000	1.977	80.00- 120.00	100.00
6.279	6.280 (1.087)	56	34121			2.24- 62.24	32.23
6.287	6.280 (1.088)	41	25646			0.00- 54.39	24.23
102 Benzene					CAS #: 71-43-2		
6.301	6.301 (0.946)	78	42719	2.00000	2.114	80.00- 120.00	100.00
6.301	6.301 (0.946)	77	9426			0.00- 52.90	22.07
$ 104 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
6.308	6.308 (1.092)	65	213845	25.0000	25.226	80.00- 120.00	100.00
6.308	6.308 (1.092)	67	109056			27.21- 87.21	51.00
105 tert-Amyl methyl ether					CAS #: 994-05-8		
6.358	6.358 (0.955)	87	12080	2.00000	2.059	80.00- 120.00	100.00
6.358	6.358 (0.955)	73	45185			372.79- 432.79	374.05
6.358	6.358 (0.955)	55	15451			112.09- 172.09	127.91
106 1,2-Dichloroethane					CAS #: 107-06-2		
6.380	6.380 (0.958)	62	21692	2.00000	2.056	80.00- 120.00	100.00
6.380	6.380 (0.958)	64	7191			0.79- 60.79	33.15
107 Heptane					CAS #: 142-82-5		
6.444	6.444 (0.968)	71	15826	2.00000	2.037	80.00- 120.00	100.00
6.444	6.444 (0.968)	43	42456			226.53- 286.53	268.27
6.444	6.444 (0.968)	57	22790			100.85- 160.85	144.00

				AMOUNTS		
				CAL-AMT	ON-COL	
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 108 1,4-Difluorobenzene					CAS #: 540-36-3		
6.659	6.659 (1.000)	114	608981	25.0000		80.00- 120.00	100.00
6.659	6.659 (1.000)	88	97098			0.00- 45.71	15.94
110 n-Butanol					CAS #: 71-36-3		
6.817	6.810 (1.024)	56	13920	2.00000	1.933	80.00- 120.00	100.00
6.817	6.810 (1.024)	41	11206			40.99- 100.99	80.50
6.817	6.810 (1.024)	43	8308			27.38- 87.38	59.68
111 Trichloroethene					CAS #: 79-01-6		
6.867	6.867 (1.031)	95	20090	2.00000	2.063	80.00- 120.00	100.00
6.867	6.867 (1.031)	130	21639			76.29- 136.29	107.71
6.867	6.867 (1.031)	97	12122			33.63- 93.63	60.34
114 1,2-Dichloropropane					CAS #: 78-87-5		
7.096	7.089 (1.066)	63	20821	2.00000	2.005	80.00- 120.00	100.00
7.089	7.089 (1.065)	62	14576			41.07- 101.07	70.01
7.096	7.089 (1.066)	41	10584			22.53- 82.53	50.83
116 Methyl Methacrylate					CAS #: 80-62-6		
7.139	7.132 (0.755)	69	16454	2.00000	1.977	80.00- 120.00	100.00
7.132	7.132 (0.754)	41	33345			179.84- 239.84	202.66
7.139	7.139 (0.755)	100	6482			9.59- 69.59	39.39
117 1,4-Dioxane					CAS #: 123-91-1		
7.182	7.175 (1.079)	88	11643	2.00000	2.092	80.00- 120.00	100.00
7.175	7.175 (1.077)	58	11397			68.28- 128.28	97.89
7.175	7.175 (1.077)	57	4191			2.68- 62.68	36.00
118 Dibromomethane					CAS #: 74-95-3		
7.203	7.204 (0.761)	174	19142	2.00000	2.126	80.00- 120.00	100.00
7.203	7.204 (0.761)	93	16978			60.09- 120.09	88.70
7.203	7.204 (0.761)	95	14808			48.38- 108.38	77.36
122 Bromodichloromethane					CAS #: 75-27-4		
7.318	7.318 (1.099)	83	31009	2.00000	2.066	80.00- 120.00	100.00
7.318	7.318 (1.099)	85	19794			35.24- 95.24	63.83
126 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.691	7.691 (1.155)	75	25607	2.00000	2.035	80.00- 120.00	100.00
7.691	7.691 (1.155)	77	8122			2.42- 62.42	31.72
7.691	7.691 (1.155)	39	17386			37.16- 97.16	67.90
127 Methylcyclohexane					CAS #: 108-87-2		
6.974	6.974 (1.047)	83	26965	2.00000	1.892	80.00- 120.00	100.00(a)
6.974	6.974 (1.047)	98	13600			15.78- 75.78	50.44

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
127 Methylcyclohexane (continued)							
6.974	6.974 (1.047)	55	34696			84.64- 144.64	128.67
131 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.798	7.791 (1.171)	58	20235	2.00000	1.954	80.00- 120.00	100.00
7.791	7.791 (1.170)	43	55273			242.35- 302.35	273.16
7.798	7.791 (1.171)	85	7479			3.24- 63.24	36.96
$ 134 Toluene-d8					CAS #: 2037-26-5		
7.891	7.891 (1.185)	98	665455	25.0000	25.210	80.00- 120.00	100.00
7.891	7.891 (1.185)	70	77094			0.00- 40.44	11.59
7.891	7.891 (1.185)	100	431576			34.95- 94.95	64.85
137 Toluene					CAS #: 108-88-3		
7.948	7.949 (1.194)	91	56064	2.00000	1.997	80.00- 120.00	100.00
7.948	7.949 (1.194)	92	34906			28.38- 88.38	62.26
136 Octane					CAS #: 111-65-9		
7.948	7.949 (1.194)	57	22118	2.00000	1.902	80.00- 120.00	100.00
7.948	7.949 (1.194)	85	18563			56.00- 116.00	83.93
7.941	7.949 (1.193)	43	60251			228.66- 288.66	272.41
139 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
8.213	8.214 (0.868)	75	24394	2.00000	2.042	80.00- 120.00	100.00
8.213	8.214 (0.868)	77	8513			1.24- 61.24	34.90
8.213	8.214 (0.868)	39	16646			34.11- 94.11	68.24
141 1,1,2-Trichloroethane					CAS #: 79-00-5		
8.400	8.400 (0.888)	97	19362	2.00000	2.008	80.00- 120.00	100.00
8.400	8.400 (0.888)	99	12564			31.96- 91.96	64.89
8.400	8.400 (0.888)	83	17346			52.93- 112.93	89.59
142 Tetrachloroethene					CAS #: 127-18-4		
8.464	8.464 (0.895)	166	28170	2.00000	1.983	80.00- 120.00	100.00
8.464	8.464 (0.895)	129	21640			47.84- 107.84	76.82
8.464	8.464 (0.895)	131	20810			45.29- 105.29	73.87
143 2-Hexanone					CAS #: 591-78-6		
8.586	8.586 (0.908)	58	27816	2.00000	1.995	80.00- 120.00	100.00
8.586	8.586 (0.908)	43	55470			162.87- 222.87	199.42
8.586	8.586 (0.908)	100	4450			0.00- 45.94	16.00
144 1,3-Dichloropropane					CAS #: 142-28-9		
8.579	8.579 (1.288)	76	27760	2.00000	2.102	80.00- 120.00	100.00
8.579	8.579 (1.288)	41	35478			94.99- 154.99	127.80
8.579	8.579 (1.288)	78	9229			2.05- 62.05	33.25

				AMOUNTS				
					CAL-AMT	ON-COL		
	RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
	==	====== ========	====	========	=======	=======	==========	=====
	146 Dibromochloromethane					CAS #: 124-48-1		
	8.801	8.801 (0.930)	129	36760	2.00000	1.973	80.00- 120.00	100.00
	8.801	8.801 (0.930)	127	28370			47.45- 107.45	77.18
	148 1,2-Dibromoethane (EDB)					CAS #: 106-93-4		
	8.951	8.951 (0.946)	107	32272	2.00000	2.011	80.00- 120.00	100.00
	8.951	8.951 (0.946)	109	30370			64.21- 124.21	94.11
	151 1-Bromo-2-Chloroethane					CAS #: 107-04-0		
	7.605	7.605 (1.142)	63	38340	2.00000	2.022	80.00- 120.00	100.00
	7.605	7.605 (1.142)	65	11961			0.00- 59.64	31.20
	7.605	7.605 (1.142)	144	3836			0.00- 39.63	10.01
*	153 Chlorobenzene-d5					CAS #: 3114-55-4		
	9.460	9.460 (1.000)	117	602501	25.0000		80.00- 120.00	100.00
	9.460	9.460 (1.000)	82	328882			23.78- 83.78	54.59
	154 Chlorobenzene					CAS #: 108-90-7		
	9.496	9.496 (1.004)	112	48343	2.00000	2.025	80.00- 120.00	100.00
	9.496	9.496 (1.004)	114	15057			1.74- 61.74	31.15
	9.496	9.496 (1.004)	77	32004			25.04- 85.04	66.20
	155 Ethyl Benzene					CAS #: 100-41-4		
	9.567	9.567 (1.011)	106	24932	2.00000	1.960	80.00- 120.00	100.00
	9.567	9.567 (1.011)	91	76105			273.74- 333.74	305.25
	156 Nonane					CAS #: 111-84-2		
	9.596	9.596 (1.014)	43	63929	2.00000	1.973	80.00- 120.00	100.00
	9.596	9.603 (1.014)	57	51732			54.16- 114.16	80.92
	9.596	9.603 (1.014)	85	15047			0.00- 53.90	23.54
	158 m,p-Xylene					CAS #: 108-38-3		
	9.718	9.718 (1.027)	106	30801	2.00000	1.958	80.00- 120.00	100.00
	9.718	9.718 (1.027)	91	61907			163.73- 223.73	200.99
	164 o-Xylene					CAS #: 95-47-6		
	10.226	10.226 (1.081)	106	31016	2.00000	2.047	80.00- 120.00	100.00
	10.226	10.226 (1.081)	91	61477			177.45- 237.45	198.21
	165 Styrene					CAS #: 100-42-5		
	10.255	10.255 (1.084)	104	51582	2.00000	1.986	80.00- 120.00	100.00
	10.255	10.255 (1.084)	78	24588			17.88- 77.88	47.67
	167 Bromoform					CAS #: 75-25-2		
	10.541	10.542 (1.114)	173	35253	2.00000	1.964	80.00- 120.00	100.00
	10.549	10.542 (1.115)	171	18187			21.25- 81.25	51.59

				AMOUNTS				
					CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE		(PPBV)	(PPBV)	TARGET RANGE	RATIO
168 Cumene						CAS #: 98-82-8		
10.649	10.649 (1.126)	105	92633	2.00000	1.959	80.00- 120.00	100.00	
10.649	10.649 (1.126)	120	25468			0.00- 58.52	27.49	
10.649	10.649 (1.126)	51	12337			0.00- 43.00	13.32	
169 Cyclohexanone						CAS #: 108-94-1		
10.871	10.871 (1.149)	55	34971	2.00000	2.003	80.00- 120.00	100.00(a)	
10.878	10.871 (1.150)	98	11080			1.94- 61.94	31.68	
10.871	10.871 (1.149)	42	22417			37.89- 97.89	64.10	
$ 170 4-Bromofluorobenzene						CAS #: 460-00-4		
10.921	10.921 (1.154)	174	386143	25.0000	25.034	80.00- 120.00	100.00	
10.914	10.921 (1.154)	95	491927			95.92- 155.92	127.40	
10.921	10.921 (1.154)	176	373529			66.89- 126.89	96.73	
175 1,1,2,2-Tetrachloroethane						CAS #: 79-34-5		
11.100	11.100 (1.173)	83	45589	2.00000	1.968	80.00- 120.00	100.00	
11.107	11.100 (1.174)	85	30225			35.20- 95.20	66.30	
177 Bromobenzene						CAS #: 108-86-1		
11.107	11.107 (1.174)	156	29228	2.00000	2.039	80.00- 120.00	100.00	
11.107	11.107 (1.174)	158	27871			67.21- 127.21	95.36	
11.179	11.179 (1.182)	77	16535			29.02- 89.02	56.57	
178 Propylbenzene						CAS #: 103-65-1		
11.150	11.150 (1.179)	120	27541	2.00000	1.952	80.00- 120.00	100.00	
11.150	11.150 (1.179)	91	110564			366.49- 426.49	401.45	
11.150	11.150 (1.179)	105	4410			0.00- 44.85	16.01	
179 1,2,3-Trichloropropane						CAS #: 96-18-4		
11.179	11.179 (1.182)	110	15487	2.00000	2.068	80.00- 120.00	100.00	
11.179	11.179 (1.182)	75	44040			280.55- 340.55	284.37	
11.100	11.100 (1.173)	61	6929			15.49- 75.49	44.74	
181 trans-1,4-Dichloro-2-butene						CAS #: 110-57-6		
11.179	11.179 (1.182)	53	10130	2.00000	2.088	80.00- 120.00	100.00	
11.179	11.179 (1.182)	89	7740			49.11- 109.11	76.41	
11.179	11.179 (1.182)	75	44040			426.44- 486.44	434.75	
182 Decane						CAS #: 124-18-5		
11.251	11.251 (1.189)	57	75743	2.00000	1.938	80.00- 120.00	100.00	
11.251	11.251 (1.189)	71	21477			0.00- 57.66	28.36	
11.258	11.258 (1.190)	142	2780			0.00- 34.09	3.67	
183 4-Ethyltoluene						CAS #: 622-96-8		
11.286	11.287 (1.193)	120	30874	2.00000	2.017	80.00- 120.00	100.00	

				AMOUNTS				
					CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE		(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	=======	==========	=====
183 4-Ethyltoluene (continued)								
11.286	11.287 (1.193)	105	94572				284.55- 344.55	306.32
184 2-Chlorotoluene						CAS #: 95-49-8		
11.308	11.308 (1.195)	126	23935	2.00000		2.009	80.00- 120.00	100.00
11.308	11.308 (1.195)	91	81565				315.17- 375.17	340.78
11.301	11.301 (1.195)	65	12898				21.55- 81.55	53.89
185 1,3,5-Trimethylbenzene						CAS #: 108-67-8		
11.365	11.365 (1.201)	120	40449	2.00000		1.939	80.00- 120.00	100.00
11.365	11.365 (1.201)	105	83373				164.93- 224.93	206.12
188 alpha Methyl Styrene						CAS #: 98-83-9		
11.645	11.645 (1.231)	118	42379	2.00000		2.012	80.00- 120.00	100.00
11.645	11.645 (1.231)	103	23377				25.30- 85.30	55.16
189 tert-Butylbenzene						CAS #: 98-06-6		
11.738	11.738 (1.241)	119	78389	2.00000		2.001	80.00- 120.00	100.00
11.738	11.738 (1.241)	134	18724				0.00- 54.25	23.89
11.738	11.738 (1.241)	91	46791				31.27- 91.27	59.69
190 1,2,4-Trimethylbenzene						CAS #: 95-63-6		
11.816	11.817 (1.249)	105	78168	2.00000		1.959	80.00- 120.00	100.00
11.816	11.817 (1.249)	120	40414				19.05- 79.05	51.70
192 sec-Butylbenzene						CAS #: 135-98-8		
11.996	11.996 (1.268)	134	24394	2.00000		2.013	80.00- 120.00	100.00
11.996	11.996 (1.268)	105	113600				437.55- 497.55	465.69
11.996	11.996 (1.268)	91	17621				40.76- 100.76	72.23
194 p-Cymene						CAS #: 99-87-6		
12.160	12.160 (1.285)	119	104556	2.00000		1.942	80.00- 120.00	100.00
12.153	12.160 (1.285)	134	27205				0.00- 55.54	26.02
12.153	12.153 (1.285)	91	22499				0.00- 51.48	21.52
195 1,3-Dichlorobenzene						CAS #: 541-73-1		
12.196	12.196 (1.289)	146	55740	2.00000		2.016	80.00- 120.00	100.00
12.196	12.196 (1.289)	148	34699				33.21- 93.21	62.25
12.196	12.196 (1.289)	111	22480				11.31- 71.31	40.33
196 1,4-Dichlorobenzene						CAS #: 106-46-7		
12.311	12.311 (1.301)	146	54700	2.00000		1.976	80.00- 120.00	100.00
12.311	12.311 (1.301)	148	35545				33.90- 93.90	64.98
12.311	12.311 (1.301)	111	21710				9.45- 69.45	39.69
199 alpha-Chlorotoluene						CAS #: 100-44-7		
12.461	12.461 (1.317)	91	74656	2.00000		2.000	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
199 alpha-Chlorotoluene (continued)							
12.461	12.461 (1.317)	126	17192			0.00- 53.26	23.03
201 Undecane					CAS #: 1120-21-4		
12.640	12.640 (1.336)	57	87872	2.00000	1.994	80.00- 120.00	100.00
12.640	12.640 (1.336)	43	80279			58.12- 118.12	91.36
202 Butylbenzene					CAS #: 104-51-8		
12.626	12.626 (1.335)	134	28076	2.00000	2.018	80.00- 120.00	100.00
12.626	12.626 (1.335)	91	92470			314.79- 374.79	329.36
12.626	12.626 (1.335)	92	50010			154.29- 214.29	178.12
204 1,2-Dichlorobenzene					CAS #: 95-50-1		
12.733	12.741 (1.346)	146	54244	2.00000	2.034	80.00- 120.00	100.00
12.733	12.741 (1.346)	148	33671			33.84- 93.84	62.07
12.733	12.741 (1.346)	111	23692			12.73- 72.73	43.68
206 1,2-Dibromo-3-chloropropane					CAS #: 96-12-8		
13.600	13.600 (1.438)	157	31809	2.00000	1.969	80.00- 120.00	100.00(a)
13.600	13.600 (1.438)	75	26948			52.48- 112.48	84.72
13.600	13.600 (1.438)	155	24389			47.41- 107.41	76.67
207 Dodecane					CAS #: 112-40-3		
13.801	13.801 (1.459)	57	76973	2.47000	2.484	80.00- 120.00	100.00
13.801	13.801 (1.459)	43	66209			52.87- 112.87	86.02
213 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
14.460	14.467 (1.529)	180	50012	2.52000	2.605	80.00- 120.00	100.00
14.467	14.467 (1.529)	182	47092			65.33- 125.33	94.16
215 Hexachlorobutadiene					CAS #: 87-68-3		
14.581	14.582 (1.541)	225	35349	2.57000	2.658	80.00- 120.00	100.00
14.581	14.582 (1.541)	223	22934			33.17- 93.17	64.88
216 Naphthalene					CAS #: 91-20-3		
14.760	14.768 (1.560)	128	13400	0.25000	0.2587	80.00- 120.00	100.00(a)
14.768	14.768 (1.561)	127	2043			0.00- 42.88	15.25
222 1,2,3-Trichlorobenzene					CAS #: 87-61-6		
15.068	15.069 (1.593)	180	46605	2.66000	2.753	80.00- 120.00	100.00
15.068	15.069 (1.593)	182	42985			65.75- 125.75	92.23
15.061	15.069 (1.592)	145	15683			5.23- 65.23	33.65

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p051905.d
Lab Smp Id: ICAL Level 4
Analysis Type: VOA
Quant Type: ISTD
Operator: LD
Method File: /chem/msdp.i/19MAY21.b/p21q0519a.m
Misc Info: 2.0ppbv (5.0ppbv)

Calibration Date: 19-MAY-2021
Calibration Time: 15:55
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	158810	95286	222334	159831	0.64
108 1,4-Difluorobenze	597103	358262	835944	608981	1.99
153 Chlorobenzene-d5	587747	352648	822846	602501	2.51

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.78	5.45	6.11	5.78	-0.00
108 1,4-Difluorobenze	6.66	6.33	6.99	6.66	-0.00
153 Chlorobenzene-d5	9.46	9.13	9.79	9.46	-0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msdp.i/19MAY21.b/p051905.d

Date : 19-MAY-2021 14:30

Client ID:

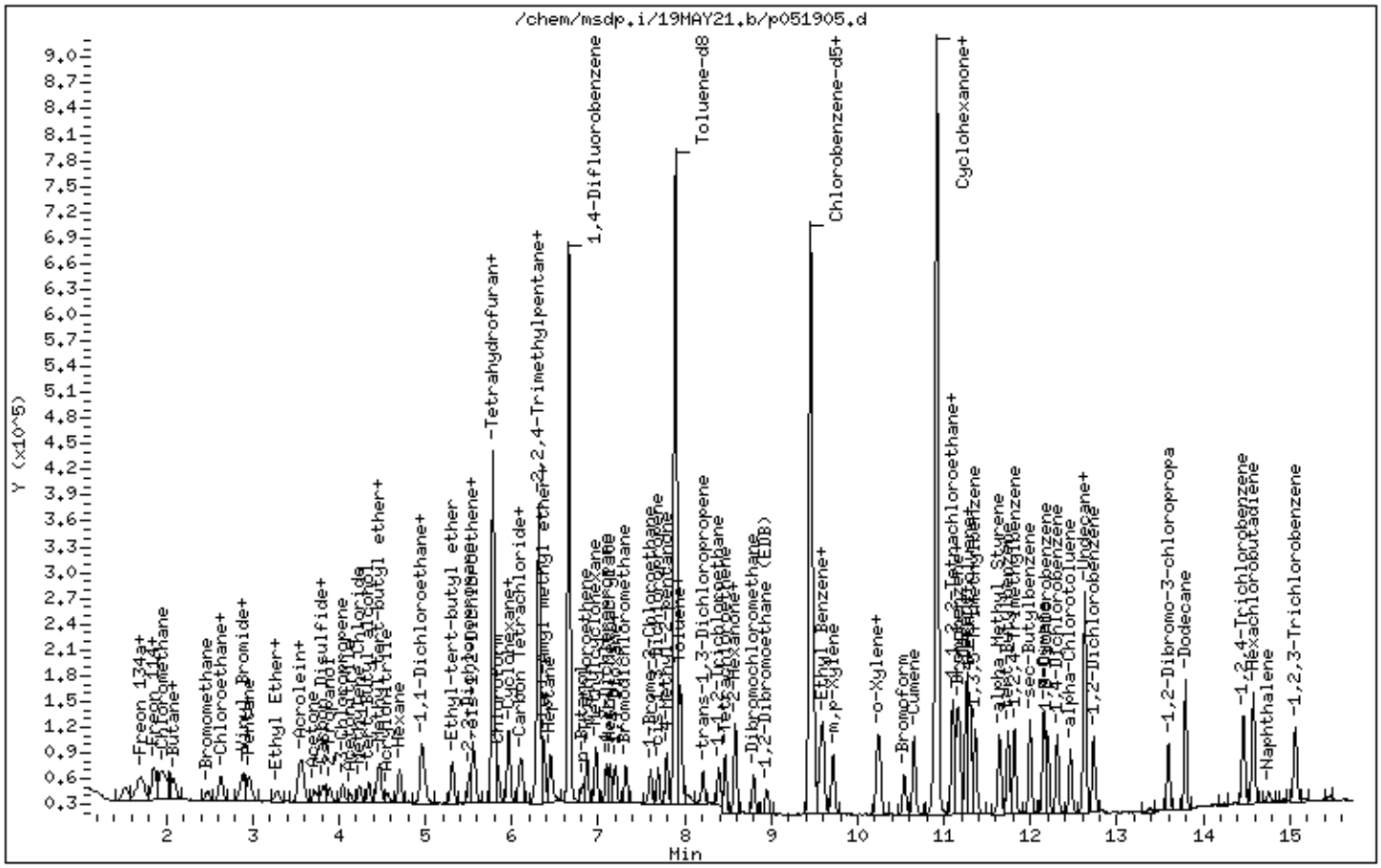
Instrument: msdp.i

Sample Info: 80mL 3018-2045

Operator: LD

Column phase: RTX-624

Column diameter: 0.25



US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/19MAY21.b/p051916.d
Lab Smp Id: ICAL Level 4
Inj Date : 19-MAY-2021 20:13
Operator : gh Inst ID: msdp.i
Smp Info : 80mL 3018-1928
Misc Info : 2.0ppbv (5.0ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/19MAY21.b/p21q0519a.m
Meth Date : 20-May-2021 09:50 lk8g Quant Type: ISTD
Cal Date : 19-MAY-2021 20:13 Cal File: p051916.d
Als bottle: 2 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT20spICAL.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 90 Bromochloromethane					CAS #: 74-97-5		
5.778	5.778 (1.000)	130	156828	25.0000		80.00- 120.00	100.00
5.778	5.778 (1.000)	128	122219			48.23- 108.23	77.93
5.778	5.778 (1.000)	49	287649			150.57- 210.57	183.42
* 108 1,4-Difluorobenzene					CAS #: 540-36-3		
6.659	6.659 (1.000)	114	605078	25.0000		80.00- 120.00	100.00
6.659	6.659 (1.000)	88	96791			0.00- 45.71	16.00
* 153 Chlorobenzene-d5					CAS #: 3114-55-4		
9.460	9.460 (1.000)	117	594880	25.0000		80.00- 120.00	100.00
9.460	9.460 (1.000)	82	325179			23.78- 83.78	54.66
3 Freon 143a					CAS #: 420-46-2		
1.591	1.590 (0.275)	65	7005	2.00000	2.200	80.00- 120.00	100.00
1.591	1.590 (0.275)	69	17061			243.50- 303.50	243.55
1.591	1.590 (0.275)	64	2455			0.00- 54.06	35.05
6 Propane					CAS #: 74-98-6		
1.675	1.674 (0.290)	43	5172	2.00000	1.772	80.00- 120.00	100.00(a)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
6 Propane (continued)							
1.675	1.674 (0.290)	39	4252			34.98- 94.98	82.21
1.675	1.674 (0.290)	41	3543			25.22- 85.22	68.50
13 Freon 142b						CAS #: 75-68-3	
1.898	1.884 (0.329)	65	31581	2.00000	1.959	80.00- 120.00	100.00(a)
1.884	1.884 (0.326)	45	11066			0.00- 59.77	35.04
36 1-Pentene						CAS #: 109-67-1	
2.906	2.906 (0.503)	55	19625	2.00000	1.877	80.00- 120.00	100.00(a)
2.906	2.906 (0.503)	42	27964			105.17- 165.17	142.49
40 Freon 123a						CAS #: 354-23-4	
3.378	3.385 (0.585)	117	19654	2.00000	1.937	80.00- 120.00	100.00(a)
3.386	3.378 (0.586)	67	26135			104.69- 164.69	132.98
41 Freon 123						CAS #: 306-83-2	
3.479	3.479 (0.602)	83	29140	2.00000	2.074	80.00- 120.00	100.00
3.479	3.479 (0.602)	133	6343			0.00- 50.87	21.77
3.479	3.479 (0.602)	85	20407			36.08- 96.08	70.03
55 Cyclopentene						CAS #: 142-29-0	
4.073	4.073 (0.705)	67	30943	2.00000	2.049	80.00- 120.00	100.00
4.073	4.073 (0.705)	68	11219			6.76- 66.76	36.26
4.073	4.073 (0.705)	53	8640			0.00- 57.54	27.92
56 Methyl Acetate						CAS #: 79-20-9	
4.080	4.073 (0.706)	43	37032	2.00000	2.096	80.00- 120.00	100.00(a)
4.080	4.073 (0.706)	74	5940			0.00- 44.13	16.04
74 Chloroprene						CAS #: 126-99-8	
5.019	5.019 (0.869)	53	28789	2.00000	2.062	80.00- 120.00	100.00
5.019	5.019 (0.869)	88	11054			9.21- 69.21	38.40
5.019	5.019 (0.869)	50	7722			0.00- 54.25	26.82
75 1-Propanol						CAS #: 71-23-8	
5.090	5.083 (0.881)	59	4700	2.00000	2.160	80.00- 120.00	100.00
5.090	5.083 (0.881)	42	3899			63.23- 123.23	82.96
5.090	5.083 (0.881)	41	2821			24.74- 84.74	60.02
88 Methyl Acrylate						CAS #: 96-33-3	
5.628	5.620 (0.974)	55	37088	2.00000	1.993	80.00- 120.00	100.00(a)
5.628	5.620 (0.974)	85	5500			0.00- 41.28	14.83
5.628	5.620 (0.974)	58	3509			0.00- 38.22	9.46
103 Isobutanol						CAS #: 78-83-1	
6.244	6.244 (1.081)	39	4047	2.00000	1.753	80.00- 120.00	100.00(a)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
103 Isobutanol (continued)							
6.244	6.244 (1.081)	43	20761			448.18- 508.18	513.00
6.244	6.244 (1.081)	41	13172			299.99- 359.99	325.48
113 Ethyl acrylate					CAS #: 140-88-5		
6.946	6.938 (0.734)	99	2995	2.00000	2.111	80.00- 120.00	100.00
6.946	6.938 (0.734)	45	5574			149.95- 209.95	186.11
6.939	6.938 (0.733)	55	50476			1849.07-1909.07	1685.34
115 2-Pentanone					CAS #: 107-87-9		
7.032	7.031 (0.743)	43	62449	2.00000	2.048	80.00- 120.00	100.00
7.032	7.031 (0.743)	58	4500			0.00- 37.44	7.21
7.032	7.031 (0.743)	86	7757			0.00- 42.78	12.42
145 Butyl Acetate					CAS #: 123-86-4		
8.665	8.665 (1.301)	56	30994	2.00000	2.010	80.00- 120.00	100.00(a)
8.665	8.665 (1.301)	73	9804			0.00- 59.10	31.63
8.665	8.657 (1.301)	43	73858			215.30- 275.30	238.30
157 1,1,1,2-Tetrachloroethane					CAS #: 630-20-6		
9.596	9.596 (1.014)	131	24295	2.00000	1.850	80.00- 120.00	100.00(a)
9.460	9.460 (1.000)	117	594880			57.42- 117.42	2448.57
9.603	9.596 (1.015)	95	9068			5.70- 65.70	37.32
166 2-Heptanone					CAS #: 110-43-0		
10.362	10.362 (1.793)	58	45629	2.00000	1.976	80.00- 120.00	100.00(a)
10.362	10.362 (1.793)	43	77430			136.03- 196.03	169.69
172 D-Limonene					CAS #: 5989-27-5		
12.089	12.089 (1.278)	68	17413	2.00000	1.618	80.00- 120.00	100.00(a)
12.089	12.089 (1.278)	93	11534			39.41- 99.41	66.24
186 4-Chlorotoluene					CAS #: 106-43-4		
11.444	11.444 (1.210)	126	25118	2.00000	2.045	80.00- 120.00	100.00
11.444	11.444 (1.210)	91	72648			295.02- 355.02	289.23
11.444	11.444 (1.210)	63	9860			11.82- 71.82	39.25
197 1,2,3-Trimethylbenzene					CAS #: 526-73-8		
12.318	12.318 (1.302)	120	34881	2.00000	1.964	80.00- 120.00	100.00(a)
12.318	12.318 (1.302)	105	77447			192.40- 252.40	222.03
12.311	12.318 (1.301)	77	8888			0.00- 54.69	25.48
205 Hexachloroethane					CAS #: 67-72-1		
12.963	12.970 (1.370)	201	9631	2.00000	1.605	80.00- 120.00	100.00(a)
12.963	12.970 (1.370)	117	13291			102.99- 162.99	138.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
208 1,3,5-Trichlorobenzene					CAS #: 108-70-3		
13.758	13.758 (1.454)	180	50566	2.00000	2.010	80.00- 120.00	100.00
13.758	13.758 (1.454)	182	47208			65.24- 125.24	93.36
210 alpha-Pinene					CAS #: 80-56-8		
10.599	10.599 (1.120)	93	45684	2.00000	1.964	80.00- 120.00	100.00(a)
10.599	10.599 (1.120)	77	14355			0.00- 58.21	31.42
214 beta-Pinene					CAS #: 127-91-3		
11.415	11.422 (1.207)	93	23101	2.00000	1.704	80.00- 120.00	100.00(a)
11.444	11.444 (1.210)	91	72648			153.57- 213.57	314.48

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p051916.d
Lab Smp Id: ICAL Level 4
Analysis Type: VOA
Quant Type: ISTD
Operator: gh
Method File: /chem/msdp.i/19MAY21.b/p21q0519a.m
Misc Info: 2.0ppbv (5.0ppbv)

Calibration Date: 19-MAY-2021
Calibration Time: 15:55
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	158810	95286	222334	156828	-1.25
108 1,4-Difluorobenze	597103	358262	835944	605078	1.34
153 Chlorobenzene-d5	587747	352648	822846	594880	1.21

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.78	5.45	6.11	5.78	-0.00
108 1,4-Difluorobenze	6.66	6.33	6.99	6.66	-0.00
153 Chlorobenzene-d5	9.46	9.13	9.79	9.46	-0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msdp.i/19MAY21.b/p051916.d

Date : 19-MAY-2021 20:13

Client ID:

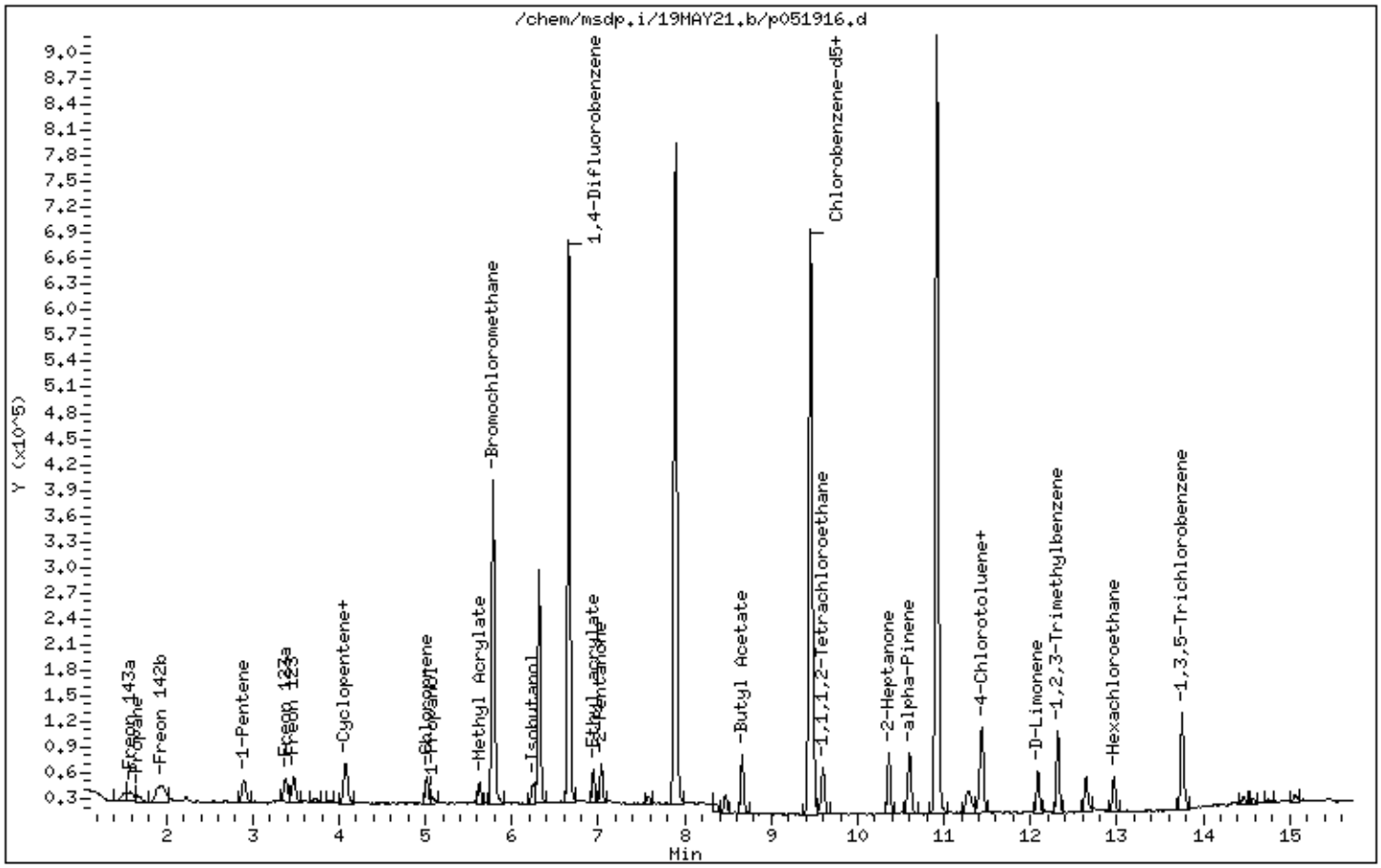
Instrument: msdp.i

Sample Info: 80mL 3018-1928

Operator: gh

Column phase: RTX-624

Column diameter: 0.25



US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/19MAY21.b/p051906.d
Lab Smp Id: ICAL Level 5
Inj Date : 19-MAY-2021 15:00
Operator : LD Inst ID: msdp.i
Smp Info : 200mL 3018-2045
Misc Info : 5.0ppbv (5.0ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/19MAY21.b/p21q0519a.m
Meth Date : 20-May-2021 09:50 lk8g Quant Type: ISTD
Cal Date : 19-MAY-2021 20:43 Cal File: p051917.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT20ICAL.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
4 Freon 134a					CAS #: 811-97-2		
1.661	1.633 (0.287)	83	23995	5.00000	4.931	80.00- 120.00	100.00
1.661	1.633 (0.287)	69	22578			59.44- 119.44	94.09
1.759	1.745 (0.304)	51	102230			419.06- 479.06	426.05
5 Propylene					CAS #: 115-07-1		
1.689	1.675 (0.292)	41	35760	5.00000	4.916	80.00- 120.00	100.00
1.689	1.675 (0.292)	42	24631			35.28- 95.28	68.88
1.689	1.675 (0.292)	39	23528			38.35- 98.35	65.79
7 1,1-Difluoroethane					CAS #: 75-37-6		
1.703	1.703 (0.294)	65	15753	5.00000	4.318	80.00- 120.00	100.00
1.759	1.745 (0.304)	51	102230			597.63- 657.63	648.96
1.717	1.703 (0.297)	47	10143			33.72- 93.72	64.39
8 Freon 12					CAS #: 75-71-8		
1.717	1.717 (0.297)	85	74104	5.00000	5.482	80.00- 120.00	100.00
1.717	1.717 (0.297)	87	24165			2.37- 62.37	32.61
9 Chlorodifluoromethane					CAS #: 75-45-6		
1.759	1.745 (0.304)	67	7019	5.00000	5.292	80.00- 120.00	100.00

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
9 Chlorodifluoromethane (continued)							
1.759	1.745 (0.304)	51	102230			1501.01-1561.01	1456.48
10 Freon 114					CAS #: 76-14-2		
1.857	1.856 (0.321)	135	74492	5.00000	5.312	80.00- 120.00	100.00
1.857	1.856 (0.321)	137	23699			2.30- 62.30	31.81
12 Isobutane					CAS #: 75-28-5		
1.871	1.870 (0.323)	43	83131	5.00000	5.099	80.00- 120.00	100.00
1.871	1.870 (0.323)	42	28746			2.44- 62.44	34.58
1.871	1.856 (0.323)	58	3128			0.00- 33.36	3.76
15 Chloromethane					CAS #: 74-87-3		
1.954	1.940 (0.338)	50	34644	5.00000	4.063	80.00- 120.00	100.00
1.954	1.940 (0.338)	52	9203			0.00- 56.26	26.56
18 Butane					CAS #: 106-97-8		
2.032	2.025 (0.351)	58	10771	5.00000	5.513	80.00- 120.00	100.00
2.039	2.025 (0.352)	43	81676			823.29- 883.29	758.30
19 Vinyl Chloride					CAS #: 75-01-4		
2.075	2.068 (0.359)	62	52333	5.00000	5.191	80.00- 120.00	100.00
2.075	2.068 (0.359)	64	16408			0.00- 59.69	31.35
20 1,3-Butadiene					CAS #: 106-99-0		
2.104	2.089 (0.364)	54	34439	5.00000	4.748	80.00- 120.00	100.00
2.096	2.089 (0.362)	39	40510			52.37- 112.37	117.63
24 Bromomethane					CAS #: 74-83-9		
2.483	2.483 (0.429)	94	37056	5.00000	5.477	80.00- 120.00	100.00
2.483	2.483 (0.429)	96	35000			64.07- 124.07	94.45
30 Chloroethane					CAS #: 75-00-3		
2.619	2.612 (0.453)	64	20225	5.00000	5.684	80.00- 120.00	100.00
2.619	2.612 (0.453)	66	5966			0.04- 60.04	29.50
2.612	2.612 (0.452)	49	6111			4.54- 64.54	30.22
31 Isopentane					CAS #: 78-78-4		
2.641	2.634 (0.456)	43	54200	5.00000	5.198	80.00- 120.00	100.00
2.641	2.634 (0.456)	57	34951			34.12- 94.12	64.49
32 Vinyl Bromide					CAS #: 593-60-2		
2.849	2.841 (0.492)	106	30600	5.00000	5.302	80.00- 120.00	100.00
2.849	2.841 (0.492)	108	29476			69.27- 129.27	96.33
33 Freon 11					CAS #: 75-69-4		
2.891	2.884 (0.500)	101	77104	5.00000	5.291	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
33 Freon 11 (continued)							
2.891	2.884 (0.500)	103	50811			34.72- 94.72	65.90
34 Dichlorofluoromethane					CAS #: 75-43-4		
2.906	2.899 (0.502)	67	65512	5.00000	5.152	80.00- 120.00	100.00
2.906	2.899 (0.502)	69	21322			0.84- 60.84	32.55
35 Pentane					CAS #: 109-66-0		
2.970	2.970 (0.513)	43	87490	5.00000	5.059	80.00- 120.00	100.00
2.970	2.970 (0.513)	57	12542			0.00- 44.98	14.34
2.970	2.970 (0.513)	72	6373			0.00- 37.39	7.28
38 Ethyl Ether					CAS #: 60-29-7		
3.293	3.285 (0.569)	74	15538	5.00000	5.437	80.00- 120.00	100.00
3.293	3.285 (0.569)	59	30441			163.46- 223.46	195.91
3.285	3.285 (0.568)	45	42142			250.40- 310.40	271.22
39 Ethanol					CAS #: 64-17-5		
3.250	3.242 (0.562)	46	7863	5.00000	4.992	80.00- 120.00	100.00
3.285	3.242 (0.568)	45	41557			511.19- 571.19	528.51
42 Acrolein					CAS #: 107-02-8		
3.543	3.529 (0.612)	55	14233	5.00000	5.312	80.00- 120.00	100.00
3.543	3.529 (0.612)	56	18296			111.10- 171.10	128.55
43 Freon 113					CAS #: 76-13-1		
3.550	3.550 (0.614)	151	56770	5.00000	5.289	80.00- 120.00	100.00
3.558	3.550 (0.615)	153	35706			33.56- 93.56	62.90
3.550	3.550 (0.614)	101	68951			89.21- 149.21	121.46
44 1,1-Dichloroethene					CAS #: 75-35-4		
3.586	3.579 (0.620)	96	33311	5.00000	5.191	80.00- 120.00	100.00
3.586	3.579 (0.620)	98	21526			34.02- 94.02	64.62
3.586	3.579 (0.620)	61	66191			168.77- 228.77	198.71
47 Acetone					CAS #: 67-64-1		
3.722	3.708 (0.643)	58	20489	5.00000	4.976	80.00- 120.00	100.00
3.722	3.708 (0.643)	43	68525			302.95- 362.95	334.45
48 Carbon Disulfide					CAS #: 75-15-0		
3.830	3.823 (0.662)	76	91954	5.00000	5.292	80.00- 120.00	100.00
49 Iodomethane					CAS #: 74-88-4		
3.801	3.794 (0.657)	142	34575	5.00000	3.786	80.00- 120.00	100.00
3.801	3.794 (0.657)	127	14689			12.22- 72.22	42.48

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
52 2-Propanol					CAS #: 67-63-0		
3.894	3.887 (0.673)	45	81715	5.00000	5.020	80.00- 120.00	100.00
3.901	3.887 (0.674)	43	14133			0.00- 47.19	17.30
54 3-Chloropropene					CAS #: 107-05-1		
4.052	4.052 (0.700)	76	15048	5.00000	5.111	80.00- 120.00	100.00
4.052	4.052 (0.700)	41	60762			396.19- 456.19	403.79
57 Acetonitrile					CAS #: 75-05-8		
4.131	4.123 (0.714)	41	39661	5.00000	5.288	80.00- 120.00	100.00
4.138	4.123 (0.715)	40	25399			20.95- 80.95	64.04
4.138	4.123 (0.715)	38	4002			0.00- 41.17	10.09
59 Methylene Chloride					CAS #: 75-09-2		
4.238	4.238 (0.733)	49	56613	5.00000	5.369	80.00- 120.00	100.00
4.238	4.238 (0.733)	84	29850			22.03- 82.03	52.73
4.238	4.238 (0.733)	51	17301			0.18- 60.18	30.56
62 tert-Butyl alcohol					CAS #: 75-65-0		
4.346	4.338 (0.751)	59	101502	5.00000	5.272	80.00- 120.00	100.00
4.346	4.338 (0.751)	41	20240			0.00- 51.11	19.94
4.346	4.338 (0.751)	57	10646			0.00- 40.49	10.49
63 Methyl tert-butyl ether					CAS #: 1634-04-4		
4.453	4.446 (0.770)	73	95601	5.00000	5.059	80.00- 120.00	100.00
4.453	4.446 (0.770)	57	32712			3.10- 63.10	34.22
4.446	4.446 (0.768)	41	29468			1.28- 61.28	30.82
64 trans-1,2-Dichloroethene					CAS #: 156-60-5		
4.482	4.482 (0.775)	98	22139	5.00000	5.128	80.00- 120.00	100.00
4.482	4.482 (0.775)	61	65349			255.84- 315.84	295.18
4.482	4.482 (0.775)	96	35688			127.59- 187.59	161.20
66 Acrylonitrile					CAS #: 107-13-1		
4.568	4.560 (0.790)	52	31636	5.00000	5.067	80.00- 120.00	100.00
4.568	4.560 (0.790)	53	37230			88.05- 148.05	117.68
67 Hexane					CAS #: 110-54-3		
4.697	4.697 (0.812)	57	78566	5.00000	5.242	80.00- 120.00	100.00
4.697	4.697 (0.812)	43	52548			37.52- 97.52	66.88
4.697	4.697 (0.812)	86	8762			0.00- 41.48	11.15
71 1,1-Dichloroethane					CAS #: 75-34-3		
4.969	4.962 (0.859)	63	71027	5.00000	5.330	80.00- 120.00	100.00
4.969	4.962 (0.859)	65	20959			0.00- 59.70	29.51

				AMOUNTS				
					CAL-AMT	ON-COL		
	RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
	72 Isopropyl ether						CAS #: 108-20-3	
	4.954	4.954 (0.856)	45	175979	5.00000	5.056	80.00- 120.00	100.00
	4.954	4.954 (0.856)	87	32174			0.00- 48.18	18.28
	4.954	4.954 (0.856)	59	19101			0.00- 40.15	10.85
	73 Vinyl Acetate						CAS #: 108-05-4	
	4.997	4.997 (0.864)	86	8490	5.00000	5.067	80.00- 120.00	100.00
	4.997	4.997 (0.864)	43	210809			2432.48-2492.48	2483.03
	79 Ethyl-tert-butyl ether						CAS #: 637-92-3	
	5.305	5.305 (0.917)	59	155272	5.00000	5.130	80.00- 120.00	100.00
	5.313	5.305 (0.918)	87	47844			1.00- 61.00	30.81
	5.305	5.305 (0.917)	41	29096			0.00- 48.73	18.74
	84 2,2-Dichloropropane						CAS #: 594-20-7	
	5.506	5.506 (0.952)	77	57515	5.00000	5.111	80.00- 120.00	100.00
	5.506	5.506 (0.952)	79	19126			2.28- 62.28	33.25
	5.513	5.506 (0.953)	97	14288			0.00- 53.93	24.84
	85 cis-1,2-Dichloroethene						CAS #: 156-59-2	
	5.549	5.549 (0.959)	98	23684	5.00000	5.416	80.00- 120.00	100.00
	5.549	5.549 (0.959)	96	37228			125.75- 185.75	157.19
	5.549	5.549 (0.959)	61	88318			332.40- 392.40	372.90
	86 2-Butanone						CAS #: 78-93-3	
	5.563	5.556 (0.962)	72	18843	5.00000	5.301	80.00- 120.00	100.00
	5.570	5.556 (0.963)	43	231029			1214.50-1274.50	1226.07
	5.556	5.556 (0.960)	57	9599			14.68- 74.68	50.94
	87 Ethyl Acetate						CAS #: 141-78-6	
	5.578	5.570 (0.964)	45	18229	5.00000	5.206	80.00- 120.00	100.00
	5.549	5.549 (0.959)	61	88318			452.04- 512.04	484.49
	5.578	5.570 (0.964)	70	9745			22.77- 82.77	53.46
	89 Tetrahydrofuran						CAS #: 109-99-9	
	5.778	5.771 (0.999)	42	62552	5.00000	5.248	80.00- 120.00	100.00
	5.778	5.771 (0.999)	71	16889			0.00- 55.82	27.00
	5.778	5.771 (0.999)	72	17687			0.00- 57.59	28.28
*	90 Bromochloromethane						CAS #: 74-97-5	
	5.785	5.778 (1.000)	130	153560	25.0000		80.00- 120.00	100.00
	5.785	5.778 (1.000)	128	120740			48.23- 108.23	78.63
	5.785	5.778 (1.000)	49	285150			150.57- 210.57	185.69
	92 Chloroform						CAS #: 67-66-3	
	5.843	5.835 (1.010)	83	72304	5.00000	5.396	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
92 Chloroform (continued)							
5.835	5.835 (1.009)	85	48644			34.70- 94.70	67.28
94 Cyclohexane					CAS #: 110-82-7		
5.957	5.957 (1.030)	84	48651	5.00000	5.230	80.00- 120.00	100.00
5.957	5.957 (1.030)	56	84034			142.57- 202.57	172.73
5.957	5.957 (1.030)	41	47136			62.09- 122.09	96.89
96 1,1,1-Trichloroethane					CAS #: 71-55-6		
5.972	5.972 (1.032)	97	76302	5.00000	5.101	80.00- 120.00	100.00
5.972	5.972 (1.032)	99	48638			34.02- 94.02	63.74
97 Carbon Tetrachloride					CAS #: 56-23-5		
6.086	6.086 (1.052)	119	68353	5.00000	4.926	80.00- 120.00	100.00
6.086	6.086 (1.052)	117	69130			70.64- 130.64	101.14
99 1,1-Dichloropropene					CAS #: 563-58-6		
6.122	6.115 (0.918)	110	21692	5.00000	5.091	80.00- 120.00	100.00
6.115	6.115 (0.917)	75	54412			226.85- 286.85	250.84
101 2,2,4-Trimethylpentane					CAS #: 540-84-1		
6.280	6.280 (1.085)	57	268783	5.00000	5.166	80.00- 120.00	100.00
6.280	6.280 (1.085)	56	86771			2.24- 62.24	32.28
6.280	6.280 (1.085)	41	65018			0.00- 54.39	24.19
102 Benzene					CAS #: 71-43-2		
6.301	6.301 (0.945)	78	103868	5.00000	5.071	80.00- 120.00	100.00
6.301	6.301 (0.945)	77	24431			0.00- 52.90	23.52
$ 104 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
6.315	6.308 (1.092)	65	219202	25.0000	26.408	80.00- 120.00	100.00
6.315	6.308 (1.092)	67	110588			27.21- 87.21	50.45
105 tert-Amyl methyl ether					CAS #: 994-05-8		
6.358	6.358 (0.954)	87	27837	5.00000	4.798	80.00- 120.00	100.00
6.358	6.358 (0.954)	73	110361			372.79- 432.79	396.45
6.358	6.358 (0.954)	55	40445			112.09- 172.09	145.29
106 1,2-Dichloroethane					CAS #: 107-06-2		
6.380	6.380 (0.957)	62	57760	5.00000	5.314	80.00- 120.00	100.00
6.380	6.380 (0.957)	64	18494			0.79- 60.79	32.02
107 Heptane					CAS #: 142-82-5		
6.452	6.444 (0.968)	71	40838	5.00000	5.157	80.00- 120.00	100.00
6.452	6.444 (0.968)	43	109706			226.53- 286.53	268.64
6.452	6.444 (0.968)	57	53636			100.85- 160.85	131.34

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
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* 108 1,4-Difluorobenzene						CAS #: 540-36-3	
6.666	6.659 (1.000)	114	614215	25.0000		80.00- 120.00	100.00
6.659	6.659 (1.000)	88	99192			0.00- 45.71	16.15
110 n-Butanol						CAS #: 71-36-3	
6.817	6.810 (1.023)	56	37585	5.00000	5.115	80.00- 120.00	100.00
6.817	6.810 (1.023)	41	25791			40.99- 100.99	68.62
6.817	6.810 (1.023)	43	19657			27.38- 87.38	52.30
111 Trichloroethene						CAS #: 79-01-6	
6.867	6.867 (1.030)	95	50753	5.00000	5.124	80.00- 120.00	100.00
6.867	6.867 (1.030)	130	55306			76.29- 136.29	108.97
6.867	6.867 (1.030)	97	33227			33.63- 93.63	65.47
114 1,2-Dichloropropane						CAS #: 78-87-5	
7.096	7.089 (1.064)	63	52290	5.00000	4.994	80.00- 120.00	100.00
7.096	7.089 (1.064)	62	37275			41.07- 101.07	71.29
7.096	7.089 (1.064)	41	32092			22.53- 82.53	61.37
116 Methyl Methacrylate						CAS #: 80-62-6	
7.139	7.132 (0.755)	69	42786	5.00000	5.002	80.00- 120.00	100.00
7.139	7.132 (0.755)	41	84724			179.84- 239.84	198.02
7.139	7.139 (0.755)	100	16675			9.59- 69.59	38.97
117 1,4-Dioxane						CAS #: 123-91-1	
7.182	7.175 (1.077)	88	29029	5.00000	5.128	80.00- 120.00	100.00
7.182	7.175 (1.077)	58	30676			68.28- 128.28	105.67
7.175	7.175 (1.076)	57	10403			2.68- 62.68	35.84
118 Dibromomethane						CAS #: 74-95-3	
7.204	7.204 (0.761)	174	48548	5.00000	5.183	80.00- 120.00	100.00
7.204	7.204 (0.761)	93	44155			60.09- 120.09	90.95
7.204	7.204 (0.761)	95	37033			48.38- 108.38	76.28
122 Bromodichloromethane						CAS #: 75-27-4	
7.318	7.318 (1.098)	83	79651	5.00000	5.195	80.00- 120.00	100.00
7.318	7.318 (1.098)	85	50267			35.24- 95.24	63.11
126 cis-1,3-Dichloropropene						CAS #: 10061-01-5	
7.698	7.691 (1.155)	75	66685	5.00000	5.188	80.00- 120.00	100.00
7.691	7.691 (1.154)	77	20474			2.42- 62.42	30.70
7.698	7.691 (1.155)	39	45208			37.16- 97.16	67.79
127 Methylcyclohexane						CAS #: 108-87-2	
6.974	6.974 (1.046)	83	68708	5.00000	4.834	80.00- 120.00	100.00
6.974	6.974 (1.046)	98	32707			15.78- 75.78	47.60

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
127 Methylcyclohexane (continued)							
6.974	6.974 (1.046)	55	78753			84.64- 144.64	114.62
131 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.798	7.791 (1.170)	58	52502	5.00000	5.020	80.00- 120.00	100.00
7.798	7.791 (1.170)	43	142064			242.35- 302.35	270.59
7.798	7.791 (1.170)	85	17584			3.24- 63.24	33.49
$ 134 Toluene-d8					CAS #: 2037-26-5		
7.891	7.891 (1.184)	98	675430	25.0000	25.276	80.00- 120.00	100.00
7.891	7.891 (1.184)	70	73047			0.00- 40.44	10.81
7.891	7.891 (1.184)	100	435947			34.95- 94.95	64.54
137 Toluene					CAS #: 108-88-3		
7.956	7.949 (1.193)	91	142004	5.00000	5.011	80.00- 120.00	100.00
7.956	7.949 (1.193)	92	83371			28.38- 88.38	58.71
136 Octane					CAS #: 111-65-9		
7.949	7.949 (1.192)	57	58129	5.00000	4.968	80.00- 120.00	100.00
7.949	7.949 (1.192)	85	50245			56.00- 116.00	86.44
7.949	7.949 (1.192)	43	157708			228.66- 288.66	271.31
139 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
8.214	8.214 (0.868)	75	61054	5.00000	4.981	80.00- 120.00	100.00
8.214	8.214 (0.868)	77	20798			1.24- 61.24	34.06
8.214	8.214 (0.868)	39	41024			34.11- 94.11	67.19
141 1,1,2-Trichloroethane					CAS #: 79-00-5		
8.400	8.400 (0.888)	97	49333	5.00000	4.984	80.00- 120.00	100.00
8.400	8.400 (0.888)	99	30960			31.96- 91.96	62.76
8.400	8.400 (0.888)	83	42360			52.93- 112.93	85.87
142 Tetrachloroethene					CAS #: 127-18-4		
8.464	8.464 (0.895)	166	71008	5.00000	4.897	80.00- 120.00	100.00
8.464	8.464 (0.895)	129	56371			47.84- 107.84	79.39
8.464	8.464 (0.895)	131	53822			45.29- 105.29	75.80
143 2-Hexanone					CAS #: 591-78-6		
8.586	8.586 (0.908)	58	73185	5.00000	5.071	80.00- 120.00	100.00
8.586	8.586 (0.908)	43	139375			162.87- 222.87	190.44
8.586	8.586 (0.908)	100	11054			0.00- 45.94	15.10
144 1,3-Dichloropropane					CAS #: 142-28-9		
8.579	8.579 (1.287)	76	69233	5.00000	5.146	80.00- 120.00	100.00
8.579	8.579 (1.287)	41	91020			94.99- 154.99	131.47
8.579	8.579 (1.287)	78	23803			2.05- 62.05	34.38

				AMOUNTS				
					CAL-AMT	ON-COL		
	RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
	==	====== ========	====	========	=======	=======	==========	=====
	146 Dibromochloromethane					CAS #: 124-48-1		
	8.801	8.801 (0.930)	129	91590	5.00000	4.835	80.00- 120.00	100.00
	8.801	8.801 (0.930)	127	70825			47.45- 107.45	77.33
	148 1,2-Dibromoethane (EDB)					CAS #: 106-93-4		
	8.951	8.951 (0.946)	107	81392	5.00000	4.951	80.00- 120.00	100.00
	8.951	8.951 (0.946)	109	77262			64.21- 124.21	94.93
	151 1-Bromo-2-Chloroethane					CAS #: 107-04-0		
	7.605	7.605 (1.141)	63	98471	5.00000	5.098	80.00- 120.00	100.00
	7.605	7.605 (1.141)	65	28839			0.00- 59.64	29.29
	7.612	7.605 (1.142)	144	9784			0.00- 39.63	9.94
*	153 Chlorobenzene-d5					CAS #: 3114-55-4		
	9.460	9.460 (1.000)	117	619157	25.0000		80.00- 120.00	100.00
	9.460	9.460 (1.000)	82	334026			23.78- 83.78	53.95
	154 Chlorobenzene					CAS #: 108-90-7		
	9.496	9.496 (1.004)	112	124593	5.00000	5.059	80.00- 120.00	100.00
	9.496	9.496 (1.004)	114	38052			1.74- 61.74	30.54
	9.496	9.496 (1.004)	77	71532			25.04- 85.04	57.41
	155 Ethyl Benzene					CAS #: 100-41-4		
	9.567	9.567 (1.011)	106	62027	5.00000	4.807	80.00- 120.00	100.00
	9.567	9.567 (1.011)	91	188972			273.74- 333.74	304.66
	156 Nonane					CAS #: 111-84-2		
	9.603	9.596 (1.015)	43	159252	5.00000	4.835	80.00- 120.00	100.00
	9.603	9.603 (1.015)	57	134249			54.16- 114.16	84.30
	9.603	9.603 (1.015)	85	35745			0.00- 53.90	22.45
	158 m,p-Xylene					CAS #: 108-38-3		
	9.718	9.718 (1.027)	106	78963	5.00000	4.914	80.00- 120.00	100.00
	9.718	9.718 (1.027)	91	153333			163.73- 223.73	194.18
	164 o-Xylene					CAS #: 95-47-6		
	10.226	10.226 (1.081)	106	75798	5.00000	4.901	80.00- 120.00	100.00
	10.226	10.226 (1.081)	91	152985			177.45- 237.45	201.83
	165 Styrene					CAS #: 100-42-5		
	10.255	10.255 (1.084)	104	128486	5.00000	4.859	80.00- 120.00	100.00
	10.255	10.255 (1.084)	78	63172			17.88- 77.88	49.17
	167 Bromoform					CAS #: 75-25-2		
	10.549	10.542 (1.115)	173	90352	5.00000	4.922	80.00- 120.00	100.00
	10.549	10.542 (1.115)	171	45856			21.25- 81.25	50.75

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE		RATIO
168 Cumene						CAS #: 98-82-8		
10.649	10.649 (1.126)	105	240077	5.00000	4.956	80.00- 120.00		100.00
10.656	10.649 (1.126)	120	66515			0.00- 58.52		27.71
10.649	10.649 (1.126)	51	32083			0.00- 43.00		13.36
169 Cyclohexanone						CAS #: 108-94-1		
10.871	10.871 (1.149)	55	82861	5.00000	4.708	80.00- 120.00		100.00(a)
10.871	10.871 (1.149)	98	26897			1.94- 61.94		32.46
10.871	10.871 (1.149)	42	53882			37.89- 97.89		65.03
$ 170 4-Bromofluorobenzene						CAS #: 460-00-4		
10.921	10.921 (1.154)	174	395495	25.0000	24.963	80.00- 120.00		100.00
10.921	10.921 (1.154)	95	504864			95.92- 155.92		127.65
10.921	10.921 (1.154)	176	377124			66.89- 126.89		95.35
175 1,1,2,2-Tetrachloroethane						CAS #: 79-34-5		
11.107	11.100 (1.174)	83	115941	5.00000	4.902	80.00- 120.00		100.00
11.107	11.100 (1.174)	85	75106			35.20- 95.20		64.78
177 Bromobenzene						CAS #: 108-86-1		
11.107	11.107 (1.174)	156	72185	5.00000	4.925	80.00- 120.00		100.00
11.107	11.107 (1.174)	158	70501			67.21- 127.21		97.67
11.179	11.179 (1.182)	77	42638			29.02- 89.02		59.07
178 Propylbenzene						CAS #: 103-65-1		
11.150	11.150 (1.179)	120	70283	5.00000	4.886	80.00- 120.00		100.00
11.150	11.150 (1.179)	91	273213			366.49- 426.49		388.73
11.150	11.150 (1.179)	105	11389			0.00- 44.85		16.20
179 1,2,3-Trichloropropane						CAS #: 96-18-4		
11.179	11.179 (1.182)	110	35448	5.00000	4.699	80.00- 120.00		100.00
11.179	11.179 (1.182)	75	108981			280.55- 340.55		307.44
11.100	11.100 (1.173)	61	16930			15.49- 75.49		47.76
181 trans-1,4-Dichloro-2-butene						CAS #: 110-57-6		
11.179	11.179 (1.182)	53	24562	5.00000	4.944	80.00- 120.00		100.00
11.179	11.179 (1.182)	89	19278			49.11- 109.11		78.49
11.179	11.179 (1.182)	75	108981			426.44- 486.44		443.70
182 Decane						CAS #: 124-18-5		
11.251	11.251 (1.189)	57	178943	5.00000	4.581	80.00- 120.00		100.00
11.251	11.251 (1.189)	71	50239			0.00- 57.66		28.08
11.258	11.258 (1.190)	142	7536			0.00- 34.09		4.21
183 4-Ethyltoluene						CAS #: 622-96-8		
11.287	11.287 (1.193)	120	74542	5.00000	4.802	80.00- 120.00		100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
183 4-Ethyltoluene (continued)							
11.287	11.287 (1.193)	105	236331			284.55- 344.55	317.04
184 2-Chlorotoluene					CAS #: 95-49-8		
11.308	11.308 (1.195)	126	59824	5.00000	4.914	80.00- 120.00	100.00
11.308	11.308 (1.195)	91	202772			315.17- 375.17	338.95
11.301	11.301 (1.195)	65	31085			21.55- 81.55	51.96
185 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
11.365	11.365 (1.201)	120	105493	5.00000	4.941	80.00- 120.00	100.00
11.365	11.365 (1.201)	105	204343			164.93- 224.93	193.70
188 alpha Methyl Styrene					CAS #: 98-83-9		
11.645	11.645 (1.231)	118	103352	5.00000	4.828	80.00- 120.00	100.00
11.645	11.645 (1.231)	103	55037			25.30- 85.30	53.25
189 tert-Butylbenzene					CAS #: 98-06-6		
11.738	11.738 (1.241)	119	195585	5.00000	4.893	80.00- 120.00	100.00
11.745	11.738 (1.242)	134	47923			0.00- 54.25	24.50
11.738	11.738 (1.241)	91	122078			31.27- 91.27	62.42
190 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
11.817	11.817 (1.249)	105	197002	5.00000	4.852	80.00- 120.00	100.00
11.817	11.817 (1.249)	120	100446			19.05- 79.05	50.99
192 sec-Butylbenzene					CAS #: 135-98-8		
11.996	11.996 (1.268)	134	61201	5.00000	4.936	80.00- 120.00	100.00
11.996	11.996 (1.268)	105	289294			437.55- 497.55	472.69
11.996	11.996 (1.268)	91	43669			40.76- 100.76	71.35
194 p-Cymene					CAS #: 99-87-6		
12.160	12.160 (1.285)	119	263591	5.00000	4.820	80.00- 120.00	100.00
12.160	12.160 (1.285)	134	69874			0.00- 55.54	26.51
12.160	12.153 (1.285)	91	57763			0.00- 51.48	21.91
195 1,3-Dichlorobenzene					CAS #: 541-73-1		
12.203	12.196 (1.290)	146	138345	5.00000	4.901	80.00- 120.00	100.00
12.203	12.196 (1.290)	148	88212			33.21- 93.21	63.76
12.196	12.196 (1.289)	111	57941			11.31- 71.31	41.88
196 1,4-Dichlorobenzene					CAS #: 106-46-7		
12.311	12.311 (1.301)	146	139853	5.00000	4.937	80.00- 120.00	100.00
12.311	12.311 (1.301)	148	90352			33.90- 93.90	64.60
12.311	12.311 (1.301)	111	54179			9.45- 69.45	38.74
199 alpha-Chlorotoluene					CAS #: 100-44-7		
12.461	12.461 (1.317)	91	190239	5.00000	4.969	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
199 alpha-Chlorotoluene (continued)							
12.461	12.461 (1.317)	126	42809			0.00- 53.26	22.50
201 Undecane					CAS #: 1120-21-4		
12.640	12.640 (1.336)	57	220225	5.00000	4.896	80.00- 120.00	100.00
12.640	12.640 (1.336)	43	195864			58.12- 118.12	88.94
202 Butylbenzene					CAS #: 104-51-8		
12.626	12.626 (1.335)	134	68631	5.00000	4.849	80.00- 120.00	100.00
12.626	12.626 (1.335)	91	231841			314.79- 374.79	337.81
12.626	12.626 (1.335)	92	123591			154.29- 214.29	180.08
204 1,2-Dichlorobenzene					CAS #: 95-50-1		
12.741	12.741 (1.347)	146	136005	5.00000	4.972	80.00- 120.00	100.00
12.741	12.741 (1.347)	148	85924			33.84- 93.84	63.18
12.733	12.741 (1.346)	111	58979			12.73- 72.73	43.37
206 1,2-Dibromo-3-chloropropane					CAS #: 96-12-8		
13.600	13.600 (1.438)	157	79532	5.00000	4.858	80.00- 120.00	100.00
13.600	13.600 (1.438)	75	66463			52.48- 112.48	83.57
13.600	13.600 (1.438)	155	62161			47.41- 107.41	78.16
207 Dodecane					CAS #: 112-40-3		
13.801	13.801 (1.459)	57	213240	6.18000	6.559	80.00- 120.00	100.00
13.801	13.801 (1.459)	43	173340			52.87- 112.87	81.29
213 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
14.467	14.467 (1.529)	180	130791	6.30000	6.544	80.00- 120.00	100.00
14.467	14.467 (1.529)	182	126487			65.33- 125.33	96.71
215 Hexachlorobutadiene					CAS #: 87-68-3		
14.582	14.582 (1.541)	225	92162	6.44000	6.665	80.00- 120.00	100.00
14.582	14.582 (1.541)	223	58371			33.17- 93.17	63.34
216 Naphthalene					CAS #: 91-20-3		
14.768	14.768 (1.561)	128	32129	0.64000	0.6122	80.00- 120.00	100.00
14.761	14.768 (1.560)	127	4372			0.00- 42.88	13.61
222 1,2,3-Trichlorobenzene					CAS #: 87-61-6		
15.069	15.069 (1.593)	180	118701	6.66000	6.782	80.00- 120.00	100.00
15.069	15.069 (1.593)	182	113556			65.75- 125.75	95.67
15.069	15.069 (1.593)	145	41550			5.23- 65.23	35.00

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p051906.d
Lab Smp Id: ICAL Level 5
Analysis Type: VOA
Quant Type: ISTD
Operator: LD
Method File: /chem/msdp.i/19MAY21.b/p21q0519a.m
Misc Info: 5.0ppbv (5.0ppbv)

Calibration Date: 19-MAY-2021
Calibration Time: 15:55
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	158810	95286	222334	153560	-3.31
108 1,4-Difluorobenze	597103	358262	835944	614215	2.87
153 Chlorobenzene-d5	587747	352648	822846	619157	5.34

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.78	5.45	6.11	5.79	0.13
108 1,4-Difluorobenze	6.66	6.33	6.99	6.67	0.11
153 Chlorobenzene-d5	9.46	9.13	9.79	9.46	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msdp.i/19MAY21.b/p051906.d

Date : 19-MAY-2021 15:00

Client ID:

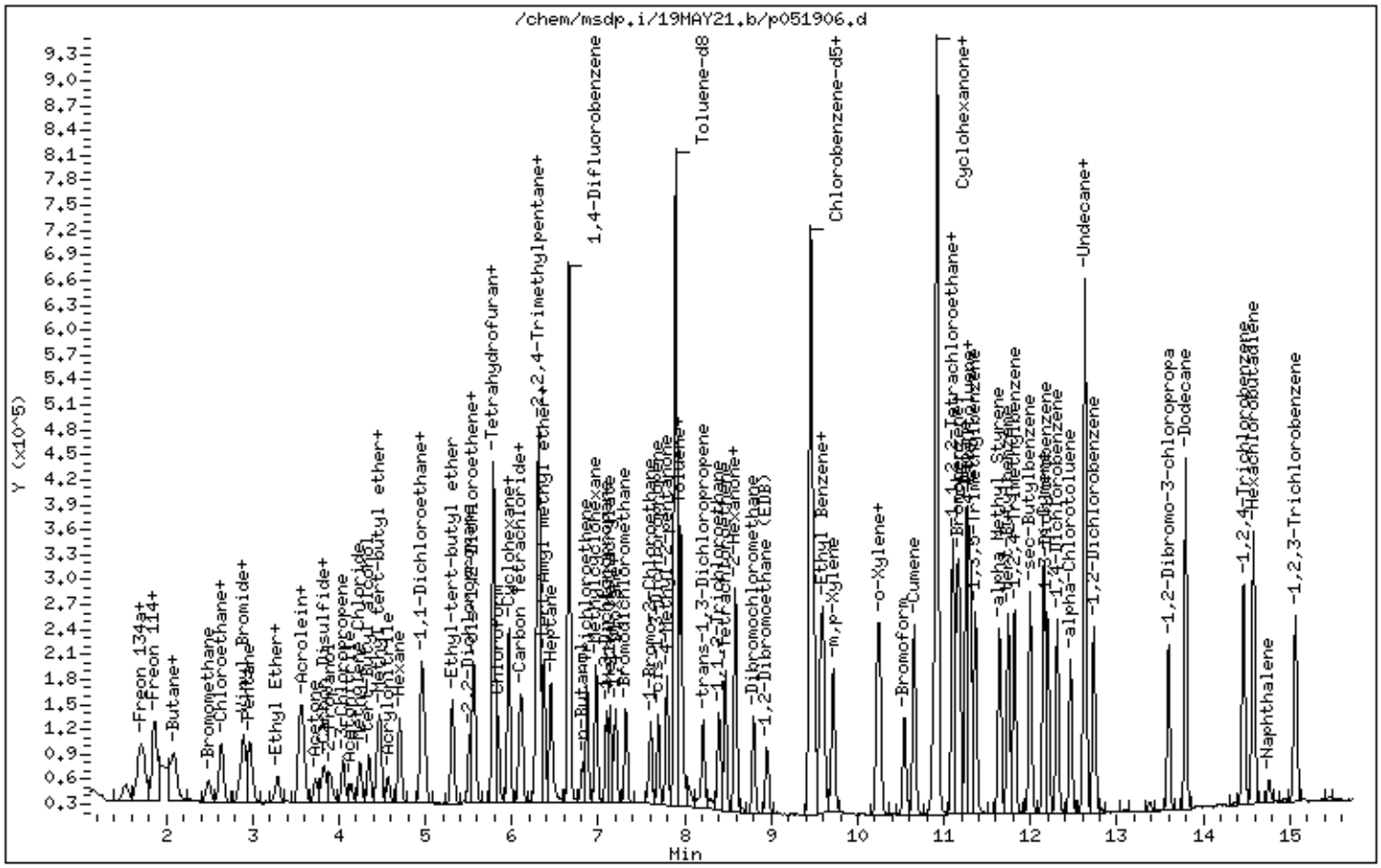
Instrument: msdp.i

Sample Info: 200mL 3018-2045

Operator: LD

Column phase: RTX-624

Column diameter: 0.25



US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/19MAY21.b/p051917.d
Lab Smp Id: ICAL Level 5
Inj Date : 19-MAY-2021 20:43
Operator : gh Inst ID: msdp.i
Smp Info : 200mL 3018-1928
Misc Info : 5.0ppbv (5.0ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/19MAY21.b/p21q0519a.m
Meth Date : 20-May-2021 09:50 lk8g Quant Type: ISTD
Cal Date : 19-MAY-2021 20:43 Cal File: p051917.d
Als bottle: 2 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT20spICAL.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 90 Bromochloromethane					CAS #: 74-97-5		
5.785	5.778 (1.000)	130	153596	25.0000		80.00- 120.00	100.00
5.785	5.778 (1.000)	128	120099			48.23- 108.23	78.19
5.785	5.778 (1.000)	49	277119			150.57- 210.57	180.42
* 108 1,4-Difluorobenzene					CAS #: 540-36-3		
6.659	6.659 (1.000)	114	607535	25.0000		80.00- 120.00	100.00
6.659	6.659 (1.000)	88	95316			0.00- 45.71	15.69
* 153 Chlorobenzene-d5					CAS #: 3114-55-4		
9.460	9.460 (1.000)	117	599728	25.0000		80.00- 120.00	100.00
9.460	9.460 (1.000)	82	327307			23.78- 83.78	54.58
3 Freon 143a					CAS #: 420-46-2		
1.591	1.590 (0.275)	65	8816	5.00000	2.827	80.00- 120.00	100.00
1.605	1.590 (0.277)	69	21877			243.50- 303.50	248.15
1.605	1.590 (0.277)	64	2504			0.00- 54.06	28.40
6 Propane					CAS #: 74-98-6		
1.688	1.674 (0.292)	43	14059	5.00000	4.918	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
6 Propane (continued)							
1.688	1.674 (0.292)	39	9149			34.98- 94.98	65.08
1.688	1.674 (0.292)	41	8274			25.22- 85.22	58.85
13 Freon 142b					CAS #: 75-68-3		
1.898	1.884 (0.328)	65	77411	5.00000	4.903	80.00- 120.00	100.00
1.898	1.884 (0.328)	45	23408			0.00- 59.77	30.24
36 1-Pentene					CAS #: 109-67-1		
2.906	2.906 (0.502)	55	50218	5.00000	4.904	80.00- 120.00	100.00(a)
2.906	2.906 (0.502)	42	65836			105.17- 165.17	131.10
40 Freon 123a					CAS #: 354-23-4		
3.393	3.385 (0.586)	117	52612	5.00000	5.296	80.00- 120.00	100.00(a)
3.386	3.378 (0.585)	67	63816			104.69- 164.69	121.30
41 Freon 123					CAS #: 306-83-2		
3.486	3.479 (0.603)	83	68341	5.00000	4.967	80.00- 120.00	100.00
3.486	3.479 (0.603)	133	15880			0.00- 50.87	23.24
3.486	3.479 (0.603)	85	48933			36.08- 96.08	71.60
55 Cyclopentene					CAS #: 142-29-0		
4.073	4.073 (0.704)	67	78856	5.00000	5.332	80.00- 120.00	100.00
4.073	4.073 (0.704)	68	30336			6.76- 66.76	38.47
4.073	4.073 (0.704)	53	22763			0.00- 57.54	28.87
56 Methyl Acetate					CAS #: 79-20-9		
4.088	4.073 (0.707)	43	91822	5.00000	5.308	80.00- 120.00	100.00
4.088	4.073 (0.707)	74	13069			0.00- 44.13	14.23
74 Chloroprene					CAS #: 126-99-8		
5.019	5.019 (0.868)	53	75220	5.00000	5.500	80.00- 120.00	100.00
5.019	5.019 (0.868)	88	29151			9.21- 69.21	38.75
5.019	5.019 (0.868)	50	18461			0.00- 54.25	24.54
75 1-Propanol					CAS #: 71-23-8		
5.090	5.083 (0.880)	59	10283	5.00000	4.824	80.00- 120.00	100.00
5.090	5.083 (0.880)	42	8877			63.23- 123.23	86.33
5.090	5.083 (0.880)	41	5590			24.74- 84.74	54.36
88 Methyl Acrylate					CAS #: 96-33-3		
5.628	5.620 (0.973)	55	95932	5.00000	5.264	80.00- 120.00	100.00
5.628	5.620 (0.973)	85	11014			0.00- 41.28	11.48
5.628	5.620 (0.973)	58	7843			0.00- 38.22	8.18
103 Isobutanol					CAS #: 78-83-1		
6.244	6.244 (1.079)	39	10867	5.00000	4.807	80.00- 120.00	100.00(a)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
103 Isobutanol (continued)							
6.244	6.244 (1.079)	43	49327			448.18- 508.18	453.92
6.244	6.244 (1.079)	41	33984			299.99- 359.99	312.73
113 Ethyl acrylate					CAS #: 140-88-5		
6.946	6.938 (0.734)	99	7111	5.00000	4.971	80.00- 120.00	100.00
6.938	6.938 (0.733)	45	13011			149.95- 209.95	182.97
6.938	6.938 (0.733)	55	133152			1849.07-1909.07	1872.48
115 2-Pentanone					CAS #: 107-87-9		
7.032	7.031 (0.743)	43	159681	5.00000	5.193	80.00- 120.00	100.00
7.032	7.031 (0.743)	58	12244			0.00- 37.44	7.67
7.032	7.031 (0.743)	86	19990			0.00- 42.78	12.52
145 Butyl Acetate					CAS #: 123-86-4		
8.665	8.665 (1.301)	56	77293	5.00000	4.991	80.00- 120.00	100.00(a)
8.665	8.665 (1.301)	73	23632			0.00- 59.10	30.57
8.665	8.657 (1.301)	43	188441			215.30- 275.30	243.80
157 1,1,1,2-Tetrachloroethane					CAS #: 630-20-6		
9.596	9.596 (1.014)	131	63705	5.00000	4.810	80.00- 120.00	100.00
9.460	9.460 (1.000)	117	599728			57.42- 117.42	941.41
9.596	9.596 (1.014)	95	23461			5.70- 65.70	36.83
166 2-Heptanone					CAS #: 110-43-0		
10.362	10.362 (1.791)	58	116686	5.00000	5.161	80.00- 120.00	100.00
10.362	10.362 (1.791)	43	191827			136.03- 196.03	164.40
172 D-Limonene					CAS #: 5989-27-5		
12.089	12.089 (1.278)	68	41323	5.00000	3.808	80.00- 120.00	100.00
12.089	12.089 (1.278)	93	28530			39.41- 99.41	69.04
186 4-Chlorotoluene					CAS #: 106-43-4		
11.444	11.444 (1.210)	126	63397	5.00000	5.120	80.00- 120.00	100.00
11.444	11.444 (1.210)	91	187470			295.02- 355.02	295.71
11.444	11.444 (1.210)	63	25896			11.82- 71.82	40.85
197 1,2,3-Trimethylbenzene					CAS #: 526-73-8		
12.318	12.318 (1.302)	120	88020	5.00000	4.917	80.00- 120.00	100.00(a)
12.318	12.318 (1.302)	105	198476			192.40- 252.40	225.49
12.318	12.318 (1.302)	77	22835			0.00- 54.69	25.94
205 Hexachloroethane					CAS #: 67-72-1		
12.970	12.970 (1.371)	201	21359	5.00000	3.532	80.00- 120.00	100.00
12.970	12.970 (1.371)	117	28923			102.99- 162.99	135.41

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
208 1,3,5-Trichlorobenzene					CAS #: 108-70-3		
13.758	13.758 (1.454)	180	128059	5.00000	5.049	80.00- 120.00	100.00
13.758	13.758 (1.454)	182	121863			65.24- 125.24	95.16
210 alpha-Pinene					CAS #: 80-56-8		
10.599	10.599 (1.120)	93	114218	5.00000	4.871	80.00- 120.00	100.00
10.599	10.599 (1.120)	77	34098			0.00- 58.21	29.85
214 beta-Pinene					CAS #: 127-91-3		
11.423	11.422 (1.207)	93	58870	5.00000	4.306	80.00- 120.00	100.00
11.444	11.444 (1.210)	91	187470			153.57- 213.57	318.45

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p051917.d
Lab Smp Id: ICAL Level 5
Analysis Type: VOA
Quant Type: ISTD
Operator: gh
Method File: /chem/msdp.i/19MAY21.b/p21q0519a.m
Misc Info: 5.0ppbv (5.0ppbv)

Calibration Date: 19-MAY-2021
Calibration Time: 15:55
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	158810	95286	222334	153596	-3.28
108 1,4-Difluorobenze	597103	358262	835944	607535	1.75
153 Chlorobenzene-d5	587747	352648	822846	599728	2.04

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.78	5.45	6.11	5.79	0.12
108 1,4-Difluorobenze	6.66	6.33	6.99	6.66	-0.00
153 Chlorobenzene-d5	9.46	9.13	9.79	9.46	-0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msdp.i/19MAY21.b/p051917.d

Date : 19-MAY-2021 20:43

Client ID:

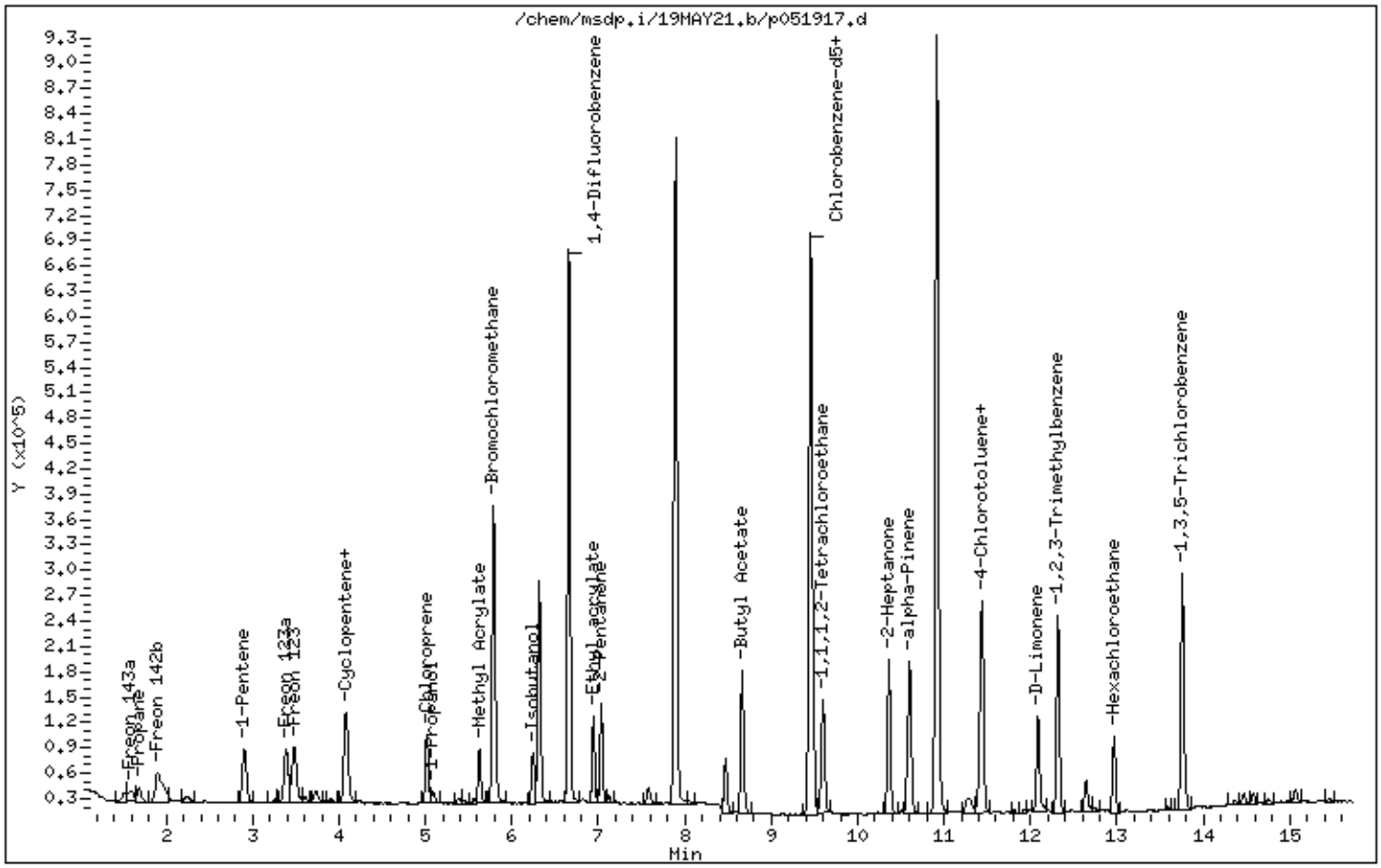
Instrument: msdp.i

Sample Info: 200mL 3018-1928

Operator: gh

Column phase: RTX-624

Column diameter: 0.25



US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/19MAY21.b/p051907.d
Lab Smp Id: ICAL Level 6
Inj Date : 19-MAY-2021 15:27
Operator : LD Inst ID: msdp.i
Smp Info : 20mL 3018-2034
Misc Info : 20ppbv (200ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/19MAY21.b/p21q0519a.m
Meth Date : 20-May-2021 09:50 lk8g Quant Type: ISTD
Cal Date : 19-MAY-2021 15:27 Cal File: p051907.d
Als bottle: 13 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT20ICAL.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
4 Freon 134a					CAS #: 811-97-2		
1.633	1.633 (0.283)	83	93022	20.0000	18.478	80.00- 120.00	100.00
1.633	1.633 (0.283)	69	85552			59.44- 119.44	91.97
1.744	1.745 (0.302)	51	410469			419.06- 479.06	441.26
5 Propylene					CAS #: 115-07-1		
1.675	1.675 (0.290)	41	126668	20.0000	17.269	80.00- 120.00	100.00
1.675	1.675 (0.290)	42	83011			35.28- 95.28	65.53
1.675	1.675 (0.290)	39	87777			38.35- 98.35	69.30
7 1,1-Difluoroethane					CAS #: 75-37-6		
1.688	1.703 (0.292)	65	66510	20.0000	17.899	80.00- 120.00	100.00
1.744	1.745 (0.302)	51	410469			597.63- 657.63	617.15
1.688	1.703 (0.292)	47	42224			33.72- 93.72	63.49
8 Freon 12					CAS #: 75-71-8		
1.716	1.717 (0.297)	85	256819	20.0000	18.385	80.00- 120.00	100.00
1.716	1.717 (0.297)	87	83094			2.37- 62.37	32.36
9 Chlorodifluoromethane					CAS #: 75-45-6		
1.744	1.745 (0.302)	67	27136	20.0000	19.522	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
9 Chlorodifluoromethane (continued)							
1.744	1.745 (0.302)	51	410469			1501.01-1561.01	1512.64
10 Freon 114					CAS #: 76-14-2		
1.842	1.856 (0.319)	135	257544	20.0000	17.884	80.00- 120.00	100.00
1.842	1.856 (0.319)	137	84530			2.30- 62.30	32.82
12 Isobutane					CAS #: 75-28-5		
1.856	1.870 (0.321)	43	276539	20.0000	16.916	80.00- 120.00	100.00
1.856	1.870 (0.321)	42	89198			2.44- 62.44	32.26
1.856	1.856 (0.321)	58	9258			0.00- 33.36	3.35
15 Chloromethane					CAS #: 74-87-3		
1.940	1.940 (0.336)	50	175425	20.0000	19.636	80.00- 120.00	100.00
1.940	1.940 (0.336)	52	48487			0.00- 56.26	27.64
18 Butane					CAS #: 106-97-8		
2.025	2.025 (0.350)	58	26908	20.0000	14.306	80.00- 120.00	100.00
2.025	2.025 (0.350)	43	210189			823.29- 883.29	781.14
19 Vinyl Chloride					CAS #: 75-01-4		
2.068	2.068 (0.358)	62	167898	20.0000	16.491	80.00- 120.00	100.00
2.068	2.068 (0.358)	64	51574			0.00- 59.69	30.72
20 1,3-Butadiene					CAS #: 106-99-0		
2.089	2.089 (0.362)	54	173027	20.0000	22.047	80.00- 120.00	100.00
2.089	2.089 (0.362)	39	131220			52.37- 112.37	75.84
24 Bromomethane					CAS #: 74-83-9		
2.476	2.483 (0.428)	94	109467	20.0000	16.296	80.00- 120.00	100.00
2.476	2.483 (0.428)	96	101049			64.07- 124.07	92.31
30 Chloroethane					CAS #: 75-00-3		
2.605	2.612 (0.451)	64	60984	20.0000	17.056	80.00- 120.00	100.00
2.605	2.612 (0.451)	66	18278			0.04- 60.04	29.97
2.605	2.612 (0.451)	49	19753			4.54- 64.54	32.39
31 Isopentane					CAS #: 78-78-4		
2.634	2.634 (0.456)	43	221068	20.0000	20.084	80.00- 120.00	100.00
2.634	2.634 (0.456)	57	143195			34.12- 94.12	64.77
32 Vinyl Bromide					CAS #: 593-60-2		
2.834	2.841 (0.490)	106	103992	20.0000	17.605	80.00- 120.00	100.00
2.834	2.841 (0.490)	108	100338			69.27- 129.27	96.49
33 Freon 11					CAS #: 75-69-4		
2.884	2.884 (0.499)	101	289208	20.0000	19.049	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
33 Freon 11 (continued)							
2.884	2.884 (0.499)	103	188691			34.72- 94.72	65.24
34 Dichlorofluoromethane					CAS #: 75-43-4		
2.899	2.899 (0.502)	67	224049	20.0000	17.280	80.00- 120.00	100.00
2.899	2.899 (0.502)	69	67915			0.84- 60.84	30.31
35 Pentane					CAS #: 109-66-0		
2.970	2.970 (0.514)	43	340845	20.0000	18.944	80.00- 120.00	100.00
2.970	2.970 (0.514)	57	51294			0.00- 44.98	15.05
2.970	2.970 (0.514)	72	24256			0.00- 37.39	7.12
38 Ethyl Ether					CAS #: 60-29-7		
3.285	3.285 (0.569)	74	55504	20.0000	18.719	80.00- 120.00	100.00
3.285	3.285 (0.569)	59	102072			163.46- 223.46	183.90
3.278	3.285 (0.567)	45	151025			250.40- 310.40	272.10
39 Ethanol					CAS #: 64-17-5		
3.235	3.242 (0.560)	46	28012	20.0000	17.557	80.00- 120.00	100.00
3.278	3.242 (0.567)	45	150850			511.19- 571.19	538.52
42 Acrolein					CAS #: 107-02-8		
3.522	3.529 (0.609)	55	48671	20.0000	17.849	80.00- 120.00	100.00
3.522	3.529 (0.609)	56	67406			111.10- 171.10	138.49
43 Freon 113					CAS #: 76-13-1		
3.550	3.550 (0.614)	151	234506	20.0000	20.574	80.00- 120.00	100.00
3.550	3.550 (0.614)	153	150010			33.56- 93.56	63.97
3.550	3.550 (0.614)	101	277635			89.21- 149.21	118.39
44 1,1-Dichloroethene					CAS #: 75-35-4		
3.579	3.579 (0.619)	96	117179	20.0000	17.797	80.00- 120.00	100.00
3.579	3.579 (0.619)	98	73665			34.02- 94.02	62.87
3.579	3.579 (0.619)	61	234280			168.77- 228.77	199.93
47 Acetone					CAS #: 67-64-1		
3.708	3.708 (0.642)	58	72065	20.0000	17.340	80.00- 120.00	100.00
3.708	3.708 (0.642)	43	241838			302.95- 362.95	335.58
48 Carbon Disulfide					CAS #: 75-15-0		
3.815	3.823 (0.660)	76	317436	20.0000	17.928	80.00- 120.00	100.00
49 Iodomethane					CAS #: 74-88-4		
3.787	3.794 (0.655)	142	245125	20.0000	23.837	80.00- 120.00	100.00
3.787	3.794 (0.655)	127	102171			12.22- 72.22	41.68

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
52 2-Propanol					CAS #: 67-63-0		
3.880	3.887 (0.671)	45	307798	20.0000	18.411	80.00- 120.00	100.00
3.880	3.887 (0.671)	43	51379			0.00- 47.19	16.69
54 3-Chloropropene					CAS #: 107-05-1		
4.045	4.052 (0.700)	76	51511	20.0000	17.182	80.00- 120.00	100.00
4.045	4.052 (0.700)	41	225722			396.19- 456.19	438.20
57 Acetonitrile					CAS #: 75-05-8		
4.123	4.123 (0.714)	41	132955	20.0000	17.513	80.00- 120.00	100.00
4.123	4.123 (0.714)	40	69875			20.95- 80.95	52.56
4.123	4.123 (0.714)	38	15334			0.00- 41.17	11.53
59 Methylene Chloride					CAS #: 75-09-2		
4.231	4.238 (0.732)	49	188872	20.0000	17.656	80.00- 120.00	100.00
4.231	4.238 (0.732)	84	97783			22.03- 82.03	51.77
4.231	4.238 (0.732)	51	56590			0.18- 60.18	29.96
62 tert-Butyl alcohol					CAS #: 75-65-0		
4.338	4.338 (0.751)	59	376326	20.0000	18.886	80.00- 120.00	100.00
4.338	4.338 (0.751)	41	79824			0.00- 51.11	21.21
4.338	4.338 (0.751)	57	39827			0.00- 40.49	10.58
63 Methyl tert-butyl ether					CAS #: 1634-04-4		
4.446	4.446 (0.769)	73	393778	20.0000	19.813	80.00- 120.00	100.00
4.446	4.446 (0.769)	57	131571			3.10- 63.10	33.41
4.446	4.446 (0.769)	41	127804			1.28- 61.28	32.46
64 trans-1,2-Dichloroethene					CAS #: 156-60-5		
4.474	4.482 (0.774)	98	79611	20.0000	17.941	80.00- 120.00	100.00
4.474	4.482 (0.774)	61	222503			255.84- 315.84	279.49
4.474	4.482 (0.774)	96	121969			127.59- 187.59	153.21
66 Acrylonitrile					CAS #: 107-13-1		
4.553	4.560 (0.788)	52	108453	20.0000	17.080	80.00- 120.00	100.00
4.553	4.560 (0.788)	53	125300			88.05- 148.05	115.53
67 Hexane					CAS #: 110-54-3		
4.696	4.697 (0.813)	57	289038	20.0000	18.610	80.00- 120.00	100.00
4.696	4.697 (0.813)	43	192159			37.52- 97.52	66.48
4.696	4.697 (0.813)	86	34504			0.00- 41.48	11.94
71 1,1-Dichloroethane					CAS #: 75-34-3		
4.961	4.962 (0.859)	63	244047	20.0000	17.840	80.00- 120.00	100.00
4.961	4.962 (0.859)	65	72133			0.00- 59.70	29.56

				AMOUNTS				
					CAL-AMT	ON-COL		
	RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
	72 Isopropyl ether						CAS #: 108-20-3	
	4.947	4.954 (0.856)	45	733750	20.0000	19.999	80.00- 120.00	100.00
	4.954	4.954 (0.857)	87	130937			0.00- 48.18	17.84
	4.947	4.954 (0.856)	59	74206			0.00- 40.15	10.11
	73 Vinyl Acetate						CAS #: 108-05-4	
	4.997	4.997 (0.865)	86	29493	20.0000	17.415	80.00- 120.00	100.00
	4.990	4.997 (0.864)	43	540307			2432.48-2492.48	1831.98
	79 Ethyl-tert-butyl ether						CAS #: 637-92-3	
	5.305	5.305 (0.918)	59	633028	20.0000	19.878	80.00- 120.00	100.00
	5.305	5.305 (0.918)	87	196731			1.00- 61.00	31.08
	5.305	5.305 (0.918)	41	121691			0.00- 48.73	19.22
	84 2,2-Dichloropropane						CAS #: 594-20-7	
	5.506	5.506 (0.953)	77	247387	20.0000	20.676	80.00- 120.00	100.00
	5.506	5.506 (0.953)	79	79013			2.28- 62.28	31.94
	5.506	5.506 (0.953)	97	59214			0.00- 53.93	23.94
	85 cis-1,2-Dichloroethene						CAS #: 156-59-2	
	5.542	5.549 (0.959)	98	79311	20.0000	17.700	80.00- 120.00	100.00
	5.542	5.549 (0.959)	96	126353			125.75- 185.75	159.31
	5.542	5.549 (0.959)	61	301739			332.40- 392.40	380.45
	86 2-Butanone						CAS #: 78-93-3	
	5.556	5.556 (0.962)	72	60163	20.0000	16.887	80.00- 120.00	100.00
	5.563	5.556 (0.963)	43	755298			1214.50-1274.50	1255.42
	5.556	5.556 (0.962)	57	27140			14.68- 74.68	45.11
	87 Ethyl Acetate						CAS #: 141-78-6	
	5.570	5.570 (0.964)	45	61995	20.0000	17.497	80.00- 120.00	100.00
	5.542	5.549 (0.959)	61	301739			452.04- 512.04	486.72
	5.570	5.570 (0.964)	70	32560			22.77- 82.77	52.52
	89 Tetrahydrofuran						CAS #: 109-99-9	
	5.771	5.771 (0.999)	42	206034	20.0000	17.009	80.00- 120.00	100.00
	5.771	5.771 (0.999)	71	54220			0.00- 55.82	26.32
	5.771	5.771 (0.999)	72	59914			0.00- 57.59	29.08
*	90 Bromochloromethane						CAS #: 74-97-5	
	5.778	5.778 (1.000)	130	161884	25.0000		80.00- 120.00	100.00
	5.778	5.778 (1.000)	128	125674			48.23- 108.23	77.63
	5.771	5.778 (1.000)	49	290833			150.57- 210.57	179.66
	92 Chloroform						CAS #: 67-66-3	
	5.835	5.835 (1.010)	83	241783	20.0000	17.626	80.00- 120.00	100.00

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
92 Chloroform (continued)							
5.835	5.835 (1.010)	85	158829			34.70- 94.70	65.69
94 Cyclohexane					CAS #: 110-82-7		
5.957	5.957 (1.031)	84	203644	20.0000	20.607	80.00- 120.00	100.00
5.957	5.957 (1.031)	56	346268			142.57- 202.57	170.04
5.957	5.957 (1.031)	41	187080			62.09- 122.09	91.87
96 1,1,1-Trichloroethane					CAS #: 71-55-6		
5.964	5.972 (1.032)	97	306146	20.0000	19.529	80.00- 120.00	100.00
5.964	5.972 (1.032)	99	199684			34.02- 94.02	65.23
97 Carbon Tetrachloride					CAS #: 56-23-5		
6.086	6.086 (1.053)	119	305164	20.0000	20.683	80.00- 120.00	100.00
6.086	6.086 (1.053)	117	305319			70.64- 130.64	100.05
99 1,1-Dichloropropene					CAS #: 563-58-6		
6.115	6.115 (0.918)	110	71487	20.0000	17.887	80.00- 120.00	100.00
6.115	6.115 (0.918)	75	180986			226.85- 286.85	253.17
101 2,2,4-Trimethylpentane					CAS #: 540-84-1		
6.279	6.280 (1.087)	57	1110205	20.0000	20.193	80.00- 120.00	100.00
6.279	6.280 (1.087)	56	359061			2.24- 62.24	32.34
6.279	6.280 (1.087)	41	278205			0.00- 54.39	25.06
102 Benzene					CAS #: 71-43-2		
6.301	6.301 (0.946)	78	352350	20.0000	18.258	80.00- 120.00	100.00
6.301	6.301 (0.946)	77	82919			0.00- 52.90	23.53
$ 104 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
6.308	6.308 (1.092)	65	214356	25.0000	24.596	80.00- 120.00	100.00
6.308	6.308 (1.092)	67	113737			27.21- 87.21	53.06
105 tert-Amyl methyl ether					CAS #: 994-05-8		
6.358	6.358 (0.955)	87	111853	20.0000	20.020	80.00- 120.00	100.00
6.358	6.358 (0.955)	73	458075			372.79- 432.79	409.53
6.358	6.358 (0.955)	55	161464			112.09- 172.09	144.35
106 1,2-Dichloroethane					CAS #: 107-06-2		
6.380	6.380 (0.958)	62	181236	20.0000	17.798	80.00- 120.00	100.00
6.380	6.380 (0.958)	64	57046			0.79- 60.79	31.48
107 Heptane					CAS #: 142-82-5		
6.444	6.444 (0.968)	71	153106	20.0000	20.067	80.00- 120.00	100.00
6.444	6.444 (0.968)	43	404624			226.53- 286.53	264.28
6.444	6.444 (0.968)	57	205765			100.85- 160.85	134.39

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
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* 108 1,4-Difluorobenzene						CAS #: 540-36-3	
6.659	6.659 (1.000)	114	591321	25.0000		80.00- 120.00	100.00
6.659	6.659 (1.000)	88	94057			0.00- 45.71	15.91
110 n-Butanol						CAS #: 71-36-3	
6.810	6.810 (1.023)	56	132950	20.0000	19.082	80.00- 120.00	100.00
6.810	6.810 (1.023)	41	94545			40.99- 100.99	71.11
6.810	6.810 (1.023)	43	78634			27.38- 87.38	59.15
111 Trichloroethene						CAS #: 79-01-6	
6.867	6.867 (1.031)	95	167926	20.0000	18.042	80.00- 120.00	100.00
6.867	6.867 (1.031)	130	180875			76.29- 136.29	107.71
6.867	6.867 (1.031)	97	109619			33.63- 93.63	65.28
114 1,2-Dichloropropane						CAS #: 78-87-5	
7.089	7.089 (1.065)	63	184802	20.0000	18.644	80.00- 120.00	100.00
7.089	7.089 (1.065)	62	133840			41.07- 101.07	72.42
7.089	7.089 (1.065)	41	101498			22.53- 82.53	54.92
116 Methyl Methacrylate						CAS #: 80-62-6	
7.132	7.132 (0.754)	69	150281	20.0000	19.013	80.00- 120.00	100.00
7.132	7.132 (0.754)	41	320687			179.84- 239.84	213.39
7.132	7.139 (0.754)	100	60103			9.59- 69.59	39.99
117 1,4-Dioxane						CAS #: 123-91-1	
7.175	7.175 (1.077)	88	100090	20.0000	18.671	80.00- 120.00	100.00
7.175	7.175 (1.077)	58	98658			68.28- 128.28	98.57
7.175	7.175 (1.077)	57	32744			2.68- 62.68	32.71
118 Dibromomethane						CAS #: 74-95-3	
7.204	7.204 (0.761)	174	158665	20.0000	18.457	80.00- 120.00	100.00
7.204	7.204 (0.761)	93	142936			60.09- 120.09	90.09
7.204	7.204 (0.761)	95	122464			48.38- 108.38	77.18
122 Bromodichloromethane						CAS #: 75-27-4	
7.318	7.318 (1.099)	83	275648	20.0000	18.925	80.00- 120.00	100.00
7.318	7.318 (1.099)	85	177537			35.24- 95.24	64.41
126 cis-1,3-Dichloropropene						CAS #: 10061-01-5	
7.691	7.691 (1.155)	75	230619	20.0000	18.894	80.00- 120.00	100.00
7.691	7.691 (1.155)	77	72627			2.42- 62.42	31.49
7.691	7.691 (1.155)	39	154077			37.16- 97.16	66.81
127 Methylcyclohexane						CAS #: 108-87-2	
6.974	6.974 (1.047)	83	280885	20.0000	20.418	80.00- 120.00	100.00
6.974	6.974 (1.047)	98	132474			15.78- 75.78	47.16

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
127 Methylcyclohexane (continued)							
6.974	6.974 (1.047)	55	326597			84.64- 144.64	116.27
131 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.791	7.791 (1.170)	58	198797	20.0000	19.794	80.00- 120.00	100.00
7.791	7.791 (1.170)	43	542659			242.35- 302.35	272.97
7.791	7.791 (1.170)	85	66078			3.24- 63.24	33.24
$ 134 Toluene-d8					CAS #: 2037-26-5		
7.891	7.891 (1.185)	98	636242	25.0000	24.785	80.00- 120.00	100.00
7.891	7.891 (1.185)	70	65527			0.00- 40.44	10.30
7.891	7.891 (1.185)	100	416442			34.95- 94.95	65.45
137 Toluene					CAS #: 108-88-3		
7.948	7.949 (1.194)	91	514167	20.0000	19.066	80.00- 120.00	100.00
7.948	7.949 (1.194)	92	307832			28.38- 88.38	59.87
136 Octane					CAS #: 111-65-9		
7.941	7.949 (1.193)	57	236470	20.0000	20.785	80.00- 120.00	100.00
7.941	7.949 (1.193)	85	199342			56.00- 116.00	84.30
7.941	7.949 (1.193)	43	614834			228.66- 288.66	260.01
139 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
8.214	8.214 (0.868)	75	217123	20.0000	19.138	80.00- 120.00	100.00
8.214	8.214 (0.868)	77	68252			1.24- 61.24	31.43
8.214	8.214 (0.868)	39	141891			34.11- 94.11	65.35
141 1,1,2-Trichloroethane					CAS #: 79-00-5		
8.400	8.400 (0.888)	97	176754	20.0000	19.263	80.00- 120.00	100.00
8.400	8.400 (0.888)	99	111333			31.96- 91.96	62.99
8.400	8.400 (0.888)	83	150175			52.93- 112.93	84.96
142 Tetrachloroethene					CAS #: 127-18-4		
8.464	8.464 (0.895)	166	257592	20.0000	19.183	80.00- 120.00	100.00
8.464	8.464 (0.895)	129	201058			47.84- 107.84	78.05
8.464	8.464 (0.895)	131	191367			45.29- 105.29	74.29
143 2-Hexanone					CAS #: 591-78-6		
8.586	8.586 (0.908)	58	268908	20.0000	19.939	80.00- 120.00	100.00
8.586	8.586 (0.908)	43	517945			162.87- 222.87	192.61
8.586	8.586 (0.908)	100	41484			0.00- 45.94	15.43
144 1,3-Dichloropropane					CAS #: 142-28-9		
8.579	8.579 (1.288)	76	246257	20.0000	19.204	80.00- 120.00	100.00
8.579	8.579 (1.288)	41	314850			94.99- 154.99	127.85
8.579	8.579 (1.288)	78	78397			2.05- 62.05	31.84

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
146 Dibromochloromethane						CAS #: 124-48-1	
8.801	8.801 (0.930)	129	337715	20.0000	19.240	80.00- 120.00	100.00
8.801	8.801 (0.930)	127	263594			47.45- 107.45	78.05
148 1,2-Dibromoethane (EDB)						CAS #: 106-93-4	
8.951	8.951 (0.946)	107	280035	20.0000	18.542	80.00- 120.00	100.00
8.951	8.951 (0.946)	109	267724			64.21- 124.21	95.60
151 1-Bromo-2-Chloroethane						CAS #: 107-04-0	
7.605	7.605 (1.142)	63	333684	20.0000	18.417	80.00- 120.00	100.00
7.605	7.605 (1.142)	65	97824			0.00- 59.64	29.32
7.605	7.605 (1.142)	144	32120			0.00- 39.63	9.63
* 153 Chlorobenzene-d5						CAS #: 3114-55-4	
9.460	9.460 (1.000)	117	579226	25.0000		80.00- 120.00	100.00
9.453	9.460 (1.000)	82	311215			23.78- 83.78	53.73
154 Chlorobenzene						CAS #: 108-90-7	
9.496	9.496 (1.004)	112	441684	20.0000	19.332	80.00- 120.00	100.00
9.496	9.496 (1.004)	114	142490			1.74- 61.74	32.26
9.496	9.496 (1.004)	77	248503			25.04- 85.04	56.26
155 Ethyl Benzene						CAS #: 100-41-4	
9.567	9.567 (1.011)	106	238564	20.0000	19.809	80.00- 120.00	100.00
9.567	9.567 (1.011)	91	733130			273.74- 333.74	307.31
156 Nonane						CAS #: 111-84-2	
9.596	9.596 (1.014)	43	660026	20.0000	21.119	80.00- 120.00	100.00
9.596	9.603 (1.014)	57	552781			54.16- 114.16	83.75
9.596	9.603 (1.014)	85	158629			0.00- 53.90	24.03
158 m,p-Xylene						CAS #: 108-38-3	
9.718	9.718 (1.027)	106	298628	20.0000	19.892	80.00- 120.00	100.00
9.718	9.718 (1.027)	91	589189			163.73- 223.73	197.30
164 o-Xylene						CAS #: 95-47-6	
10.226	10.226 (1.081)	106	296697	20.0000	20.402	80.00- 120.00	100.00
10.226	10.226 (1.081)	91	604874			177.45- 237.45	203.87
165 Styrene						CAS #: 100-42-5	
10.255	10.255 (1.084)	104	488029	20.0000	19.783	80.00- 120.00	100.00
10.255	10.255 (1.084)	78	228738			17.88- 77.88	46.87
167 Bromoform						CAS #: 75-25-2	
10.541	10.542 (1.114)	173	342784	20.0000	19.970	80.00- 120.00	100.00
10.541	10.542 (1.114)	171	175679			21.25- 81.25	51.25

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE		RATIO
==	====== ========	====	========	=======	=======	==========		=====
168 Cumene					CAS #: 98-82-8			
10.649	10.649 (1.126)	105	931561	20.0000	20.442	80.00- 120.00		100.00
10.649	10.649 (1.126)	120	266395			0.00- 58.52		28.60
10.649	10.649 (1.126)	51	122943			0.00- 43.00		13.20
169 Cyclohexanone					CAS #: 108-94-1			
10.871	10.871 (1.149)	55	329076	20.0000	19.988	80.00- 120.00		100.00
10.871	10.871 (1.149)	98	105887			1.94- 61.94		32.18
10.871	10.871 (1.149)	42	225892			37.89- 97.89		68.64
$ 170 4-Bromofluorobenzene					CAS #: 460-00-4			
10.921	10.921 (1.154)	174	366979	25.0000	24.808	80.00- 120.00		100.00
10.914	10.921 (1.154)	95	468117			95.92- 155.92		127.56
10.921	10.921 (1.154)	176	351685			66.89- 126.89		95.83
175 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5			
11.107	11.100 (1.174)	83	448177	20.0000	20.205	80.00- 120.00		100.00
11.107	11.100 (1.174)	85	290309			35.20- 95.20		64.78
177 Bromobenzene					CAS #: 108-86-1			
11.107	11.107 (1.174)	156	273442	20.0000	19.953	80.00- 120.00		100.00
11.107	11.107 (1.174)	158	268738			67.21- 127.21		98.28
11.179	11.179 (1.182)	77	168602			29.02- 89.02		61.66
178 Propylbenzene					CAS #: 103-65-1			
11.150	11.150 (1.179)	120	275295	20.0000	20.363	80.00- 120.00		100.00
11.150	11.150 (1.179)	91	1090818			366.49- 426.49		396.24
11.150	11.150 (1.179)	105	41933			0.00- 44.85		15.23
179 1,2,3-Trichloropropane					CAS #: 96-18-4			
11.179	11.179 (1.182)	110	139458	20.0000	19.807	80.00- 120.00		100.00
11.179	11.179 (1.182)	75	427261			280.55- 340.55		306.37
11.100	11.100 (1.173)	61	62807			15.49- 75.49		45.04
181 trans-1,4-Dichloro-2-butene					CAS #: 110-57-6			
11.179	11.179 (1.182)	53	88946	20.0000	19.304	80.00- 120.00		100.00
11.172	11.179 (1.181)	89	71489			49.11- 109.11		80.37
11.179	11.179 (1.182)	75	427261			426.44- 486.44		480.36
182 Decane					CAS #: 124-18-5			
11.251	11.251 (1.189)	57	746366	20.0000	20.338	80.00- 120.00		100.00
11.251	11.251 (1.189)	71	204118			0.00- 57.66		27.35
11.258	11.258 (1.190)	142	29608			0.00- 34.09		3.97
183 4-Ethyltoluene					CAS #: 622-96-8			
11.286	11.287 (1.193)	120	295596	20.0000	20.284	80.00- 120.00		100.00

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
183 4-Ethyltoluene (continued)							
11.286	11.287 (1.193)	105	929331			284.55- 344.55	314.39
184 2-Chlorotoluene					CAS #: 95-49-8		
11.308	11.308 (1.195)	126	235462	20.0000	20.537	80.00- 120.00	100.00
11.308	11.308 (1.195)	91	804535			315.17- 375.17	341.68
11.301	11.301 (1.195)	65	116734			21.55- 81.55	49.58
185 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
11.365	11.365 (1.201)	120	416581	20.0000	20.680	80.00- 120.00	100.00
11.365	11.365 (1.201)	105	804831			164.93- 224.93	193.20
188 alpha Methyl Styrene					CAS #: 98-83-9		
11.645	11.645 (1.231)	118	413999	20.0000	20.536	80.00- 120.00	100.00
11.645	11.645 (1.231)	103	229936			25.30- 85.30	55.54
189 tert-Butylbenzene					CAS #: 98-06-6		
11.738	11.738 (1.241)	119	765020	20.0000	20.366	80.00- 120.00	100.00
11.738	11.738 (1.241)	134	183021			0.00- 54.25	23.92
11.738	11.738 (1.241)	91	463050			31.27- 91.27	60.53
190 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
11.817	11.817 (1.249)	105	783363	20.0000	20.495	80.00- 120.00	100.00
11.817	11.817 (1.249)	120	381421			19.05- 79.05	48.69
192 sec-Butylbenzene					CAS #: 135-98-8		
11.996	11.996 (1.268)	134	242771	20.0000	20.736	80.00- 120.00	100.00
11.996	11.996 (1.268)	105	1145624			437.55- 497.55	471.89
11.996	11.996 (1.268)	91	174745			40.76- 100.76	71.98
194 p-Cymene					CAS #: 99-87-6		
12.160	12.160 (1.285)	119	1070099	20.0000	20.727	80.00- 120.00	100.00
12.160	12.160 (1.285)	134	276177			0.00- 55.54	25.81
12.153	12.153 (1.285)	91	231505			0.00- 51.48	21.63
195 1,3-Dichlorobenzene					CAS #: 541-73-1		
12.196	12.196 (1.289)	146	515702	20.0000	19.622	80.00- 120.00	100.00
12.203	12.196 (1.290)	148	331017			33.21- 93.21	64.19
12.196	12.196 (1.289)	111	214395			11.31- 71.31	41.57
196 1,4-Dichlorobenzene					CAS #: 106-46-7		
12.311	12.311 (1.301)	146	514316	20.0000	19.523	80.00- 120.00	100.00
12.311	12.311 (1.301)	148	333938			33.90- 93.90	64.93
12.311	12.311 (1.301)	111	204966			9.45- 69.45	39.85
199 alpha-Chlorotoluene					CAS #: 100-44-7		
12.461	12.461 (1.317)	91	728285	20.0000	20.267	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
199 alpha-Chlorotoluene (continued)							
12.461	12.461 (1.317)	126	167108			0.00- 53.26	22.95
201 Undecane					CAS #: 1120-21-4		
12.640	12.640 (1.336)	57	833319	20.0000	19.843	80.00- 120.00	100.00
12.640	12.640 (1.336)	43	748015			58.12- 118.12	89.76
202 Butylbenzene					CAS #: 104-51-8		
12.626	12.626 (1.335)	134	269536	20.0000	20.284	80.00- 120.00	100.00
12.626	12.626 (1.335)	91	921873			314.79- 374.79	342.02
12.626	12.626 (1.335)	92	496131			154.29- 214.29	184.07
204 1,2-Dichlorobenzene					CAS #: 95-50-1		
12.741	12.741 (1.347)	146	516436	20.0000	20.144	80.00- 120.00	100.00
12.741	12.741 (1.347)	148	324827			33.84- 93.84	62.90
12.733	12.741 (1.346)	111	222511			12.73- 72.73	43.09
206 1,2-Dibromo-3-chloropropane					CAS #: 96-12-8		
13.600	13.600 (1.438)	157	313020	20.0000	20.327	80.00- 120.00	100.00
13.600	13.600 (1.438)	75	265111			52.48- 112.48	84.69
13.600	13.600 (1.438)	155	243659			47.41- 107.41	77.84
207 Dodecane					CAS #: 112-40-3		
13.801	13.801 (1.459)	57	755474	24.7000	24.812	80.00- 120.00	100.00
13.801	13.801 (1.459)	43	627549			52.87- 112.87	83.07
213 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
14.467	14.467 (1.529)	180	457157	25.2000	24.597	80.00- 120.00	100.00
14.467	14.467 (1.529)	182	438717			65.33- 125.33	95.97
215 Hexachlorobutadiene					CAS #: 87-68-3		
14.581	14.582 (1.541)	225	335930	25.7000	25.915	80.00- 120.00	100.00
14.581	14.582 (1.541)	223	210653			33.17- 93.17	62.71
216 Naphthalene					CAS #: 91-20-3		
14.761	14.768 (1.560)	128	112848	2.54000	2.343	80.00- 120.00	100.00
14.768	14.768 (1.561)	127	14592			0.00- 42.88	12.93
222 1,2,3-Trichlorobenzene					CAS #: 87-61-6		
15.069	15.069 (1.593)	180	420041	26.6000	25.838	80.00- 120.00	100.00
15.069	15.069 (1.593)	182	398636			65.75- 125.75	94.90
15.069	15.069 (1.593)	145	147343			5.23- 65.23	35.08

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p051907.d
Lab Smp Id: ICAL Level 6
Analysis Type: VOA
Quant Type: ISTD
Operator: LD
Method File: /chem/msdp.i/19MAY21.b/p21q0519a.m
Misc Info: 20ppbv (200ppbv)

Calibration Date: 19-MAY-2021
Calibration Time: 15:55
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	158810	95286	222334	161884	1.94
108 1,4-Difluorobenze	597103	358262	835944	591321	-0.97
153 Chlorobenzene-d5	587747	352648	822846	579226	-1.45

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.78	5.45	6.11	5.78	-0.00
108 1,4-Difluorobenze	6.66	6.33	6.99	6.66	-0.00
153 Chlorobenzene-d5	9.46	9.13	9.79	9.46	-0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msdp.i/19MAY21.b/p051907.d

Date : 19-MAY-2021 15:27

Client ID:

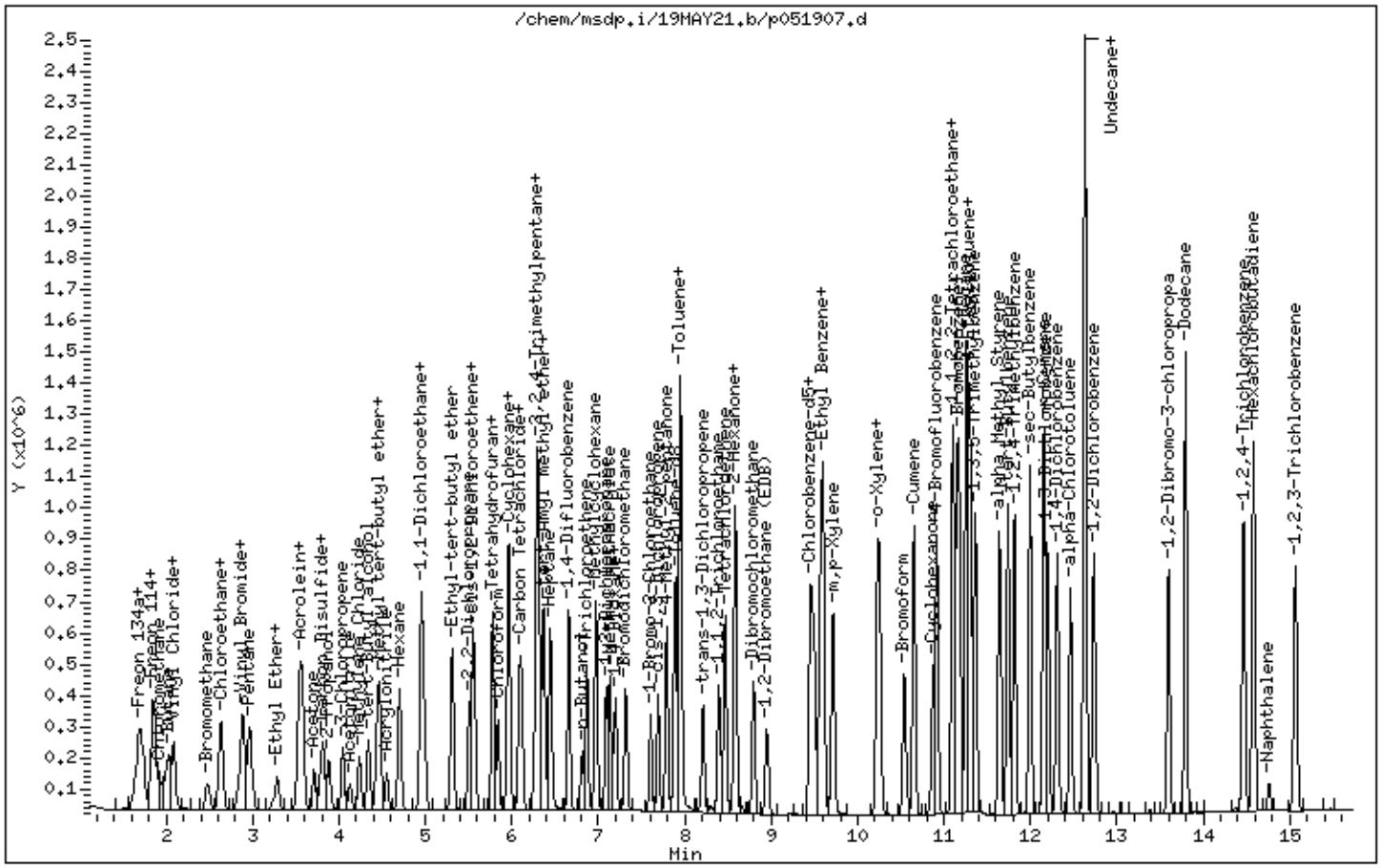
Instrument: msdp.i

Sample Info: 20mL 3018-2034

Operator: LD

Column phase: RTX-624

Column diameter: 0.25



US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/19MAY21.b/p051918.d
Lab Smp Id: ICAL Level 6
Inj Date : 19-MAY-2021 21:10
Operator : gh Inst ID: msdp.i
Smp Info : 20mL 3018-2013
Misc Info : 20ppbv (200ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/19MAY21.b/p21q0519a.m
Meth Date : 20-May-2021 09:50 lk8g Quant Type: ISTD
Cal Date : 19-MAY-2021 21:10 Cal File: p051918.d
Als bottle: 3 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT20spICAL.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 90 Bromochloromethane					CAS #: 74-97-5		
5.778	5.778 (1.000)	130	164276	25.0000		80.00- 120.00	100.00
5.778	5.778 (1.000)	128	126583			48.23- 108.23	77.06
5.771	5.778 (1.000)	49	292813			150.57- 210.57	178.24
* 108 1,4-Difluorobenzene					CAS #: 540-36-3		
6.659	6.659 (1.000)	114	594883	25.0000		80.00- 120.00	100.00
6.659	6.659 (1.000)	88	94502			0.00- 45.71	15.89
* 153 Chlorobenzene-d5					CAS #: 3114-55-4		
9.460	9.460 (1.000)	117	584012	25.0000		80.00- 120.00	100.00
9.453	9.460 (1.000)	82	316968			23.78- 83.78	54.27
3 Freon 143a					CAS #: 420-46-2		
1.577	1.590 (0.273)	65	63953	20.0000	19.336	80.00- 120.00	100.00
1.591	1.590 (0.275)	69	170661			243.50- 303.50	266.85
1.591	1.590 (0.275)	64	16338			0.00- 54.06	25.55
6 Propane					CAS #: 74-98-6		
1.674	1.674 (0.290)	43	46853	20.0000	15.945	80.00- 120.00	100.00

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
6 Propane (continued)							
1.674	1.674 (0.290)	39	29481			34.98- 94.98	62.92
1.674	1.674 (0.290)	41	25457			25.22- 85.22	54.33
13 Freon 142b					CAS #: 75-68-3		
1.884	1.884 (0.326)	65	252531	20.0000	15.611	80.00- 120.00	100.00
1.884	1.884 (0.326)	45	76512			0.00- 59.77	30.30
36 1-Pentene					CAS #: 109-67-1		
2.906	2.906 (0.503)	55	180760	20.0000	16.998	80.00- 120.00	100.00
2.906	2.906 (0.503)	42	247205			105.17- 165.17	136.76
40 Freon 123a					CAS #: 354-23-4		
3.378	3.385 (0.585)	117	177874	20.0000	17.207	80.00- 120.00	100.00
3.378	3.378 (0.585)	67	248317			104.69- 164.69	139.60
41 Freon 123					CAS #: 306-83-2		
3.472	3.479 (0.601)	83	276366	20.0000	18.974	80.00- 120.00	100.00
3.479	3.479 (0.602)	133	56290			0.00- 50.87	20.37
3.472	3.479 (0.601)	85	179827			36.08- 96.08	65.07
55 Cyclopentene					CAS #: 142-29-0		
4.073	4.073 (0.705)	67	281294	20.0000	18.118	80.00- 120.00	100.00
4.073	4.073 (0.705)	68	105999			6.76- 66.76	37.68
4.066	4.073 (0.704)	53	78449			0.00- 57.54	27.89
56 Methyl Acetate					CAS #: 79-20-9		
4.073	4.073 (0.705)	43	314311	20.0000	17.425	80.00- 120.00	100.00
4.073	4.073 (0.705)	74	43403			0.00- 44.13	13.81
74 Chloroprene					CAS #: 126-99-8		
5.019	5.019 (0.869)	53	249821	20.0000	17.505	80.00- 120.00	100.00
5.019	5.019 (0.869)	88	97837			9.21- 69.21	39.16
5.019	5.019 (0.869)	50	60899			0.00- 54.25	24.38
75 1-Propanol					CAS #: 71-23-8		
5.083	5.083 (0.880)	59	33679	20.0000	15.446	80.00- 120.00	100.00
5.083	5.083 (0.880)	42	32228			63.23- 123.23	95.69
5.083	5.083 (0.880)	41	20019			24.74- 84.74	59.44
88 Methyl Acrylate					CAS #: 96-33-3		
5.620	5.620 (0.973)	55	317339	20.0000	16.802	80.00- 120.00	100.00
5.620	5.620 (0.973)	85	34842			0.00- 41.28	10.98
5.620	5.620 (0.973)	58	27405			0.00- 38.22	8.64
103 Isobutanol					CAS #: 78-83-1		
6.244	6.244 (1.081)	39	37572	20.0000	16.140	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
103 Isobutanol (continued)							
6.244	6.244 (1.081)	43	188703			448.18- 508.18	502.24
6.244	6.244 (1.081)	41	131184			299.99- 359.99	349.15
113 Ethyl acrylate					CAS #: 140-88-5		
6.938	6.938 (0.733)	99	23633	20.0000	17.406	80.00- 120.00	100.00
6.938	6.938 (0.733)	45	44798			149.95- 209.95	189.56
6.938	6.938 (0.733)	55	458959			1849.07-1909.07	1942.03
115 2-Pentanone					CAS #: 107-87-9		
7.032	7.031 (0.743)	43	549397	20.0000	18.604	80.00- 120.00	100.00
7.032	7.031 (0.743)	58	42813			0.00- 37.44	7.79
7.032	7.031 (0.743)	86	69391			0.00- 42.78	12.63
145 Butyl Acetate					CAS #: 123-86-4		
8.658	8.665 (1.300)	56	289132	20.0000	19.218	80.00- 120.00	100.00
8.665	8.665 (1.301)	73	85224			0.00- 59.10	29.48
8.658	8.657 (1.300)	43	710835			215.30- 275.30	245.85
157 1,1,1,2-Tetrachloroethane					CAS #: 630-20-6		
9.596	9.596 (1.014)	131	265099	20.0000	20.462	80.00- 120.00	100.00
9.460	9.460 (1.000)	117	584012			57.42- 117.42	220.30
9.596	9.596 (1.014)	95	96156			5.70- 65.70	36.27
166 2-Heptanone					CAS #: 110-43-0		
10.362	10.362 (1.793)	58	456297	20.0000	19.048	80.00- 120.00	100.00
10.362	10.362 (1.793)	43	750475			136.03- 196.03	164.47
172 D-Limonene					CAS #: 5989-27-5		
12.089	12.089 (1.278)	68	366276	20.0000	30.886	80.00- 120.00	100.00
12.089	12.089 (1.278)	93	252611			39.41- 99.41	68.97
186 4-Chlorotoluene					CAS #: 106-43-4		
11.444	11.444 (1.210)	126	233965	20.0000	19.501	80.00- 120.00	100.00
11.444	11.444 (1.210)	91	762751			295.02- 355.02	326.01
11.444	11.444 (1.210)	63	101096			11.82- 71.82	43.21
197 1,2,3-Trimethylbenzene					CAS #: 526-73-8		
12.318	12.318 (1.302)	120	356670	20.0000	20.382	80.00- 120.00	100.00
12.318	12.318 (1.302)	105	795713			192.40- 252.40	223.10
12.318	12.318 (1.302)	77	89457			0.00- 54.69	25.08
205 Hexachloroethane					CAS #: 67-72-1		
12.970	12.970 (1.371)	201	175433	20.0000	27.542	80.00- 120.00	100.00
12.970	12.970 (1.371)	117	236009			102.99- 162.99	134.53

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
208 1,3,5-Trichlorobenzene					CAS #: 108-70-3		
13.758	13.758 (1.454)	180	464814	20.0000	19.008	80.00- 120.00	100.00
13.758	13.758 (1.454)	182	442074			65.24- 125.24	95.11
210 alpha-Pinene					CAS #: 80-56-8		
10.599	10.599 (1.120)	93	504688	20.0000	21.723	80.00- 120.00	100.00
10.599	10.599 (1.120)	77	146698			0.00- 58.21	29.07
214 beta-Pinene					CAS #: 127-91-3		
11.423	11.422 (1.207)	93	403829	20.0000	27.931	80.00- 120.00	100.00
11.444	11.444 (1.210)	91	762751			153.57- 213.57	188.88

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p051918.d
Lab Smp Id: ICAL Level 6
Analysis Type: VOA
Quant Type: ISTD
Operator: gh
Method File: /chem/msdp.i/19MAY21.b/p21q0519a.m
Misc Info: 20ppbv (200ppbv)

Calibration Date: 19-MAY-2021
Calibration Time: 15:55
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	158810	95286	222334	164276	3.44
108 1,4-Difluorobenze	597103	358262	835944	594883	-0.37
153 Chlorobenzene-d5	587747	352648	822846	584012	-0.64

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.78	5.45	6.11	5.78	-0.00
108 1,4-Difluorobenze	6.66	6.33	6.99	6.66	-0.00
153 Chlorobenzene-d5	9.46	9.13	9.79	9.46	-0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msdp.i/19MAY21.b/p051918.d

Date : 19-MAY-2021 21:10

Client ID:

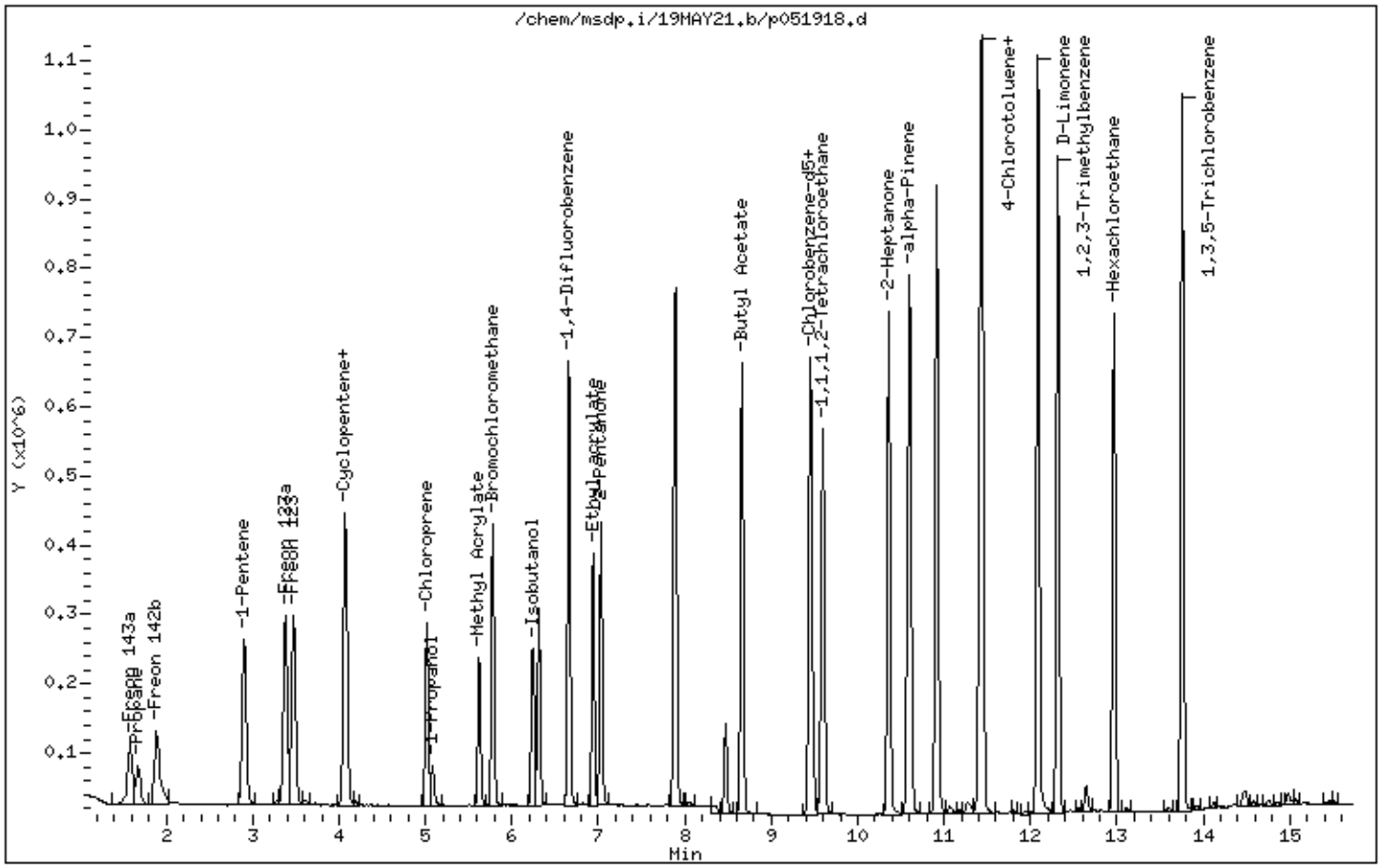
Instrument: msdp.i

Sample Info: 20mL 3018-2013

Operator: gh

Column phase: RTX-624

Column diameter: 0.25



US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/19MAY21.b/p051908.d
Lab Smp Id: ICAL Level 7
Inj Date : 19-MAY-2021 15:55
Operator : LD Inst ID: msdp.i
Smp Info : 50mL 3018-2034
Misc Info : 50ppbv (200ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/19MAY21.b/p21q0519a.m
Meth Date : 20-May-2021 09:49 lk8g Quant Type: ISTD
Cal Date : 19-MAY-2021 21:38 Cal File: p051919.d
Als bottle: 13 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT20ICAL.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
4 Freon 134a					CAS #: 811-97-2		
1.633	1.633 (0.283)	83	246691	50.0000	50.000	80.00- 120.00	100.00
1.633	1.633 (0.283)	69	220643			59.44- 119.44	89.44
1.745	1.745 (0.302)	51	1107781			419.06- 479.06	449.06
5 Propylene					CAS #: 115-07-1		
1.675	1.675 (0.290)	41	345627	50.0000	50.000	80.00- 120.00	100.00
1.675	1.675 (0.290)	42	225623			35.28- 95.28	65.28
1.675	1.675 (0.290)	39	236222			38.35- 98.35	68.35
7 1,1-Difluoroethane					CAS #: 75-37-6		
1.703	1.703 (0.295)	65	176502	50.0000	50.000	80.00- 120.00	100.00
1.745	1.745 (0.302)	51	1107781			597.63- 657.63	627.63
1.703	1.703 (0.295)	47	112469			33.72- 93.72	63.72
8 Freon 12					CAS #: 75-71-8		
1.717	1.717 (0.297)	85	711177	50.0000	50.000	80.00- 120.00	100.00
1.717	1.717 (0.297)	87	230217			2.37- 62.37	32.37
9 Chlorodifluoromethane					CAS #: 75-45-6		
1.745	1.745 (0.302)	67	72356	50.0000	50.000	80.00- 120.00	100.00

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
9 Chlorodifluoromethane (continued)							
1.745	1.745 (0.302)	51	1107781			1501.01-1561.01	1531.01
10 Freon 114					CAS #: 76-14-2		
1.856	1.856 (0.321)	135	685577	50.0000	50.000	80.00- 120.00	100.00
1.856	1.856 (0.321)	137	221438			2.30- 62.30	32.30
12 Isobutane					CAS #: 75-28-5		
1.870	1.870 (0.324)	43	735430	50.0000	50.000	80.00- 120.00	100.00
1.870	1.870 (0.324)	42	238581			2.44- 62.44	32.44
1.856	1.856 (0.321)	58	24710			0.00- 33.36	3.36
15 Chloromethane					CAS #: 74-87-3		
1.940	1.940 (0.336)	50	447790	50.0000	50.000	80.00- 120.00	100.00
1.940	1.940 (0.336)	52	117587			0.00- 56.26	26.26
18 Butane					CAS #: 106-97-8		
2.025	2.025 (0.350)	58	75310	50.0000	50.000	80.00- 120.00	100.00
2.025	2.025 (0.350)	43	642610			823.29- 883.29	853.29
19 Vinyl Chloride					CAS #: 75-01-4		
2.068	2.068 (0.358)	62	454203	50.0000	50.000	80.00- 120.00	100.00
2.068	2.068 (0.358)	64	134867			0.00- 59.69	29.69
20 1,3-Butadiene					CAS #: 106-99-0		
2.089	2.089 (0.362)	54	422955	50.0000	50.000	80.00- 120.00	100.00
2.089	2.089 (0.362)	39	348369			52.37- 112.37	82.37
24 Bromomethane					CAS #: 74-83-9		
2.483	2.483 (0.430)	94	285084	50.0000	50.000	80.00- 120.00	100.00
2.483	2.483 (0.430)	96	268184			64.07- 124.07	94.07
30 Chloroethane					CAS #: 75-00-3		
2.612	2.612 (0.452)	64	167305	50.0000	50.000	80.00- 120.00	100.00
2.605	2.605 (0.451)	66	50256			0.04- 60.04	30.04
2.612	2.612 (0.452)	49	57784			4.54- 64.54	34.54
31 Isopentane					CAS #: 78-78-4		
2.634	2.634 (0.456)	43	523495	50.0000	50.000	80.00- 120.00	100.00
2.641	2.641 (0.457)	57	335680			34.12- 94.12	64.12
32 Vinyl Bromide					CAS #: 593-60-2		
2.841	2.841 (0.492)	106	275173	50.0000	50.000	80.00- 120.00	100.00
2.841	2.841 (0.492)	108	273159			69.27- 129.27	99.27
33 Freon 11					CAS #: 75-69-4		
2.884	2.884 (0.499)	101	730878	50.0000	50.000	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
33 Freon 11 (continued)							
2.884	2.884 (0.499)	103	472992			34.72- 94.72	64.72
34 Dichlorofluoromethane					CAS #: 75-43-4		
2.899	2.899 (0.502)	67	628672	50.0000	50.000	80.00- 120.00	100.00
2.899	2.899 (0.502)	69	193895			0.84- 60.84	30.84
35 Pentane					CAS #: 109-66-0		
2.970	2.970 (0.514)	43	852276	50.0000	50.000	80.00- 120.00	100.00
2.970	2.970 (0.514)	57	127691			0.00- 44.98	14.98
2.970	2.970 (0.514)	72	63019			0.00- 37.39	7.39
38 Ethyl Ether					CAS #: 60-29-7		
3.285	3.285 (0.569)	74	146830	50.0000	50.000	80.00- 120.00	100.00
3.285	3.285 (0.569)	59	284064			163.46- 223.46	193.46
3.285	3.285 (0.569)	45	411715			250.40- 310.40	280.40
39 Ethanol					CAS #: 64-17-5		
3.242	3.242 (0.561)	46	75752	50.0000	50.000	80.00- 120.00	100.00
3.285	3.285 (0.569)	45	409963			511.19- 571.19	541.19
42 Acrolein					CAS #: 107-02-8		
3.529	3.529 (0.611)	55	129512	50.0000	50.000	80.00- 120.00	100.00
3.529	3.529 (0.611)	56	182747			111.10- 171.10	141.10
43 Freon 113					CAS #: 76-13-1		
3.550	3.550 (0.614)	151	547261	50.0000	50.000	80.00- 120.00	100.00
3.550	3.550 (0.614)	153	347836			33.56- 93.56	63.56
3.550	3.550 (0.614)	101	652410			89.21- 149.21	119.21
44 1,1-Dichloroethene					CAS #: 75-35-4		
3.579	3.579 (0.619)	96	312049	50.0000	50.000	80.00- 120.00	100.00
3.579	3.579 (0.619)	98	199778			34.02- 94.02	64.02
3.579	3.579 (0.619)	61	620248			168.77- 228.77	198.77
47 Acetone					CAS #: 67-64-1		
3.708	3.708 (0.642)	58	198391	50.0000	50.000	80.00- 120.00	100.00
3.708	3.708 (0.642)	43	660552			302.95- 362.95	332.95
48 Carbon Disulfide					CAS #: 75-15-0		
3.823	3.823 (0.662)	76	846836	50.0000	50.000	80.00- 120.00	100.00
49 Iodomethane					CAS #: 74-88-4		
3.794	3.794 (0.657)	142	699816	50.0000	50.000	80.00- 120.00	100.00
3.794	3.794 (0.657)	127	295430			12.22- 72.22	42.22

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
52 2-Propanol					CAS #: 67-63-0		
3.887	3.887 (0.673)	45	823329	50.0000	50.000	80.00- 120.00	100.00
3.887	3.887 (0.673)	43	141505			0.00- 47.19	17.19
54 3-Chloropropene					CAS #: 107-05-1		
4.052	4.052 (0.701)	76	142539	50.0000	50.000	80.00- 120.00	100.00
4.045	4.045 (0.700)	41	607488			396.19- 456.19	426.19
57 Acetonitrile					CAS #: 75-05-8		
4.123	4.123 (0.714)	41	379243	50.0000	50.000	80.00- 120.00	100.00
4.123	4.123 (0.714)	40	193207			20.95- 80.95	50.95
4.123	4.123 (0.714)	38	42379			0.00- 41.17	11.17
59 Methylene Chloride					CAS #: 75-09-2		
4.238	4.238 (0.733)	49	522699	50.0000	50.000	80.00- 120.00	100.00
4.238	4.238 (0.733)	84	271957			22.03- 82.03	52.03
4.238	4.238 (0.733)	51	157735			0.18- 60.18	30.18
62 tert-Butyl alcohol					CAS #: 75-65-0		
4.338	4.338 (0.751)	59	920285	50.0000	50.000	80.00- 120.00	100.00
4.338	4.338 (0.751)	41	194304			0.00- 51.11	21.11
4.338	4.338 (0.751)	57	96551			0.00- 40.49	10.49
63 Methyl tert-butyl ether					CAS #: 1634-04-4		
4.446	4.446 (0.769)	73	938706	50.0000	50.000	80.00- 120.00	100.00
4.446	4.446 (0.769)	57	310725			3.10- 63.10	33.10
4.446	4.446 (0.769)	41	293659			1.28- 61.28	31.28
64 trans-1,2-Dichloroethene					CAS #: 156-60-5		
4.482	4.482 (0.776)	98	212528	50.0000	50.000	80.00- 120.00	100.00
4.474	4.474 (0.774)	61	607494			255.84- 315.84	285.84
4.482	4.482 (0.776)	96	334925			127.59- 187.59	157.59
66 Acrylonitrile					CAS #: 107-13-1		
4.560	4.560 (0.789)	52	293221	50.0000	50.000	80.00- 120.00	100.00
4.560	4.560 (0.789)	53	346138			88.05- 148.05	118.05
67 Hexane					CAS #: 110-54-3		
4.697	4.697 (0.813)	57	758783	50.0000	50.000	80.00- 120.00	100.00
4.697	4.697 (0.813)	43	512299			37.52- 97.52	67.52
4.697	4.697 (0.813)	86	87084			0.00- 41.48	11.48
71 1,1-Dichloroethane					CAS #: 75-34-3		
4.962	4.962 (0.859)	63	664501	50.0000	50.000	80.00- 120.00	100.00
4.962	4.962 (0.859)	65	197374			0.00- 59.70	29.70

					AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
RT	EXP RT (REL RT)	MASS	RESPONSE					
72 Isopropyl ether						CAS #: 108-20-3		
4.954	4.954 (0.857)	45	1800515	50.0000	50.000	80.00- 120.00	100.00	
4.954	4.954 (0.857)	87	327418			0.00- 48.18	18.18	
4.954	4.954 (0.857)	59	182720			0.00- 40.15	10.15	
73 Vinyl Acetate						CAS #: 108-05-4		
4.997	4.997 (0.865)	86	84247	50.0000	50.000	80.00- 120.00	100.00	
4.990	4.990 (0.864)	43	2074564			2432.48-2492.48	2462.48	
79 Ethyl-tert-butyl ether						CAS #: 637-92-3		
5.305	5.305 (0.918)	59	1553756	50.0000	50.000	80.00- 120.00	100.00	
5.305	5.305 (0.918)	87	481611			1.00- 61.00	31.00	
5.305	5.305 (0.918)	41	291010			0.00- 48.73	18.73	
84 2,2-Dichloropropane						CAS #: 594-20-7		
5.506	5.506 (0.953)	77	589524	50.0000	50.000	80.00- 120.00	100.00	
5.506	5.506 (0.953)	79	190269			2.28- 62.28	32.28	
5.506	5.506 (0.953)	97	141063			0.00- 53.93	23.93	
85 cis-1,2-Dichloroethene						CAS #: 156-59-2		
5.549	5.549 (0.960)	98	230520	50.0000	50.000	80.00- 120.00	100.00	
5.549	5.549 (0.960)	96	359034			125.75- 185.75	155.75	
5.549	5.549 (0.960)	61	835407			332.40- 392.40	362.40	
86 2-Butanone						CAS #: 78-93-3		
5.556	5.556 (0.962)	72	170377	50.0000	50.000	80.00- 120.00	100.00	
5.563	5.563 (0.963)	43	2120337			1214.50-1274.50	1244.50	
5.556	5.556 (0.962)	57	76128			14.68- 74.68	44.68	
87 Ethyl Acetate						CAS #: 141-78-6		
5.570	5.570 (0.964)	45	173307	50.0000	50.000	80.00- 120.00	100.00	
5.549	5.549 (0.960)	61	835407			452.04- 512.04	482.04	
5.570	5.570 (0.964)	70	91460			22.77- 82.77	52.77	
89 Tetrahydrofuran						CAS #: 109-99-9		
5.771	5.771 (0.999)	42	583804	50.0000	50.000	80.00- 120.00	100.00	
5.771	5.771 (0.999)	71	150745			0.00- 55.82	25.82	
5.771	5.771 (0.999)	72	161049			0.00- 57.59	27.59	
* 90 Bromochloromethane						CAS #: 74-97-5		
5.778	5.778 (1.000)	130	158810	25.0000		80.00- 120.00	100.00	
5.778	5.778 (1.000)	128	124237			48.23- 108.23	78.23	
5.778	5.778 (1.000)	49	286765			150.57- 210.57	180.57	
92 Chloroform						CAS #: 67-66-3		
5.835	5.835 (1.010)	83	689555	50.0000	50.000	80.00- 120.00	100.00	

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
92 Chloroform (continued)							
5.835	5.835 (1.010)	85	446160			34.70- 94.70	64.70
94 Cyclohexane					CAS #: 110-82-7		
5.957	5.957 (1.031)	84	486964	50.0000	50.000	80.00- 120.00	100.00
5.957	5.957 (1.031)	56	840372			142.57- 202.57	172.57
5.957	5.957 (1.031)	41	448455			62.09- 122.09	92.09
96 1,1,1-Trichloroethane					CAS #: 71-55-6		
5.972	5.972 (1.033)	97	752510	50.0000	50.000	80.00- 120.00	100.00
5.972	5.972 (1.033)	99	481725			34.02- 94.02	64.02
97 Carbon Tetrachloride					CAS #: 56-23-5		
6.086	6.086 (1.053)	119	735285	50.0000	50.000	80.00- 120.00	100.00
6.086	6.086 (1.053)	117	739982			70.64- 130.64	100.64
99 1,1-Dichloropropene					CAS #: 563-58-6		
6.115	6.115 (0.918)	110	197564	50.0000	50.000	80.00- 120.00	100.00
6.115	6.115 (0.918)	75	507450			226.85- 286.85	256.85
101 2,2,4-Trimethylpentane					CAS #: 540-84-1		
6.280	6.280 (1.087)	57	2728265	50.0000	50.000	80.00- 120.00	100.00
6.280	6.280 (1.087)	56	879725			2.24- 62.24	32.24
6.280	6.280 (1.087)	41	665520			0.00- 54.39	24.39
102 Benzene					CAS #: 71-43-2		
6.301	6.301 (0.946)	78	987337	50.0000	50.000	80.00- 120.00	100.00
6.301	6.301 (0.946)	77	226078			0.00- 52.90	22.90
$ 104 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
6.308	6.308 (1.092)	65	213713	25.0000	25.000	80.00- 120.00	100.00
6.308	6.308 (1.092)	67	122256			27.21- 87.21	57.21
105 tert-Amyl methyl ether					CAS #: 994-05-8		
6.358	6.358 (0.955)	87	279227	50.0000	50.000	80.00- 120.00	100.00
6.358	6.358 (0.955)	73	1124694			372.79- 432.79	402.79
6.358	6.358 (0.955)	55	396758			112.09- 172.09	142.09
106 1,2-Dichloroethane					CAS #: 107-06-2		
6.380	6.380 (0.958)	62	526134	50.0000	50.000	80.00- 120.00	100.00
6.380	6.380 (0.958)	64	162017			0.79- 60.79	30.79
107 Heptane					CAS #: 142-82-5		
6.444	6.444 (0.968)	71	395953	50.0000	50.000	80.00- 120.00	100.00
6.444	6.444 (0.968)	43	1015753			226.53- 286.53	256.53
6.444	6.444 (0.968)	57	518123			100.85- 160.85	130.85

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 108 1,4-Difluorobenzene						CAS #: 540-36-3	
6.659	6.659 (1.000)	114	597103	25.0000		80.00- 120.00	100.00
6.659	6.659 (1.000)	88	93822			0.00- 45.71	15.71
110 n-Butanol						CAS #: 71-36-3	
6.810	6.810 (1.023)	56	364840	50.0000	50.000	80.00- 120.00	100.00
6.810	6.810 (1.023)	41	258986			40.99- 100.99	70.99
6.810	6.810 (1.023)	43	209354			27.38- 87.38	57.38
111 Trichloroethene						CAS #: 79-01-6	
6.867	6.867 (1.031)	95	478111	50.0000	50.000	80.00- 120.00	100.00
6.867	6.867 (1.031)	130	508207			76.29- 136.29	106.29
6.867	6.867 (1.031)	97	304245			33.63- 93.63	63.63
114 1,2-Dichloropropane						CAS #: 78-87-5	
7.089	7.089 (1.065)	63	491834	50.0000	50.000	80.00- 120.00	100.00
7.089	7.089 (1.065)	62	349523			41.07- 101.07	71.07
7.096	7.096 (1.066)	41	258375			22.53- 82.53	52.53
116 Methyl Methacrylate						CAS #: 80-62-6	
7.132	7.132 (0.754)	69	400937	50.0000	50.000	80.00- 120.00	100.00
7.132	7.132 (0.754)	41	841331			179.84- 239.84	209.84
7.139	7.139 (0.755)	100	158742			9.59- 69.59	39.59
117 1,4-Dioxane						CAS #: 123-91-1	
7.175	7.175 (1.077)	88	263150	50.0000	50.000	80.00- 120.00	100.00
7.175	7.175 (1.077)	58	258613			68.28- 128.28	98.28
7.175	7.175 (1.077)	57	86007			2.68- 62.68	32.68
118 Dibromomethane						CAS #: 74-95-3	
7.204	7.204 (0.761)	174	444945	50.0000	50.000	80.00- 120.00	100.00
7.204	7.204 (0.761)	93	400838			60.09- 120.09	90.09
7.204	7.204 (0.761)	95	348769			48.38- 108.38	78.38
122 Bromodichloromethane						CAS #: 75-27-4	
7.318	7.318 (1.099)	83	751298	50.0000	50.000	80.00- 120.00	100.00
7.318	7.318 (1.099)	85	490118			35.24- 95.24	65.24
126 cis-1,3-Dichloropropene						CAS #: 10061-01-5	
7.691	7.691 (1.155)	75	619937	50.0000	50.000	80.00- 120.00	100.00
7.691	7.691 (1.155)	77	200964			2.42- 62.42	32.42
7.691	7.691 (1.155)	39	416341			37.16- 97.16	67.16
127 Methylcyclohexane						CAS #: 108-87-2	
6.974	6.974 (1.047)	83	700725	50.0000	50.000	80.00- 120.00	100.00
6.974	6.974 (1.047)	98	320784			15.78- 75.78	45.78

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
127 Methylcyclohexane (continued)							
6.974	6.974 (1.047)	55	803336			84.64- 144.64	114.64
131 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.791	7.791 (1.170)	58	494934	50.0000	50.000	80.00- 120.00	100.00
7.791	7.791 (1.170)	43	1347937			242.35- 302.35	272.35
7.791	7.791 (1.170)	85	164527			3.24- 63.24	33.24
$ 134 Toluene-d8					CAS #: 2037-26-5		
7.891	7.891 (1.185)	98	647681	25.0000	25.000	80.00- 120.00	100.00
7.891	7.891 (1.185)	70	67618			0.00- 40.44	10.44
7.891	7.891 (1.185)	100	420696			34.95- 94.95	64.95
137 Toluene					CAS #: 108-88-3		
7.949	7.949 (1.194)	91	1352715	50.0000	50.000	80.00- 120.00	100.00
7.949	7.949 (1.194)	92	789761			28.38- 88.38	58.38
136 Octane					CAS #: 111-65-9		
7.949	7.949 (1.194)	57	571594	50.0000	50.000	80.00- 120.00	100.00
7.949	7.949 (1.194)	85	491595			56.00- 116.00	86.00
7.949	7.949 (1.194)	43	1478464			228.66- 288.66	258.66
139 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
8.214	8.214 (0.868)	75	595661	50.0000	50.000	80.00- 120.00	100.00
8.214	8.214 (0.868)	77	186109			1.24- 61.24	31.24
8.214	8.214 (0.868)	39	381886			34.11- 94.11	64.11
141 1,1,2-Trichloroethane					CAS #: 79-00-5		
8.400	8.400 (0.888)	97	475355	50.0000	50.000	80.00- 120.00	100.00
8.400	8.400 (0.888)	99	294547			31.96- 91.96	61.96
8.400	8.400 (0.888)	83	394203			52.93- 112.93	82.93
142 Tetrachloroethene					CAS #: 127-18-4		
8.464	8.464 (0.895)	166	677222	50.0000	50.000	80.00- 120.00	100.00
8.464	8.464 (0.895)	129	527121			47.84- 107.84	77.84
8.464	8.464 (0.895)	131	509856			45.29- 105.29	75.29
143 2-Hexanone					CAS #: 591-78-6		
8.586	8.586 (0.908)	58	681778	50.0000	50.000	80.00- 120.00	100.00
8.586	8.586 (0.908)	43	1314958			162.87- 222.87	192.87
8.586	8.586 (0.908)	100	108687			0.00- 45.94	15.94
144 1,3-Dichloropropane					CAS #: 142-28-9		
8.579	8.579 (1.288)	76	664559	50.0000	50.000	80.00- 120.00	100.00
8.579	8.579 (1.288)	41	830619			94.99- 154.99	124.99
8.579	8.579 (1.288)	78	212995			2.05- 62.05	32.05

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
146 Dibromochloromethane						CAS #: 124-48-1	
8.801	8.801 (0.930)	129	909694	50.0000	50.000	80.00- 120.00	100.00
8.801	8.801 (0.930)	127	704539			47.45- 107.45	77.45
148 1,2-Dibromoethane (EDB)						CAS #: 106-93-4	
8.951	8.951 (0.946)	107	776769	50.0000	50.000	80.00- 120.00	100.00
8.951	8.951 (0.946)	109	731780			64.21- 124.21	94.21
151 1-Bromo-2-Chloroethane						CAS #: 107-04-0	
7.605	7.605 (1.142)	63	919549	50.0000	50.000	80.00- 120.00	100.00
7.605	7.605 (1.142)	65	272524			0.00- 59.64	29.64
7.605	7.605 (1.142)	144	88579			0.00- 39.63	9.63
* 153 Chlorobenzene-d5						CAS #: 3114-55-4	
9.460	9.460 (1.000)	117	587747	25.0000		80.00- 120.00	100.00
9.460	9.460 (1.000)	82	316106			23.78- 83.78	53.78
154 Chlorobenzene						CAS #: 108-90-7	
9.496	9.496 (1.004)	112	1161228	50.0000	50.000	80.00- 120.00	100.00
9.496	9.496 (1.004)	114	368543			1.74- 61.74	31.74
9.496	9.496 (1.004)	77	639171			25.04- 85.04	55.04
155 Ethyl Benzene						CAS #: 100-41-4	
9.567	9.567 (1.011)	106	611900	50.0000	50.000	80.00- 120.00	100.00
9.567	9.567 (1.011)	91	1858590			273.74- 333.74	303.74
156 Nonane						CAS #: 111-84-2	
9.596	9.596 (1.014)	43	1549739	50.0000	50.000	80.00- 120.00	100.00
9.603	9.603 (1.015)	57	1304255			54.16- 114.16	84.16
9.603	9.603 (1.015)	85	370362			0.00- 53.90	23.90
158 m,p-Xylene						CAS #: 108-38-3	
9.718	9.718 (1.027)	106	756872	50.0000	50.000	80.00- 120.00	100.00
9.718	9.718 (1.027)	91	1466255			163.73- 223.73	193.73
164 o-Xylene						CAS #: 95-47-6	
10.226	10.226 (1.081)	106	727897	50.0000	50.000	80.00- 120.00	100.00
10.226	10.226 (1.081)	91	1509987			177.45- 237.45	207.45
165 Styrene						CAS #: 100-42-5	
10.255	10.255 (1.084)	104	1231272	50.0000	50.000	80.00- 120.00	100.00
10.255	10.255 (1.084)	78	589570			17.88- 77.88	47.88
167 Bromoform						CAS #: 75-25-2	
10.542	10.542 (1.114)	173	900150	50.0000	50.000	80.00- 120.00	100.00
10.542	10.542 (1.114)	171	461304			21.25- 81.25	51.25

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
168 Cumene					CAS #: 98-82-8		
10.649	10.649 (1.126)	105	2299741	50.0000	50.000	80.00- 120.00	100.00
10.649	10.649 (1.126)	120	655786			0.00- 58.52	28.52
10.649	10.649 (1.126)	51	299021			0.00- 43.00	13.00
169 Cyclohexanone					CAS #: 108-94-1		
10.871	10.871 (1.149)	55	806258	50.0000	50.000	80.00- 120.00	100.00
10.871	10.871 (1.149)	98	257503			1.94- 61.94	31.94
10.871	10.871 (1.149)	42	547332			37.89- 97.89	67.89
$ 170 4-Bromofluorobenzene					CAS #: 460-00-4		
10.921	10.921 (1.154)	174	374384	25.0000	25.000	80.00- 120.00	100.00
10.914	10.914 (1.154)	95	471423			95.92- 155.92	125.92
10.921	10.921 (1.154)	176	362754			66.89- 126.89	96.89
175 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
11.100	11.100 (1.173)	83	1121488	50.0000	50.000	80.00- 120.00	100.00
11.107	11.107 (1.174)	85	731261			35.20- 95.20	65.20
177 Bromobenzene					CAS #: 108-86-1		
11.107	11.107 (1.174)	156	708749	50.0000	50.000	80.00- 120.00	100.00
11.107	11.107 (1.174)	158	689001			67.21- 127.21	97.21
11.179	11.179 (1.182)	77	418295			29.02- 89.02	59.02
178 Propylbenzene					CAS #: 103-65-1		
11.150	11.150 (1.179)	120	677615	50.0000	50.000	80.00- 120.00	100.00
11.150	11.150 (1.179)	91	2686688			366.49- 426.49	396.49
11.150	11.150 (1.179)	105	100610			0.00- 44.85	14.85
179 1,2,3-Trichloropropane					CAS #: 96-18-4		
11.179	11.179 (1.182)	110	347438	50.0000	50.000	80.00- 120.00	100.00
11.179	11.179 (1.182)	75	1078964			280.55- 340.55	310.55
11.100	11.100 (1.173)	61	158059			15.49- 75.49	45.49
181 trans-1,4-Dichloro-2-butene					CAS #: 110-57-6		
11.179	11.179 (1.182)	53	236389	50.0000	50.000	80.00- 120.00	100.00
11.179	11.179 (1.182)	89	187005			49.11- 109.11	79.11
11.179	11.179 (1.182)	75	1078964			426.44- 486.44	456.44
182 Decane					CAS #: 124-18-5		
11.251	11.251 (1.189)	57	1759170	50.0000	50.000	80.00- 120.00	100.00
11.251	11.251 (1.189)	71	486507			0.00- 57.66	27.66
11.258	11.258 (1.190)	142	71926			0.00- 34.09	4.09
183 4-Ethyltoluene					CAS #: 622-96-8		
11.287	11.287 (1.193)	120	721963	50.0000	50.000	80.00- 120.00	100.00

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
183 4-Ethyltoluene (continued)							
11.287	11.287 (1.193)	105	2270938			284.55- 344.55	314.55
184 2-Chlorotoluene					CAS #: 95-49-8		
11.308	11.308 (1.195)	126	572035	50.0000	50.000	80.00- 120.00	100.00
11.308	11.308 (1.195)	91	1974474			315.17- 375.17	345.17
11.301	11.301 (1.195)	65	294904			21.55- 81.55	51.55
185 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
11.365	11.365 (1.201)	120	1021220	50.0000	50.000	80.00- 120.00	100.00
11.365	11.365 (1.201)	105	1990658			164.93- 224.93	194.93
188 alpha Methyl Styrene					CAS #: 98-83-9		
11.645	11.645 (1.231)	118	1032008	50.0000	50.000	80.00- 120.00	100.00
11.645	11.645 (1.231)	103	570738			25.30- 85.30	55.30
189 tert-Butylbenzene					CAS #: 98-06-6		
11.738	11.738 (1.241)	119	1907239	50.0000	50.000	80.00- 120.00	100.00
11.738	11.738 (1.241)	134	462558			0.00- 54.25	24.25
11.738	11.738 (1.241)	91	1168575			31.27- 91.27	61.27
190 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
11.817	11.817 (1.249)	105	1923799	50.0000	50.000	80.00- 120.00	100.00
11.817	11.817 (1.249)	120	943605			19.05- 79.05	49.05
192 sec-Butylbenzene					CAS #: 135-98-8		
11.996	11.996 (1.268)	134	595687	50.0000	50.000	80.00- 120.00	100.00
11.996	11.996 (1.268)	105	2785108			437.55- 497.55	467.55
11.996	11.996 (1.268)	91	421521			40.76- 100.76	70.76
194 p-Cymene					CAS #: 99-87-6		
12.160	12.160 (1.285)	119	2621026	50.0000	50.000	80.00- 120.00	100.00
12.160	12.160 (1.285)	134	669378			0.00- 55.54	25.54
12.153	12.153 (1.285)	91	562900			0.00- 51.48	21.48
195 1,3-Dichlorobenzene					CAS #: 541-73-1		
12.196	12.196 (1.289)	146	1326539	50.0000	50.000	80.00- 120.00	100.00
12.203	12.203 (1.290)	148	838543			33.21- 93.21	63.21
12.196	12.196 (1.289)	111	547931			11.31- 71.31	41.31
196 1,4-Dichlorobenzene					CAS #: 106-46-7		
12.311	12.311 (1.301)	146	1341343	50.0000	50.000	80.00- 120.00	100.00
12.311	12.311 (1.301)	148	857150			33.90- 93.90	63.90
12.311	12.311 (1.301)	111	529140			9.45- 69.45	39.45
199 alpha-Chlorotoluene					CAS #: 100-44-7		
12.461	12.461 (1.317)	91	1864560	50.0000	50.000	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
199 alpha-Chlorotoluene (continued)							
12.461	12.461 (1.317)	126	433710			0.00- 53.26	23.26
201 Undecane					CAS #: 1120-21-4		
12.640	12.640 (1.336)	57	2085733	50.0000	50.000	80.00- 120.00	100.00
12.640	12.640 (1.336)	43	1838043			58.12- 118.12	88.12
202 Butylbenzene					CAS #: 104-51-8		
12.626	12.626 (1.335)	134	662478	50.0000	50.000	80.00- 120.00	100.00
12.626	12.626 (1.335)	91	2284179			314.79- 374.79	344.79
12.626	12.626 (1.335)	92	1220868			154.29- 214.29	184.29
204 1,2-Dichlorobenzene					CAS #: 95-50-1		
12.741	12.741 (1.347)	146	1281765	50.0000	50.000	80.00- 120.00	100.00
12.741	12.741 (1.347)	148	818290			33.84- 93.84	63.84
12.733	12.733 (1.346)	111	547687			12.73- 72.73	42.73
206 1,2-Dibromo-3-chloropropane					CAS #: 96-12-8		
13.600	13.600 (1.438)	157	800345	50.0000	50.000	80.00- 120.00	100.00
13.600	13.600 (1.438)	75	660103			52.48- 112.48	82.48
13.600	13.600 (1.438)	155	619570			47.41- 107.41	77.41
207 Dodecane					CAS #: 112-40-3		
13.801	13.801 (1.459)	57	2143839	61.8000	61.800	80.00- 120.00	100.00
13.801	13.801 (1.459)	43	1776648			52.87- 112.87	82.87
213 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
14.467	14.467 (1.529)	180	1233138	63.0000	63.000	80.00- 120.00	100.00
14.467	14.467 (1.529)	182	1175567			65.33- 125.33	95.33
215 Hexachlorobutadiene					CAS #: 87-68-3		
14.582	14.582 (1.541)	225	895709	64.4000	64.400	80.00- 120.00	100.00
14.582	14.582 (1.541)	223	565855			33.17- 93.17	63.17
216 Naphthalene					CAS #: 91-20-3		
14.768	14.768 (1.561)	128	306016	6.35000	6.350	80.00- 120.00	100.00
14.768	14.768 (1.561)	127	39402			0.00- 42.88	12.88
222 1,2,3-Trichlorobenzene					CAS #: 87-61-6		
15.069	15.069 (1.593)	180	1163980	66.6000	66.600	80.00- 120.00	100.00
15.069	15.069 (1.593)	182	1114530			65.75- 125.75	95.75
15.069	15.069 (1.593)	145	410098			5.23- 65.23	35.23

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p051908.d
Lab Smp Id: ICAL Level 7
Analysis Type: VOA
Quant Type: ISTD
Operator: LD
Method File: /chem/msdp.i/19MAY21.b/p21q0519a.m
Misc Info: 50ppbv (200ppbv)

Calibration Date: 19-MAY-2021
Calibration Time: 15:55
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	158810	95286	222334	158810	0.00
108 1,4-Difluorobenze	597103	358262	835944	597103	0.00
153 Chlorobenzene-d5	587747	352648	822846	587747	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.78	5.45	6.11	5.78	0.00
108 1,4-Difluorobenze	6.66	6.33	6.99	6.66	0.00
153 Chlorobenzene-d5	9.46	9.13	9.79	9.46	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msdp.i/19MAY21.b/p051908.d

Page 1

Date : 19-MAY-2021 15:55

Client ID:

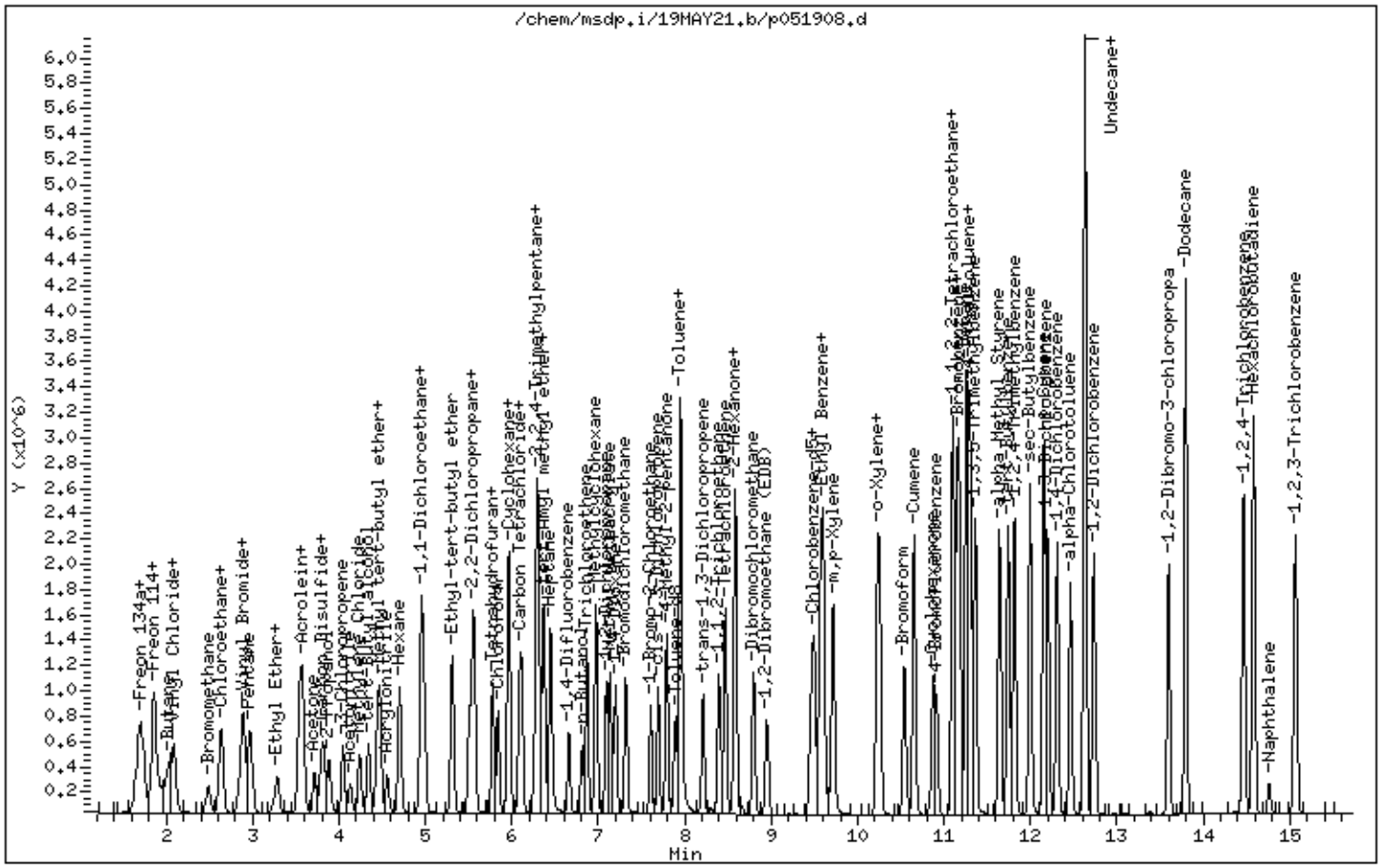
Instrument: msdp.i

Sample Info: 50mL 3018-2034

Operator: LD

Column phase: RTX-624

Column diameter: 0.25



US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/19MAY21.b/p051919.d
Lab Smp Id: ICAL Level 7
Inj Date : 19-MAY-2021 21:38
Operator : gh Inst ID: msdp.i
Smp Info : 50mL 3018-2013
Misc Info : 50ppbv (200ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/19MAY21.b/p21q0519a.m
Meth Date : 20-May-2021 09:48 lk8g Quant Type: ISTD
Cal Date : 19-MAY-2021 21:38 Cal File: p051919.d
Als bottle: 3 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT20spICAL.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 90 Bromochloromethane					CAS #: 74-97-5		
5.778	5.778 (1.000)	130	161689	25.0000		80.00- 120.00	100.00
5.778	5.778 (1.000)	128	124860			47.22- 107.22	77.22
5.778	5.778 (1.000)	49	289657			149.14- 209.14	179.14
* 108 1,4-Difluorobenzene					CAS #: 540-36-3		
6.659	6.659 (1.000)	114	604813	25.0000		80.00- 120.00	100.00
6.659	6.659 (1.000)	88	94059			0.00- 45.55	15.55
* 153 Chlorobenzene-d5					CAS #: 3114-55-4		
9.460	9.460 (1.000)	117	587682	25.0000		80.00- 120.00	100.00
9.460	9.460 (1.000)	82	320961			24.61- 84.61	54.61
3 Freon 143a					CAS #: 420-46-2		
1.590	1.590 (0.275)	65	175050	50.0000	50.000	80.00- 120.00	100.00
1.590	1.590 (0.275)	69	478765			243.50- 303.50	273.50
1.590	1.590 (0.275)	64	42119			0.00- 54.06	24.06
6 Propane					CAS #: 74-98-6		
1.674	1.674 (0.290)	43	126213	50.0000	50.000	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
6 Propane (continued)							
1.674	1.674 (0.290)	39	82019			34.98- 94.98	64.98
1.674	1.674 (0.290)	41	69691			25.22- 85.22	55.22
13 Freon 142b					CAS #: 75-68-3		
1.884	1.884 (0.326)	65	712387	50.0000	50.000	80.00- 120.00	100.00
1.884	1.884 (0.326)	45	212071			0.00- 59.77	29.77
36 1-Pentene					CAS #: 109-67-1		
2.906	2.906 (0.503)	55	479291	50.0000	50.000	80.00- 120.00	100.00
2.906	2.906 (0.503)	42	647860			105.17- 165.17	135.17
40 Freon 123a					CAS #: 354-23-4		
3.385	3.385 (0.586)	117	461487	50.0000	50.000	80.00- 120.00	100.00
3.378	3.378 (0.585)	67	621572			104.69- 164.69	134.69
41 Freon 123					CAS #: 306-83-2		
3.479	3.479 (0.602)	83	686787	50.0000	50.000	80.00- 120.00	100.00
3.479	3.479 (0.602)	133	143333			0.00- 50.87	20.87
3.479	3.479 (0.602)	85	453806			36.08- 96.08	66.08
55 Cyclopentene					CAS #: 142-29-0		
4.073	4.073 (0.705)	67	758990	50.0000	50.000	80.00- 120.00	100.00
4.073	4.073 (0.705)	68	279019			6.76- 66.76	36.76
4.073	4.073 (0.705)	53	209054			0.00- 57.54	27.54
56 Methyl Acetate					CAS #: 79-20-9		
4.073	4.073 (0.705)	43	885414	50.0000	50.000	80.00- 120.00	100.00
4.073	4.073 (0.705)	74	125122			0.00- 44.13	14.13
74 Chloroprene					CAS #: 126-99-8		
5.019	5.019 (0.869)	53	715451	50.0000	50.000	80.00- 120.00	100.00
5.019	5.019 (0.869)	88	280509			9.21- 69.21	39.21
5.019	5.019 (0.869)	50	173487			0.00- 54.25	24.25
75 1-Propanol					CAS #: 71-23-8		
5.083	5.083 (0.880)	59	98517	50.0000	50.000	80.00- 120.00	100.00
5.083	5.083 (0.880)	42	91848			63.23- 123.23	93.23
5.083	5.083 (0.880)	41	53925			24.74- 84.74	54.74
88 Methyl Acrylate					CAS #: 96-33-3		
5.620	5.620 (0.973)	55	911220	50.0000	50.000	80.00- 120.00	100.00
5.620	5.620 (0.973)	85	102793			0.00- 41.28	11.28
5.620	5.620 (0.973)	58	74910			0.00- 38.22	8.22
103 Isobutanol					CAS #: 78-83-1		
6.244	6.244 (1.081)	39	106882	50.0000	50.000	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
103 Isobutanol (continued)							
6.244	6.244 (1.081)	43	511089			448.18- 508.18	478.18
6.244	6.244 (1.081)	41	352703			299.99- 359.99	329.99
113 Ethyl acrylate					CAS #: 140-88-5		
6.938	6.938 (0.733)	99	67461	50.0000	50.000	80.00- 120.00	100.00
6.938	6.938 (0.733)	45	121394			149.95- 209.95	179.95
6.938	6.938 (0.733)	55	1267640			1849.07-1909.07	1879.07
115 2-Pentanone					CAS #: 107-87-9		
7.031	7.031 (0.743)	43	1498872	50.0000	50.000	80.00- 120.00	100.00
7.031	7.031 (0.743)	58	111516			0.00- 37.44	7.44
7.031	7.031 (0.743)	86	191499			0.00- 42.78	12.78
145 Butyl Acetate					CAS #: 123-86-4		
8.665	8.665 (1.301)	56	756724	50.0000	50.000	80.00- 120.00	100.00
8.665	8.665 (1.301)	73	220224			0.00- 59.10	29.10
8.657	8.657 (1.300)	43	1856227			215.30- 275.30	245.30
157 1,1,1,2-Tetrachloroethane					CAS #: 630-20-6		
9.596	9.596 (1.014)	131	672251	50.0000	50.000	80.00- 120.00	100.00
9.460	9.460 (1.000)	117	587682			57.42- 117.42	87.42
9.596	9.596 (1.014)	95	240014			5.70- 65.70	35.70
166 2-Heptanone					CAS #: 110-43-0		
10.362	10.362 (1.793)	58	1175492	50.0000	50.000	80.00- 120.00	100.00
10.362	10.362 (1.793)	43	1951662			136.03- 196.03	166.03
172 D-Limonene					CAS #: 5989-27-5		
12.089	12.089 (1.278)	68	923546	50.0000	50.000	80.00- 120.00	100.00
12.089	12.089 (1.278)	93	641066			39.41- 99.41	69.41
186 4-Chlorotoluene					CAS #: 106-43-4		
11.444	11.444 (1.210)	126	612826	50.0000	50.000	80.00- 120.00	100.00
11.444	11.444 (1.210)	91	1991813			295.02- 355.02	325.02
11.444	11.444 (1.210)	63	256306			11.82- 71.82	41.82
197 1,2,3-Trimethylbenzene					CAS #: 526-73-8		
12.318	12.318 (1.302)	120	901378	50.0000	50.000	80.00- 120.00	100.00
12.318	12.318 (1.302)	105	2004624			192.40- 252.40	222.40
12.318	12.318 (1.302)	77	222560			0.00- 54.69	24.69
205 Hexachloroethane					CAS #: 67-72-1		
12.970	12.970 (1.371)	201	436881	50.0000	50.000	80.00- 120.00	100.00
12.970	12.970 (1.371)	117	581027			102.99- 162.99	132.99

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
208 1,3,5-Trichlorobenzene					CAS #: 108-70-3		
13.758	13.758 (1.454)	180	1256168	50.0000	50.000	80.00- 120.00	100.00
13.758	13.758 (1.454)	182	1196432			65.24- 125.24	95.24
210 alpha-Pinene					CAS #: 80-56-8		
10.599	10.599 (1.120)	93	1358794	50.0000	50.000	80.00- 120.00	100.00
10.599	10.599 (1.120)	77	383320			0.00- 58.21	28.21
214 beta-Pinene					CAS #: 127-91-3		
11.422	11.422 (1.207)	93	1085058	50.0000	50.000	80.00- 120.00	100.00
11.444	11.444 (1.210)	91	1991813			153.57- 213.57	183.57

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p051919.d
Lab Smp Id: ICAL Level 7
Analysis Type: VOA
Quant Type: ISTD
Operator: gh
Method File: /chem/msdp.i/19MAY21.b/p21q0519a.m
Misc Info: 50ppbv (200ppbv)

Calibration Date: 19-MAY-2021
Calibration Time: 21:38
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	161689	97013	226365	161689	0.00
108 1,4-Difluorobenze	604813	362888	846738	604813	0.00
153 Chlorobenzene-d5	587682	352609	822755	587682	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.78	5.45	6.11	5.78	0.00
108 1,4-Difluorobenze	6.66	6.33	6.99	6.66	0.00
153 Chlorobenzene-d5	9.46	9.13	9.79	9.46	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msdp.i/19MAY21.b/p051919.d

Date : 19-MAY-2021 21:38

Client ID:

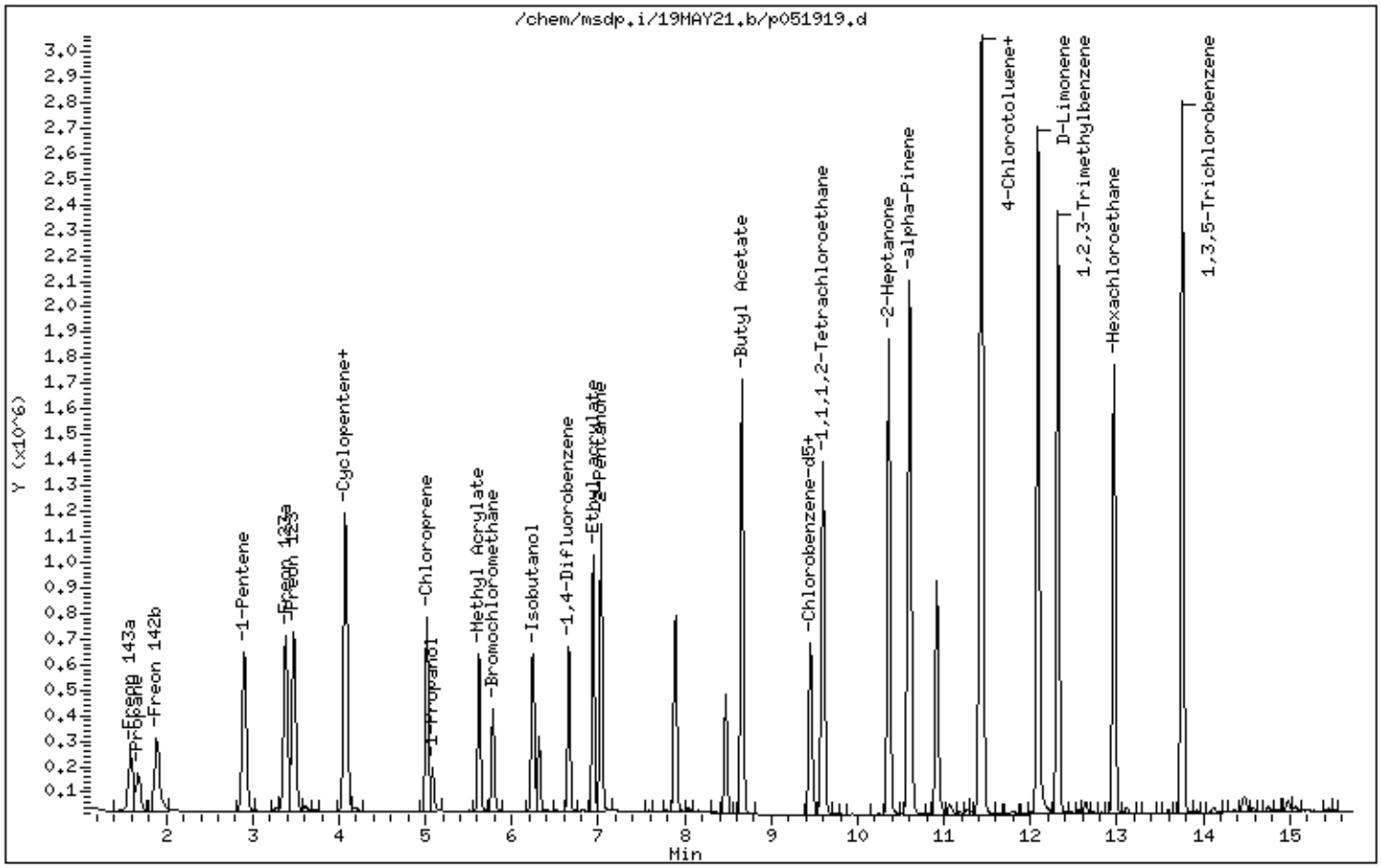
Instrument: msdp.i

Sample Info: 50mL 3018-2013

Operator: gh

Column phase: RTX-624

Column diameter: 0.25



US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/19MAY21.b/p051909.d
Lab Smp Id: ICAL Level 8
Inj Date : 19-MAY-2021 16:24
Operator : LD Inst ID: msdp.i
Smp Info : 100mL 3018-2034
Misc Info : 100ppbv (200ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/19MAY21.b/p21q0519a.m
Meth Date : 20-May-2021 09:50 lk8g Quant Type: ISTD
Cal Date : 19-MAY-2021 16:24 Cal File: p051909.d
Als bottle: 13 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT20ICAL.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
4 Freon 134a					CAS #: 811-97-2		
1.646	1.633 (0.285)	83	507565	100.000	105.61	80.00- 120.00	100.00
1.646	1.633 (0.285)	69	455041			59.44- 119.44	89.65
1.744	1.745 (0.302)	51	2268262			419.06- 479.06	446.89
5 Propylene					CAS #: 115-07-1		
1.674	1.675 (0.290)	41	698368	100.000	100.69	80.00- 120.00	100.00
1.674	1.675 (0.290)	42	460529			35.28- 95.28	65.94
1.674	1.675 (0.290)	39	475977			38.35- 98.35	68.16
7 1,1-Difluoroethane					CAS #: 75-37-6		
1.702	1.703 (0.295)	65	357088	100.000	101.44	80.00- 120.00	100.00
1.744	1.745 (0.302)	51	2268262			597.63- 657.63	635.21
1.702	1.703 (0.295)	47	231703			33.72- 93.72	64.89
8 Freon 12					CAS #: 75-71-8		
1.716	1.717 (0.297)	85	1452922	100.000	108.35	80.00- 120.00	100.00
1.716	1.717 (0.297)	87	469974			2.37- 62.37	32.35
9 Chlorodifluoromethane					CAS #: 75-45-6		
1.758	1.745 (0.304)	67	145754	100.000	109.07	80.00- 120.00	100.00

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
9 Chlorodifluoromethane (continued)							
1.744	1.745 (0.302)	51	2268262			1501.01-1561.01	1556.23
10 Freon 114					CAS #: 76-14-2		
1.856	1.856 (0.321)	135	1419953	100.000	103.69	80.00- 120.00	100.00
1.856	1.856 (0.321)	137	456158			2.30- 62.30	32.12
12 Isobutane					CAS #: 75-28-5		
1.870	1.870 (0.324)	43	1515676	100.000	98.575	80.00- 120.00	100.00
1.870	1.870 (0.324)	42	485596			2.44- 62.44	32.04
1.870	1.856 (0.324)	58	50044			0.00- 33.36	3.30
15 Chloromethane					CAS #: 74-87-3		
1.940	1.940 (0.336)	50	796816	100.000	95.542	80.00- 120.00	100.00
1.954	1.940 (0.338)	52	204373			0.00- 56.26	25.65
18 Butane					CAS #: 106-97-8		
2.039	2.025 (0.353)	58	180663	100.000	101.40	80.00- 120.00	100.00
2.039	2.025 (0.353)	43	1466054			823.29- 883.29	811.49
19 Vinyl Chloride					CAS #: 75-01-4		
2.075	2.068 (0.359)	62	918346	100.000	96.270	80.00- 120.00	100.00
2.075	2.068 (0.359)	64	270816			0.00- 59.69	29.49
20 1,3-Butadiene					CAS #: 106-99-0		
2.096	2.089 (0.363)	54	850684	100.000	112.06	80.00- 120.00	100.00
2.096	2.089 (0.363)	39	739010			52.37- 112.37	86.87
24 Bromomethane					CAS #: 74-83-9		
2.483	2.483 (0.430)	94	572011	100.000	92.015	80.00- 120.00	100.00
2.483	2.483 (0.430)	96	535822			64.07- 124.07	93.67
30 Chloroethane					CAS #: 75-00-3		
2.612	2.612 (0.452)	64	349804	100.000	102.90	80.00- 120.00	100.00
2.612	2.612 (0.452)	66	100650			0.04- 60.04	28.77
2.612	2.612 (0.452)	49	117019			4.54- 64.54	33.45
31 Isopentane					CAS #: 78-78-4		
2.641	2.634 (0.457)	43	1040896	100.000	100.15	80.00- 120.00	100.00
2.641	2.634 (0.457)	57	666459			34.12- 94.12	64.03
32 Vinyl Bromide					CAS #: 593-60-2		
2.848	2.841 (0.493)	106	582384	100.000	103.68	80.00- 120.00	100.00
2.848	2.841 (0.493)	108	563942			69.27- 129.27	96.83
33 Freon 11					CAS #: 75-69-4		
2.891	2.884 (0.500)	101	1487386	100.000	103.14	80.00- 120.00	100.00

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
33 Freon 11 (continued)							
2.891	2.884 (0.500)	103	967038			34.72- 94.72	65.02
34 Dichlorofluoromethane					CAS #: 75-43-4		
2.898	2.899 (0.502)	67	1298135	100.000	105.01	80.00- 120.00	100.00
2.898	2.899 (0.502)	69	401988			0.84- 60.84	30.97
35 Pentane					CAS #: 109-66-0		
2.970	2.970 (0.514)	43	1683232	100.000	99.258	80.00- 120.00	100.00
2.970	2.970 (0.514)	57	245789			0.00- 44.98	14.60
2.970	2.970 (0.514)	72	121307			0.00- 37.39	7.21
38 Ethyl Ether					CAS #: 60-29-7		
3.285	3.285 (0.569)	74	298105	100.000	105.37	80.00- 120.00	100.00
3.285	3.285 (0.569)	59	576501			163.46- 223.46	193.39
3.285	3.285 (0.569)	45	836034			250.40- 310.40	280.45
39 Ethanol					CAS #: 64-17-5		
3.242	3.242 (0.561)	46	149584	100.000	99.460	80.00- 120.00	100.00
3.285	3.242 (0.569)	45	832557			511.19- 571.19	556.58
42 Acrolein					CAS #: 107-02-8		
3.536	3.529 (0.612)	55	266909	100.000	102.94	80.00- 120.00	100.00
3.536	3.529 (0.612)	56	376803			111.10- 171.10	141.17
43 Freon 113					CAS #: 76-13-1		
3.550	3.550 (0.614)	151	1092200	100.000	101.26	80.00- 120.00	100.00
3.557	3.550 (0.616)	153	689565			33.56- 93.56	63.14
3.550	3.550 (0.614)	101	1295372			89.21- 149.21	118.60
44 1,1-Dichloroethene					CAS #: 75-35-4		
3.586	3.579 (0.621)	96	638130	100.000	102.22	80.00- 120.00	100.00
3.586	3.579 (0.621)	98	399466			34.02- 94.02	62.60
3.586	3.579 (0.621)	61	1261088			168.77- 228.77	197.62
47 Acetone					CAS #: 67-64-1		
3.715	3.708 (0.643)	58	407743	100.000	103.12	80.00- 120.00	100.00
3.715	3.708 (0.643)	43	1336506			302.95- 362.95	327.78
48 Carbon Disulfide					CAS #: 75-15-0		
3.830	3.823 (0.663)	76	1723104	100.000	102.46	80.00- 120.00	100.00
49 Iodomethane					CAS #: 74-88-4		
3.794	3.794 (0.657)	142	1438092	100.000	135.14	80.00- 120.00	100.00
3.794	3.794 (0.657)	127	601035			12.22- 72.22	41.79

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
52 2-Propanol					CAS #: 67-63-0		
3.887	3.887 (0.673)	45	1661934	100.000	104.21	80.00- 120.00	100.00
3.887	3.887 (0.673)	43	292411			0.00- 47.19	17.59
54 3-Chloropropene					CAS #: 107-05-1		
4.052	4.052 (0.701)	76	292429	100.000	102.76	80.00- 120.00	100.00
4.052	4.052 (0.701)	41	1196303			396.19- 456.19	409.09
57 Acetonitrile					CAS #: 75-05-8		
4.123	4.123 (0.714)	41	798509	100.000	108.94	80.00- 120.00	100.00
4.123	4.123 (0.714)	40	401874			20.95- 80.95	50.33
4.123	4.123 (0.714)	38	88300			0.00- 41.17	11.06
59 Methylene Chloride					CAS #: 75-09-2		
4.238	4.238 (0.733)	49	1074098	100.000	105.04	80.00- 120.00	100.00
4.238	4.238 (0.733)	84	556924			22.03- 82.03	51.85
4.238	4.238 (0.733)	51	323217			0.18- 60.18	30.09
62 tert-Butyl alcohol					CAS #: 75-65-0		
4.338	4.338 (0.751)	59	1858636	100.000	99.052	80.00- 120.00	100.00
4.338	4.338 (0.751)	41	385487			0.00- 51.11	20.74
4.338	4.338 (0.751)	57	191013			0.00- 40.49	10.28
63 Methyl tert-butyl ether					CAS #: 1634-04-4		
4.446	4.446 (0.769)	73	1848968	100.000	98.795	80.00- 120.00	100.00
4.446	4.446 (0.769)	57	604553			3.10- 63.10	32.70
4.446	4.446 (0.769)	41	579143			1.28- 61.28	31.32
64 trans-1,2-Dichloroethene					CAS #: 156-60-5		
4.481	4.482 (0.776)	98	433306	100.000	102.86	80.00- 120.00	100.00
4.481	4.482 (0.776)	61	1236426			255.84- 315.84	285.35
4.481	4.482 (0.776)	96	693293			127.59- 187.59	160.00
66 Acrylonitrile					CAS #: 107-13-1		
4.560	4.560 (0.789)	52	596989	100.000	99.669	80.00- 120.00	100.00
4.560	4.560 (0.789)	53	715968			88.05- 148.05	119.93
67 Hexane					CAS #: 110-54-3		
4.696	4.697 (0.813)	57	1534457	100.000	103.86	80.00- 120.00	100.00
4.696	4.697 (0.813)	43	1029510			37.52- 97.52	67.09
4.696	4.697 (0.813)	86	176385			0.00- 41.48	11.49
71 1,1-Dichloroethane					CAS #: 75-34-3		
4.969	4.962 (0.860)	63	1364098	100.000	104.66	80.00- 120.00	100.00
4.969	4.962 (0.860)	65	405911			0.00- 59.70	29.76

				AMOUNTS				
					CAL-AMT	ON-COL		
	RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
	72 Isopropyl ether					CAS #: 108-20-3		
	4.947	4.954 (0.856)	45	3520699	100.000	101.33	80.00- 120.00	100.00
	4.947	4.954 (0.856)	87	644730			0.00- 48.18	18.31
	4.947	4.954 (0.856)	59	358329			0.00- 40.15	10.18
	73 Vinyl Acetate					CAS #: 108-05-4		
	4.997	4.997 (0.865)	86	174113	100.000	107.01	80.00- 120.00	100.00
	4.990	4.997 (0.864)	43	3073069			2432.48-2492.48	1764.99
	79 Ethyl-tert-butyl ether					CAS #: 637-92-3		
	5.305	5.305 (0.918)	59	3038101	100.000	100.85	80.00- 120.00	100.00
	5.305	5.305 (0.918)	87	938894			1.00- 61.00	30.90
	5.305	5.305 (0.918)	41	568486			0.00- 48.73	18.71
	84 2,2-Dichloropropane					CAS #: 594-20-7		
	5.506	5.506 (0.953)	77	1178409	100.000	103.59	80.00- 120.00	100.00
	5.506	5.506 (0.953)	79	375834			2.28- 62.28	31.89
	5.513	5.506 (0.954)	97	287766			0.00- 53.93	24.42
	85 cis-1,2-Dichloroethene					CAS #: 156-59-2		
	5.549	5.549 (0.960)	98	473987	100.000	109.86	80.00- 120.00	100.00
	5.549	5.549 (0.960)	96	736483			125.75- 185.75	155.38
	5.549	5.549 (0.960)	61	1694585			332.40- 392.40	357.52
	86 2-Butanone					CAS #: 78-93-3		
	5.556	5.556 (0.962)	72	357150	100.000	104.90	80.00- 120.00	100.00
	5.563	5.556 (0.963)	43	4378918			1214.50-1274.50	1226.07
	5.556	5.556 (0.962)	57	154664			14.68- 74.68	43.31
	87 Ethyl Acetate					CAS #: 141-78-6		
	5.570	5.570 (0.964)	45	353395	100.000	104.48	80.00- 120.00	100.00
	5.549	5.549 (0.960)	61	1695217			452.04- 512.04	479.69
	5.570	5.570 (0.964)	70	189420			22.77- 82.77	53.60
	89 Tetrahydrofuran					CAS #: 109-99-9		
	5.771	5.771 (0.999)	42	1189052	100.000	103.31	80.00- 120.00	100.00
	5.771	5.771 (0.999)	71	309814			0.00- 55.82	26.06
	5.771	5.771 (0.999)	72	335384			0.00- 57.59	28.21
*	90 Bromochloromethane					CAS #: 74-97-5		
	5.778	5.778 (1.000)	130	152805	25.0000		80.00- 120.00	100.00
	5.778	5.778 (1.000)	128	121664			48.23- 108.23	79.62
	5.778	5.778 (1.000)	49	281698			150.57- 210.57	184.35
	92 Chloroform					CAS #: 67-66-3		
	5.835	5.835 (1.010)	83	1415975	100.000	107.68	80.00- 120.00	100.00

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
92 Chloroform (continued)							
5.835	5.835 (1.010)	85	915346			34.70- 94.70	64.64
94 Cyclohexane					CAS #: 110-82-7		
5.957	5.957 (1.031)	84	944762	100.000	101.07	80.00- 120.00	100.00
5.957	5.957 (1.031)	56	1666010			142.57- 202.57	176.34
5.957	5.957 (1.031)	41	886450			62.09- 122.09	93.83
96 1,1,1-Trichloroethane					CAS #: 71-55-6		
5.971	5.972 (1.033)	97	1485005	100.000	100.30	80.00- 120.00	100.00
5.971	5.972 (1.033)	99	948874			34.02- 94.02	63.90
97 Carbon Tetrachloride					CAS #: 56-23-5		
6.086	6.086 (1.053)	119	1499358	100.000	106.30	80.00- 120.00	100.00
6.086	6.086 (1.053)	117	1503563			70.64- 130.64	100.28
99 1,1-Dichloropropene					CAS #: 563-58-6		
6.115	6.115 (0.918)	110	416114	100.000	102.27	80.00- 120.00	100.00
6.115	6.115 (0.918)	75	1049030			226.85- 286.85	252.10
101 2,2,4-Trimethylpentane					CAS #: 540-84-1		
6.279	6.280 (1.087)	57	5314941	100.000	102.00	80.00- 120.00	100.00
6.279	6.280 (1.087)	56	1735895			2.24- 62.24	32.66
6.279	6.280 (1.087)	41	1349070			0.00- 54.39	25.38
102 Benzene					CAS #: 71-43-2		
6.301	6.301 (0.946)	78	2026776	100.000	103.01	80.00- 120.00	100.00
6.301	6.301 (0.946)	77	474028			0.00- 52.90	23.39
$ 104 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
6.308	6.308 (1.092)	65	220685	25.0000	26.504	80.00- 120.00	100.00
6.308	6.308 (1.092)	67	141968			27.21- 87.21	64.33
105 tert-Amyl methyl ether					CAS #: 994-05-8		
6.358	6.358 (0.955)	87	547673	100.000	97.366	80.00- 120.00	100.00
6.358	6.358 (0.955)	73	2227568			372.79- 432.79	406.73
6.358	6.358 (0.955)	55	768756			112.09- 172.09	140.37
106 1,2-Dichloroethane					CAS #: 107-06-2		
6.380	6.380 (0.958)	62	1080056	100.000	103.85	80.00- 120.00	100.00
6.380	6.380 (0.958)	64	332034			0.79- 60.79	30.74
107 Heptane					CAS #: 142-82-5		
6.444	6.444 (0.968)	71	786728	100.000	101.45	80.00- 120.00	100.00
6.444	6.444 (0.968)	43	2022288			226.53- 286.53	257.05
6.444	6.444 (0.968)	57	1020722			100.85- 160.85	129.74

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
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* 108 1,4-Difluorobenzene					CAS #: 540-36-3		
6.659	6.659 (1.000)	114	599259	25.0000		80.00- 120.00	100.00
6.659	6.659 (1.000)	88	96032			0.00- 45.71	16.03
110 n-Butanol					CAS #: 71-36-3		
6.809	6.810 (1.023)	56	750083	100.000	104.92	80.00- 120.00	100.00
6.809	6.810 (1.023)	41	530236			40.99- 100.99	70.69
6.809	6.810 (1.023)	43	429051			27.38- 87.38	57.20
111 Trichloroethene					CAS #: 79-01-6		
6.867	6.867 (1.031)	95	997780	100.000	104.77	80.00- 120.00	100.00
6.867	6.867 (1.031)	130	1060416			76.29- 136.29	106.28
6.867	6.867 (1.031)	97	630792			33.63- 93.63	63.22
114 1,2-Dichloropropane					CAS #: 78-87-5		
7.089	7.089 (1.065)	63	1008198	100.000	100.30	80.00- 120.00	100.00
7.089	7.089 (1.065)	62	717137			41.07- 101.07	71.13
7.096	7.089 (1.066)	41	522377			22.53- 82.53	51.81
116 Methyl Methacrylate					CAS #: 80-62-6		
7.139	7.132 (0.755)	69	824440	100.000	101.96	80.00- 120.00	100.00
7.132	7.132 (0.754)	41	1710649			179.84- 239.84	207.49
7.139	7.139 (0.755)	100	331918			9.59- 69.59	40.26
117 1,4-Dioxane					CAS #: 123-91-1		
7.175	7.175 (1.077)	88	528029	100.000	97.653	80.00- 120.00	100.00
7.175	7.175 (1.077)	58	524400			68.28- 128.28	99.31
7.175	7.175 (1.077)	57	177216			2.68- 62.68	33.56
118 Dibromomethane					CAS #: 74-95-3		
7.203	7.204 (0.761)	174	928250	100.000	104.93	80.00- 120.00	100.00
7.203	7.204 (0.761)	93	831541			60.09- 120.09	89.58
7.203	7.204 (0.761)	95	722804			48.38- 108.38	77.87
122 Bromodichloromethane					CAS #: 75-27-4		
7.318	7.318 (1.099)	83	1567843	100.000	105.12	80.00- 120.00	100.00
7.318	7.318 (1.099)	85	1011256			35.24- 95.24	64.50
126 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.690	7.691 (1.155)	75	1310676	100.000	104.92	80.00- 120.00	100.00
7.690	7.691 (1.155)	77	416599			2.42- 62.42	31.79
7.690	7.691 (1.155)	39	879596			37.16- 97.16	67.11
127 Methylcyclohexane					CAS #: 108-87-2		
6.974	6.974 (1.047)	83	1373843	100.000	98.785	80.00- 120.00	100.00
6.974	6.974 (1.047)	98	639936			15.78- 75.78	46.58

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
127 Methylcyclohexane (continued)							
6.974	6.974 (1.047)	55	1577222			84.64- 144.64	114.80
131 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.791	7.791 (1.170)	58	990523	100.000	97.755	80.00- 120.00	100.00
7.791	7.791 (1.170)	43	2685952			242.35- 302.35	271.17
7.798	7.791 (1.171)	85	326227			3.24- 63.24	32.93
$ 134 Toluene-d8					CAS #: 2037-26-5		
7.891	7.891 (1.185)	98	653351	25.0000	25.095	80.00- 120.00	100.00
7.891	7.891 (1.185)	70	69659			0.00- 40.44	10.66
7.891	7.891 (1.185)	100	427970			34.95- 94.95	65.50
137 Toluene					CAS #: 108-88-3		
7.948	7.949 (1.194)	91	2719947	100.000	99.602	80.00- 120.00	100.00
7.948	7.949 (1.194)	92	1593607			28.38- 88.38	58.59
136 Octane					CAS #: 111-65-9		
7.948	7.949 (1.194)	57	1143310	100.000	99.301	80.00- 120.00	100.00
7.948	7.949 (1.194)	85	970463			56.00- 116.00	84.88
7.948	7.949 (1.194)	43	2966309			228.66- 288.66	259.45
139 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
8.213	8.214 (0.868)	75	1224849	100.000	104.91	80.00- 120.00	100.00
8.213	8.214 (0.868)	77	387990			1.24- 61.24	31.68
8.213	8.214 (0.868)	39	804536			34.11- 94.11	65.68
141 1,1,2-Trichloroethane					CAS #: 79-00-5		
8.400	8.400 (0.888)	97	969495	100.000	103.06	80.00- 120.00	100.00
8.400	8.400 (0.888)	99	600278			31.96- 91.96	61.92
8.400	8.400 (0.888)	83	805643			52.93- 112.93	83.10
142 Tetrachloroethene					CAS #: 127-18-4		
8.464	8.464 (0.895)	166	1365527	100.000	99.832	80.00- 120.00	100.00
8.464	8.464 (0.895)	129	1069381			47.84- 107.84	78.31
8.464	8.464 (0.895)	131	1033508			45.29- 105.29	75.69
143 2-Hexanone					CAS #: 591-78-6		
8.586	8.586 (0.908)	58	1368856	100.000	99.686	80.00- 120.00	100.00
8.586	8.586 (0.908)	43	2631318			162.87- 222.87	192.23
8.586	8.586 (0.908)	100	212248			0.00- 45.94	15.51
144 1,3-Dichloropropane					CAS #: 142-28-9		
8.579	8.579 (1.288)	76	1348288	100.000	103.10	80.00- 120.00	100.00
8.579	8.579 (1.288)	41	1683093			94.99- 154.99	124.83
8.579	8.579 (1.288)	78	436936			2.05- 62.05	32.41

				AMOUNTS				
					CAL-AMT	ON-COL		
	RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
	146 Dibromochloromethane					CAS #: 124-48-1		
	8.801	8.801 (0.930)	129	1870111	100.000	103.77	80.00- 120.00	100.00
	8.801	8.801 (0.930)	127	1452482			47.45- 107.45	77.67
	148 1,2-Dibromoethane (EDB)					CAS #: 106-93-4		
	8.951	8.951 (0.946)	107	1591018	100.000	102.80	80.00- 120.00	100.00
	8.951	8.951 (0.946)	109	1499795			64.21- 124.21	94.27
	151 1-Bromo-2-Chloroethane					CAS #: 107-04-0		
	7.605	7.605 (1.142)	63	1915471	100.000	103.43	80.00- 120.00	100.00
	7.605	7.605 (1.142)	65	566303			0.00- 59.64	29.56
	7.605	7.605 (1.142)	144	182840			0.00- 39.63	9.55
*	153 Chlorobenzene-d5					CAS #: 3114-55-4		
	9.460	9.460 (1.000)	117	590210	25.0000		80.00- 120.00	100.00
	9.460	9.460 (1.000)	82	323727			23.78- 83.78	54.85
	154 Chlorobenzene					CAS #: 108-90-7		
	9.496	9.496 (1.004)	112	2370958	100.000	101.53	80.00- 120.00	100.00
	9.496	9.496 (1.004)	114	756993			1.74- 61.74	31.93
	9.496	9.496 (1.004)	77	1286889			25.04- 85.04	54.28
	155 Ethyl Benzene					CAS #: 100-41-4		
	9.567	9.567 (1.011)	106	1215808	100.000	99.229	80.00- 120.00	100.00
	9.567	9.567 (1.011)	91	3709578			273.74- 333.74	305.11
	156 Nonane					CAS #: 111-84-2		
	9.603	9.596 (1.015)	43	3087905	100.000	97.458	80.00- 120.00	100.00
	9.603	9.603 (1.015)	57	2613991			54.16- 114.16	84.65
	9.603	9.603 (1.015)	85	738081			0.00- 53.90	23.90
	158 m,p-Xylene					CAS #: 108-38-3		
	9.718	9.718 (1.027)	106	1495472	100.000	98.126	80.00- 120.00	100.00
	9.718	9.718 (1.027)	91	2934052			163.73- 223.73	196.20
	164 o-Xylene					CAS #: 95-47-6		
	10.226	10.226 (1.081)	106	1448581	100.000	98.124	80.00- 120.00	100.00
	10.226	10.226 (1.081)	91	2977601			177.45- 237.45	205.55
	165 Styrene					CAS #: 100-42-5		
	10.255	10.255 (1.084)	104	2465052	100.000	98.384	80.00- 120.00	100.00
	10.255	10.255 (1.084)	78	1179971			17.88- 77.88	47.87
	167 Bromoform					CAS #: 75-25-2		
	10.549	10.542 (1.115)	173	1837525	100.000	104.18	80.00- 120.00	100.00
	10.541	10.542 (1.114)	171	942585			21.25- 81.25	51.30

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
168 Cumene					CAS #: 98-82-8		
10.649	10.649 (1.126)	105	4567679	100.000	98.637	80.00- 120.00	100.00
10.649	10.649 (1.126)	120	1306308			0.00- 58.52	28.60
10.649	10.649 (1.126)	51	589542			0.00- 43.00	12.91
169 Cyclohexanone					CAS #: 108-94-1		
10.871	10.871 (1.149)	55	1596477	100.000	95.938	80.00- 120.00	100.00
10.871	10.871 (1.149)	98	513572			1.94- 61.94	32.17
10.871	10.871 (1.149)	42	1073939			37.89- 97.89	67.27
$ 170 4-Bromofluorobenzene					CAS #: 460-00-4		
10.921	10.921 (1.154)	174	381266	25.0000	25.244	80.00- 120.00	100.00
10.921	10.921 (1.154)	95	486727			95.92- 155.92	127.66
10.921	10.921 (1.154)	176	367158			66.89- 126.89	96.30
175 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
11.107	11.100 (1.174)	83	2228280	100.000	98.820	80.00- 120.00	100.00
11.107	11.100 (1.174)	85	1439832			35.20- 95.20	64.62
177 Bromobenzene					CAS #: 108-86-1		
11.107	11.107 (1.174)	156	1426381	100.000	101.78	80.00- 120.00	100.00
11.107	11.107 (1.174)	158	1394001			67.21- 127.21	97.73
11.179	11.179 (1.182)	77	841614			29.02- 89.02	59.00
178 Propylbenzene					CAS #: 103-65-1		
11.150	11.150 (1.179)	120	1347671	100.000	98.184	80.00- 120.00	100.00
11.150	11.150 (1.179)	91	5312611			366.49- 426.49	394.21
11.150	11.150 (1.179)	105	203289			0.00- 44.85	15.08
179 1,2,3-Trichloropropane					CAS #: 96-18-4		
11.179	11.179 (1.182)	110	686203	100.000	96.347	80.00- 120.00	100.00
11.179	11.179 (1.182)	75	2133287			280.55- 340.55	310.88
11.100	11.100 (1.173)	61	307567			15.49- 75.49	44.82
181 trans-1,4-Dichloro-2-butene					CAS #: 110-57-6		
11.179	11.179 (1.182)	53	476707	100.000	101.28	80.00- 120.00	100.00
11.179	11.179 (1.182)	89	367391			49.11- 109.11	77.07
11.179	11.179 (1.182)	75	2133287			426.44- 486.44	447.50
182 Decane					CAS #: 124-18-5		
11.251	11.251 (1.189)	57	3243150	100.000	88.689	80.00- 120.00	100.00
11.258	11.251 (1.190)	71	905505			0.00- 57.66	27.92
11.258	11.258 (1.190)	142	133433			0.00- 34.09	4.11
183 4-Ethyltoluene					CAS #: 622-96-8		
11.286	11.287 (1.193)	120	1428430	100.000	96.809	80.00- 120.00	100.00

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE		RATIO
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183 4-Ethyltoluene (continued)								
11.286	11.287 (1.193)	105	4478546			284.55- 344.55		313.53
184 2-Chlorotoluene					CAS #: 95-49-8			
11.315	11.308 (1.196)	126	1126349	100.000	96.991	80.00- 120.00		100.00
11.308	11.308 (1.195)	91	3926471			315.17- 375.17		348.60
11.301	11.301 (1.195)	65	571555			21.55- 81.55		50.74
185 1,3,5-Trimethylbenzene					CAS #: 108-67-8			
11.365	11.365 (1.201)	120	2029709	100.000	99.067	80.00- 120.00		100.00
11.365	11.365 (1.201)	105	3958269			164.93- 224.93		195.02
188 alpha Methyl Styrene					CAS #: 98-83-9			
11.644	11.645 (1.231)	118	2053068	100.000	99.954	80.00- 120.00		100.00
11.644	11.645 (1.231)	103	1126967			25.30- 85.30		54.89
189 tert-Butylbenzene					CAS #: 98-06-6			
11.738	11.738 (1.241)	119	3869191	100.000	100.90	80.00- 120.00		100.00
11.745	11.738 (1.242)	134	937426			0.00- 54.25		24.23
11.738	11.738 (1.241)	91	2366627			31.27- 91.27		61.17
190 1,2,4-Trimethylbenzene					CAS #: 95-63-6			
11.816	11.817 (1.249)	105	3825889	100.000	98.524	80.00- 120.00		100.00
11.816	11.817 (1.249)	120	1877483			19.05- 79.05		49.07
192 sec-Butylbenzene					CAS #: 135-98-8			
11.995	11.996 (1.268)	134	1188712	100.000	99.702	80.00- 120.00		100.00
11.995	11.996 (1.268)	105	5589774			437.55- 497.55		470.24
11.995	11.996 (1.268)	91	846180			40.76- 100.76		71.18
194 p-Cymene					CAS #: 99-87-6			
12.160	12.160 (1.285)	119	5211679	100.000	99.223	80.00- 120.00		100.00
12.160	12.160 (1.285)	134	1335569			0.00- 55.54		25.63
12.160	12.153 (1.285)	91	1113414			0.00- 51.48		21.36
195 1,3-Dichlorobenzene					CAS #: 541-73-1			
12.203	12.196 (1.290)	146	2614617	100.000	98.021	80.00- 120.00		100.00
12.203	12.196 (1.290)	148	1681191			33.21- 93.21		64.30
12.196	12.196 (1.289)	111	1089961			11.31- 71.31		41.69
196 1,4-Dichlorobenzene					CAS #: 106-46-7			
12.311	12.311 (1.301)	146	2681111	100.000	99.901	80.00- 120.00		100.00
12.311	12.311 (1.301)	148	1693939			33.90- 93.90		63.18
12.311	12.311 (1.301)	111	1052991			9.45- 69.45		39.27
199 alpha-Chlorotoluene					CAS #: 100-44-7			
12.461	12.461 (1.317)	91	3733206	100.000	101.62	80.00- 120.00		100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
199 alpha-Chlorotoluene (continued)							
12.461	12.461 (1.317)	126	855205			0.00- 53.26	22.91
201 Undecane					CAS #: 1120-21-4		
12.640	12.640 (1.336)	57	3992563	100.000	94.355	80.00- 120.00	100.00
12.640	12.640 (1.336)	43	3525819			58.12- 118.12	88.31
202 Butylbenzene					CAS #: 104-51-8		
12.626	12.626 (1.335)	134	1274791	100.000	95.075	80.00- 120.00	100.00
12.626	12.626 (1.335)	91	4476615			314.79- 374.79	351.16
12.626	12.626 (1.335)	92	2399035			154.29- 214.29	188.19
204 1,2-Dichlorobenzene					CAS #: 95-50-1		
12.733	12.741 (1.346)	146	2533352	100.000	97.467	80.00- 120.00	100.00
12.733	12.741 (1.346)	148	1616747			33.84- 93.84	63.82
12.733	12.741 (1.346)	111	1075764			12.73- 72.73	42.46
206 1,2-Dibromo-3-chloropropane					CAS #: 96-12-8		
13.600	13.600 (1.438)	157	1585272	100.000	100.82	80.00- 120.00	100.00
13.600	13.600 (1.438)	75	1323143			52.48- 112.48	83.46
13.600	13.600 (1.438)	155	1237839			47.41- 107.41	78.08
207 Dodecane					CAS #: 112-40-3		
13.801	13.801 (1.459)	57	4416932	124.000	138.94	80.00- 120.00	100.00
13.801	13.801 (1.459)	43	3610956			52.87- 112.87	81.75
213 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
14.467	14.467 (1.529)	180	2488736	126.000	130.48	80.00- 120.00	100.00
14.467	14.467 (1.529)	182	2388833			65.33- 125.33	95.99
215 Hexachlorobutadiene					CAS #: 87-68-3		
14.581	14.582 (1.541)	225	1826473	129.000	136.64	80.00- 120.00	100.00
14.581	14.582 (1.541)	223	1154987			33.17- 93.17	63.24
216 Naphthalene					CAS #: 91-20-3		
14.768	14.768 (1.561)	128	617447	12.7000	12.602	80.00- 120.00	100.00
14.760	14.768 (1.560)	127	78355			0.00- 42.88	12.69
222 1,2,3-Trichlorobenzene					CAS #: 87-61-6		
15.068	15.069 (1.593)	180	2380079	133.000	141.78	80.00- 120.00	100.00
15.068	15.069 (1.593)	182	2269705			65.75- 125.75	95.36
15.061	15.069 (1.592)	145	846452			5.23- 65.23	35.56

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p051909.d
Lab Smp Id: ICAL Level 8
Analysis Type: VOA
Quant Type: ISTD
Operator: LD
Method File: /chem/msdp.i/19MAY21.b/p21q0519a.m
Misc Info: 100ppbv (200ppbv)

Calibration Date: 19-MAY-2021
Calibration Time: 15:55
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	158810	95286	222334	152805	-3.78
108 1,4-Difluorobenze	597103	358262	835944	599259	0.36
153 Chlorobenzene-d5	587747	352648	822846	590210	0.42

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.78	5.45	6.11	5.78	-0.00
108 1,4-Difluorobenze	6.66	6.33	6.99	6.66	-0.00
153 Chlorobenzene-d5	9.46	9.13	9.79	9.46	-0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msdp.i/19MAY21.b/p051909.d

Page 1

Date : 19-MAY-2021 16:24

Client ID:

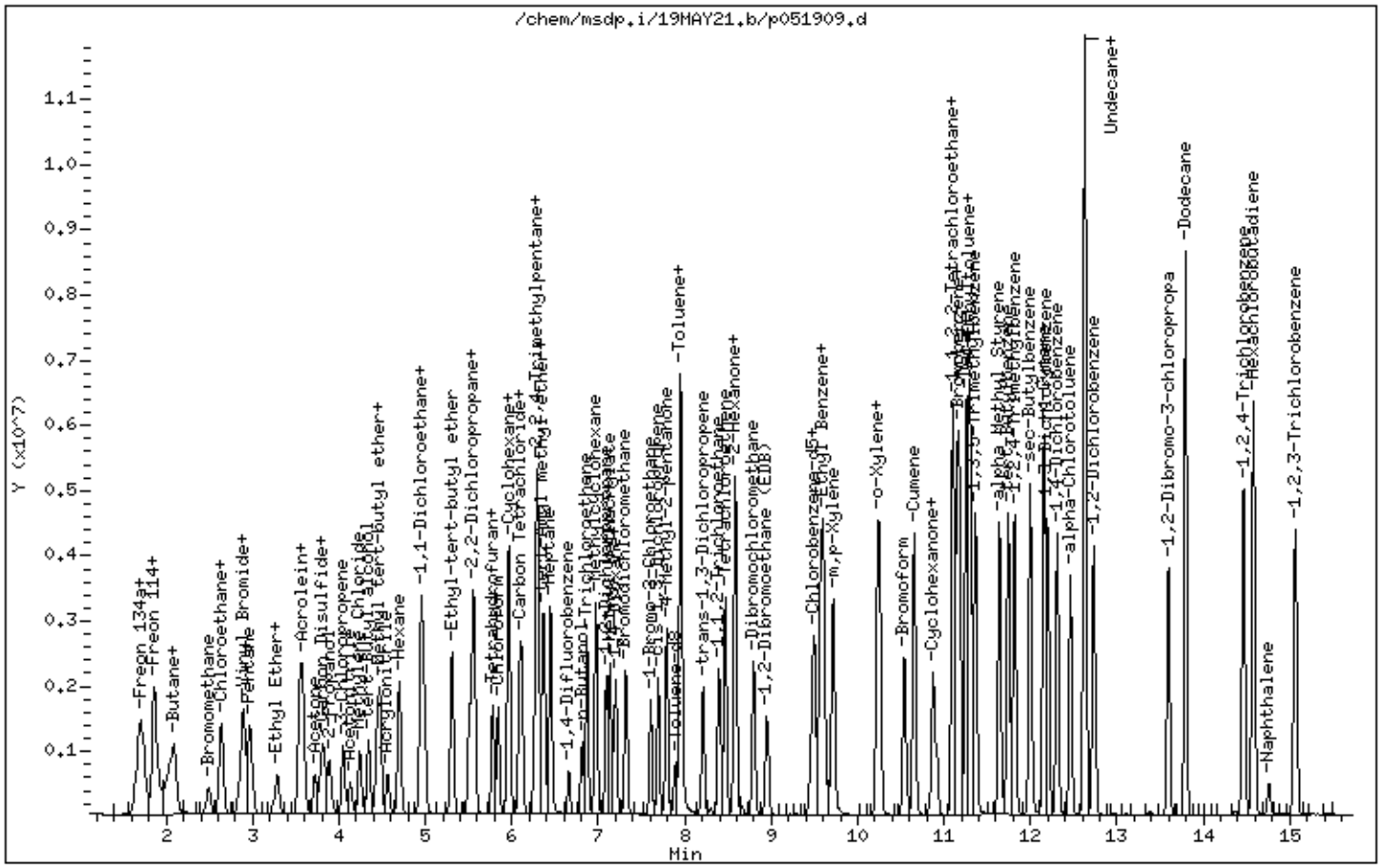
Instrument: msdp.i

Sample Info: 100mL 3018-2034

Operator: LD

Column phase: RTX-624

Column diameter: 0.25



US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/19MAY21.b/p051920.d
Lab Smp Id: ICAL Level 8
Inj Date : 19-MAY-2021 22:07
Operator : gh Inst ID: msdp.i
Smp Info : 100mL 3018-2013
Misc Info : 100ppbv (200ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/19MAY21.b/p21q0519a.m
Meth Date : 20-May-2021 09:50 lk8g Quant Type: ISTD
Cal Date : 19-MAY-2021 22:07 Cal File: p051920.d
Als bottle: 3 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT20spICAL.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

					AMOUNTS			
					CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE		(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========		=======	=======	==========	=====
* 90 Bromochloromethane						CAS #: 74-97-5		
5.778	5.778 (1.000)	130	157260	25.0000			80.00- 120.00	100.00
5.778	5.778 (1.000)	128	127325				48.23- 108.23	80.96
5.778	5.778 (1.000)	49	290406				150.57- 210.57	184.67
* 108 1,4-Difluorobenzene						CAS #: 540-36-3		
6.659	6.659 (1.000)	114	611896	25.0000			80.00- 120.00	100.00
6.659	6.659 (1.000)	88	94534				0.00- 45.71	15.45
* 153 Chlorobenzene-d5						CAS #: 3114-55-4		
9.460	9.460 (1.000)	117	605655	25.0000			80.00- 120.00	100.00
9.460	9.460 (1.000)	82	331071				23.78- 83.78	54.66
3 Freon 143a						CAS #: 420-46-2		
1.590	1.590 (0.275)	65	338792	100.000	105.77		80.00- 120.00	100.00
1.590	1.590 (0.275)	69	923313				243.50- 303.50	272.53
1.590	1.590 (0.275)	64	80203				0.00- 54.06	23.67
6 Propane						CAS #: 74-98-6		
1.674	1.674 (0.290)	43	269102	100.000	96.261		80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
6 Propane (continued)							
1.674	1.674 (0.290)	39	170552			34.98- 94.98	63.38
1.674	1.674 (0.290)	41	145053			25.22- 85.22	53.90
13 Freon 142b					CAS #: 75-68-3		
1.884	1.884 (0.326)	65	1499593	100.000	97.279	80.00- 120.00	100.00
1.884	1.884 (0.326)	45	444419			0.00- 59.77	29.64
36 1-Pentene					CAS #: 109-67-1		
2.906	2.906 (0.503)	55	966890	100.000	95.667	80.00- 120.00	100.00
2.906	2.906 (0.503)	42	1331259			105.17- 165.17	137.68
40 Freon 123a					CAS #: 354-23-4		
3.386	3.385 (0.586)	117	933222	100.000	95.080	80.00- 120.00	100.00
3.386	3.378 (0.586)	67	1253615			104.69- 164.69	134.33
41 Freon 123					CAS #: 306-83-2		
3.479	3.479 (0.602)	83	1402358	100.000	100.49	80.00- 120.00	100.00
3.479	3.479 (0.602)	133	293086			0.00- 50.87	20.90
3.479	3.479 (0.602)	85	954375			36.08- 96.08	68.06
55 Cyclopentene					CAS #: 142-29-0		
4.073	4.073 (0.705)	67	1549614	100.000	103.63	80.00- 120.00	100.00
4.073	4.073 (0.705)	68	574894			6.76- 66.76	37.10
4.073	4.073 (0.705)	53	430697			0.00- 57.54	27.79
56 Methyl Acetate					CAS #: 79-20-9		
4.073	4.073 (0.705)	43	1860322	100.000	106.56	80.00- 120.00	100.00
4.080	4.073 (0.706)	74	265330			0.00- 44.13	14.26
74 Chloroprene					CAS #: 126-99-8		
5.019	5.019 (0.869)	53	1510132	100.000	108.90	80.00- 120.00	100.00
5.019	5.019 (0.869)	88	592673			9.21- 69.21	39.25
5.019	5.019 (0.869)	50	359244			0.00- 54.25	23.79
75 1-Propanol					CAS #: 71-23-8		
5.083	5.083 (0.880)	59	205049	100.000	98.484	80.00- 120.00	100.00
5.083	5.083 (0.880)	42	189310			63.23- 123.23	92.32
5.083	5.083 (0.880)	41	113051			24.74- 84.74	55.13
88 Methyl Acrylate					CAS #: 96-33-3		
5.620	5.620 (0.973)	55	1943701	100.000	106.36	80.00- 120.00	100.00
5.620	5.620 (0.973)	85	217090			0.00- 41.28	11.17
5.620	5.620 (0.973)	58	162912			0.00- 38.22	8.38
103 Isobutanol					CAS #: 78-83-1		
6.236	6.244 (1.079)	39	226725	100.000	101.49	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
103 Isobutanol (continued)							
6.244	6.244 (1.081)	43	1059873			448.18- 508.18	467.47
6.244	6.244 (1.081)	41	745566			299.99- 359.99	328.84
113 Ethyl acrylate					CAS #: 140-88-5		
6.938	6.938 (0.733)	99	135799	100.000	96.936	80.00- 120.00	100.00
6.938	6.938 (0.733)	45	252316			149.95- 209.95	185.80
6.938	6.938 (0.733)	55	2635755			1849.07-1909.07	1940.92
115 2-Pentanone					CAS #: 107-87-9		
7.032	7.031 (0.743)	43	3106672	100.000	101.23	80.00- 120.00	100.00
7.032	7.031 (0.743)	58	227526			0.00- 37.44	7.32
7.032	7.031 (0.743)	86	400164			0.00- 42.78	12.88
145 Butyl Acetate					CAS #: 123-86-4		
8.665	8.665 (1.301)	56	1533686	100.000	99.232	80.00- 120.00	100.00
8.665	8.665 (1.301)	73	450207			0.00- 59.10	29.35
8.658	8.657 (1.300)	43	3763757			215.30- 275.30	245.41
157 1,1,1,2-Tetrachloroethane					CAS #: 630-20-6		
9.596	9.596 (1.014)	131	1347909	100.000	100.28	80.00- 120.00	100.00
9.460	9.460 (1.000)	117	605655			57.42- 117.42	44.93
9.596	9.596 (1.014)	95	485333			5.70- 65.70	36.01
166 2-Heptanone					CAS #: 110-43-0		
10.362	10.362 (1.793)	58	2357119	100.000	102.38	80.00- 120.00	100.00
10.362	10.362 (1.793)	43	3890207			136.03- 196.03	165.04
172 D-Limonene					CAS #: 5989-27-5		
12.089	12.089 (1.278)	68	1800213	100.000	137.28	80.00- 120.00	100.00
12.089	12.089 (1.278)	93	1238262			39.41- 99.41	68.78
186 4-Chlorotoluene					CAS #: 106-43-4		
11.444	11.444 (1.210)	126	1234609	100.000	99.338	80.00- 120.00	100.00
11.444	11.444 (1.210)	91	3962866			295.02- 355.02	320.98
11.444	11.444 (1.210)	63	506526			11.82- 71.82	41.03
197 1,2,3-Trimethylbenzene					CAS #: 526-73-8		
12.318	12.318 (1.302)	120	1781367	100.000	98.416	80.00- 120.00	100.00
12.318	12.318 (1.302)	105	3973322			192.40- 252.40	223.05
12.318	12.318 (1.302)	77	442101			0.00- 54.69	24.82
205 Hexachloroethane					CAS #: 67-72-1		
12.977	12.970 (1.372)	201	850803	100.000	123.71	80.00- 120.00	100.00
12.977	12.970 (1.372)	117	1124452			102.99- 162.99	132.16

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
208 1,3,5-Trichlorobenzene					CAS #: 108-70-3		
13.779	13.758 (1.457)	180	2557091	100.000	100.71	80.00- 120.00	100.00
13.779	13.758 (1.457)	182	2439083			65.24- 125.24	95.39
210 alpha-Pinene					CAS #: 80-56-8		
10.599	10.599 (1.120)	93	2760113	100.000	112.22	80.00- 120.00	100.00
10.599	10.599 (1.120)	77	796024			0.00- 58.21	28.84
214 beta-Pinene					CAS #: 127-91-3		
11.422	11.422 (1.207)	93	2112301	100.000	133.10	80.00- 120.00	100.00
11.444	11.444 (1.210)	91	3962866			153.57- 213.57	187.61

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p051920.d
Lab Smp Id: ICAL Level 8
Analysis Type: VOA
Quant Type: ISTD
Operator: gh
Method File: /chem/msdp.i/19MAY21.b/p21q0519a.m
Misc Info: 100ppbv (200ppbv)

Calibration Date: 19-MAY-2021
Calibration Time: 15:55
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	158810	95286	222334	157260	-0.98
108 1,4-Difluorobenze	597103	358262	835944	611896	2.48
153 Chlorobenzene-d5	587747	352648	822846	605655	3.05

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.78	5.45	6.11	5.78	-0.00
108 1,4-Difluorobenze	6.66	6.33	6.99	6.66	-0.00
153 Chlorobenzene-d5	9.46	9.13	9.79	9.46	-0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msdp.i/19MAY21.b/p051920.d

Date : 19-MAY-2021 22:07

Client ID:

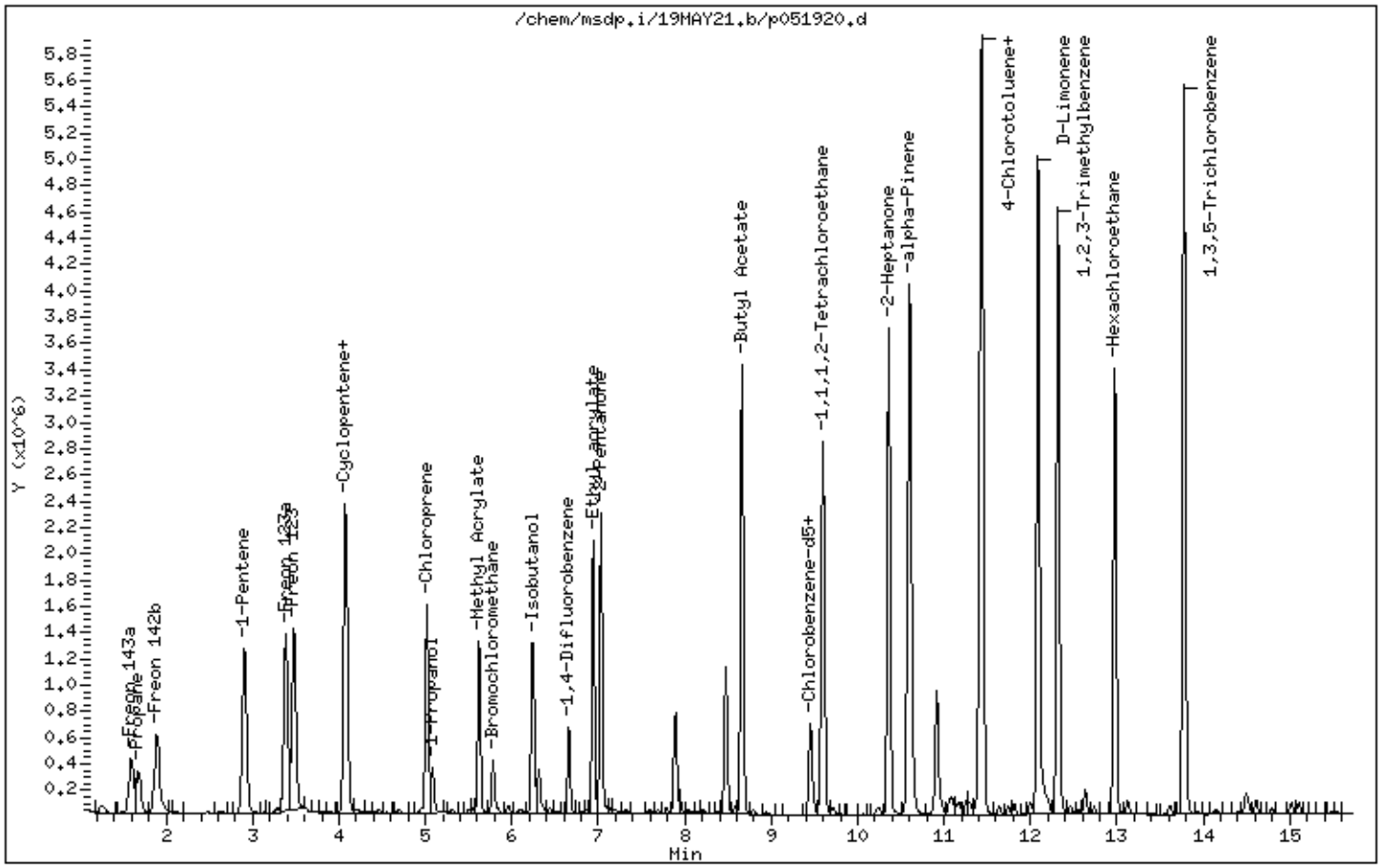
Instrument: msdp.i

Sample Info: 100mL 3018-2013

Operator: gh

Column phase: RTX-624

Column diameter: 0.25



US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/19MAY21.b/p051910.d
Lab Smp Id: ICAL Level 9
Inj Date : 19-MAY-2021 16:53
Operator : LD Inst ID: msdp.i
Smp Info : 200mL 3018-2034
Misc Info : 200ppbv (200ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/19MAY21.b/p21q0519a.m
Meth Date : 20-May-2021 09:50 lk8g Quant Type: ISTD
Cal Date : 19-MAY-2021 16:53 Cal File: p051910.d
Als bottle: 13 Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT20ICAL.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
4 Freon 134a					CAS #: 811-97-2		
1.660	1.633 (0.287)	83	963392	200.000	207.55	80.00- 120.00	100.00(A)
1.646	1.633 (0.285)	69	867624			59.44- 119.44	90.06
1.758	1.745 (0.304)	51	4138681			419.06- 479.06	429.59
5 Propylene					CAS #: 115-07-1		
1.688	1.675 (0.292)	41	1396714	200.000	208.12	80.00- 120.00	100.00(A)
1.688	1.675 (0.292)	42	925437			35.28- 95.28	66.26
1.688	1.675 (0.292)	39	960683			38.35- 98.35	68.78
7 1,1-Difluoroethane					CAS #: 75-37-6		
1.716	1.703 (0.297)	65	610604	200.000	183.68	80.00- 120.00	100.00
1.758	1.745 (0.304)	51	4138681			597.63- 657.63	677.80
1.716	1.703 (0.297)	47	402984			33.72- 93.72	66.00
8 Freon 12					CAS #: 75-71-8		
1.730	1.717 (0.299)	85	2956019	200.000	224.92	80.00- 120.00	100.00(A)
1.730	1.717 (0.299)	87	956315			2.37- 62.37	32.35
9 Chlorodifluoromethane					CAS #: 75-45-6		
1.758	1.745 (0.304)	67	279979	200.000	215.49	80.00- 120.00	100.00(A)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
9 Chlorodifluoromethane (continued)							
1.758	1.745 (0.304)	51	4138681			1501.01-1561.01	1478.21
10 Freon 114					CAS #: 76-14-2		
1.856	1.856 (0.321)	135	2798238	200.000	210.96	80.00- 120.00	100.00(A)
1.856	1.856 (0.321)	137	896202			2.30- 62.30	32.03
12 Isobutane					CAS #: 75-28-5		
1.870	1.870 (0.323)	43	3072142	200.000	206.77	80.00- 120.00	100.00(A)
1.870	1.870 (0.323)	42	980915			2.44- 62.44	31.93
1.870	1.856 (0.323)	58	99396			0.00- 33.36	3.24
15 Chloromethane					CAS #: 74-87-3		
1.954	1.940 (0.338)	50	1152746	200.000	151.06	80.00- 120.00	100.00
1.954	1.940 (0.338)	52	283410			0.00- 56.26	24.59
18 Butane					CAS #: 106-97-8		
2.053	2.025 (0.355)	58	411216	200.000	232.63	80.00- 120.00	100.00(A)
2.053	2.025 (0.355)	43	3342638			823.29- 883.29	812.87
19 Vinyl Chloride					CAS #: 75-01-4		
2.075	2.068 (0.359)	62	1863332	200.000	203.01	80.00- 120.00	100.00(A)
2.075	2.068 (0.359)	64	541008			0.00- 59.69	29.03
20 1,3-Butadiene					CAS #: 106-99-0		
2.111	2.089 (0.365)	54	1717595	200.000	229.88	80.00- 120.00	100.00(A)
2.111	2.089 (0.365)	39	2054933			52.37- 112.37	119.64
24 Bromomethane					CAS #: 74-83-9		
2.490	2.483 (0.430)	94	1117043	200.000	189.24	80.00- 120.00	100.00
2.490	2.483 (0.430)	96	1045104			64.07- 124.07	93.56
30 Chloroethane					CAS #: 75-00-3		
2.619	2.612 (0.453)	64	698592	200.000	211.62	80.00- 120.00	100.00(A)
2.619	2.612 (0.453)	66	205685			0.04- 60.04	29.44
2.619	2.612 (0.453)	49	231191			4.54- 64.54	33.09
31 Isopentane					CAS #: 78-78-4		
2.641	2.634 (0.456)	43	2078373	200.000	206.91	80.00- 120.00	100.00(A)
2.641	2.634 (0.456)	57	1341657			34.12- 94.12	64.55
32 Vinyl Bromide					CAS #: 593-60-2		
2.848	2.841 (0.492)	106	1169390	200.000	214.33	80.00- 120.00	100.00(A)
2.848	2.841 (0.492)	108	1149051			69.27- 129.27	98.26
33 Freon 11					CAS #: 75-69-4		
2.898	2.884 (0.501)	101	2990714	200.000	213.62	80.00- 120.00	100.00(A)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
33 Freon 11 (continued)							
2.898	2.884 (0.501)	103	1954067			34.72- 94.72	65.34
34 Dichlorofluoromethane					CAS #: 75-43-4		
2.906	2.899 (0.502)	67	2628562	200.000	218.19	80.00- 120.00	100.00(A)
2.906	2.899 (0.502)	69	808198			0.84- 60.84	30.75
35 Pentane					CAS #: 109-66-0		
2.977	2.970 (0.515)	43	3326896	200.000	203.77	80.00- 120.00	100.00(A)
2.977	2.970 (0.515)	57	497125			0.00- 44.98	14.94
2.977	2.970 (0.515)	72	250044			0.00- 37.39	7.52
38 Ethyl Ether					CAS #: 60-29-7		
3.292	3.285 (0.569)	74	597925	200.000	217.07	80.00- 120.00	100.00(A)
3.292	3.285 (0.569)	59	1144802			163.46- 223.46	191.46
3.285	3.285 (0.568)	45	1667751			250.40- 310.40	278.92
39 Ethanol					CAS #: 64-17-5		
3.249	3.242 (0.562)	46	301814	200.000	207.52	80.00- 120.00	100.00(A)
3.285	3.242 (0.568)	45	1657457			511.19- 571.19	549.17
42 Acrolein					CAS #: 107-02-8		
3.543	3.529 (0.612)	55	539808	200.000	213.90	80.00- 120.00	100.00(A)
3.543	3.529 (0.612)	56	750593			111.10- 171.10	139.05
43 Freon 113					CAS #: 76-13-1		
3.557	3.550 (0.615)	151	2174805	200.000	208.58	80.00- 120.00	100.00(A)
3.557	3.550 (0.615)	153	1392066			33.56- 93.56	64.01
3.557	3.550 (0.615)	101	2603153			89.21- 149.21	119.70
44 1,1-Dichloroethene					CAS #: 75-35-4		
3.593	3.579 (0.621)	96	1272304	200.000	210.50	80.00- 120.00	100.00(A)
3.593	3.579 (0.621)	98	804446			34.02- 94.02	63.23
3.593	3.579 (0.621)	61	2540756			168.77- 228.77	199.70
47 Acetone					CAS #: 67-64-1		
3.722	3.708 (0.643)	58	818913	200.000	213.00	80.00- 120.00	100.00(A)
3.722	3.708 (0.643)	43	2670673			302.95- 362.95	326.12
48 Carbon Disulfide					CAS #: 75-15-0		
3.837	3.823 (0.663)	76	3473690	200.000	212.53	80.00- 120.00	100.00(A)
49 Iodomethane					CAS #: 74-88-4		
3.794	3.794 (0.656)	142	2824784	200.000	259.99	80.00- 120.00	100.00(A)
3.794	3.794 (0.656)	127	1185970			12.22- 72.22	41.98

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
52 2-Propanol					CAS #: 67-63-0		
3.901	3.887 (0.674)	45	3287894	200.000	212.18	80.00- 120.00	100.00(A)
3.901	3.887 (0.674)	43	565170			0.00- 47.19	17.19
54 3-Chloropropene					CAS #: 107-05-1		
4.059	4.052 (0.702)	76	545365	200.000	199.73	80.00- 120.00	100.00
4.052	4.052 (0.700)	41	2224570			396.19- 456.19	407.90
57 Acetonitrile					CAS #: 75-05-8		
4.131	4.123 (0.714)	41	1631593	200.000	225.92	80.00- 120.00	100.00(A)
4.131	4.123 (0.714)	40	829052			20.95- 80.95	50.81
4.131	4.123 (0.714)	38	182363			0.00- 41.17	11.18
59 Methylene Chloride					CAS #: 75-09-2		
4.238	4.238 (0.733)	49	2169168	200.000	217.21	80.00- 120.00	100.00(A)
4.238	4.238 (0.733)	84	1125402			22.03- 82.03	51.88
4.238	4.238 (0.733)	51	657885			0.18- 60.18	30.33
62 tert-Butyl alcohol					CAS #: 75-65-0		
4.345	4.338 (0.751)	59	3675194	200.000	203.38	80.00- 120.00	100.00(A)
4.345	4.338 (0.751)	41	762931			0.00- 51.11	20.76
4.345	4.338 (0.751)	57	374274			0.00- 40.49	10.18
63 Methyl tert-butyl ether					CAS #: 1634-04-4		
4.446	4.446 (0.768)	73	3660106	200.000	203.22	80.00- 120.00	100.00(A)
4.446	4.446 (0.768)	57	1205080			3.10- 63.10	32.92
4.446	4.446 (0.768)	41	1137977			1.28- 61.28	31.09
64 trans-1,2-Dichloroethene					CAS #: 156-60-5		
4.482	4.482 (0.775)	98	872146	200.000	213.32	80.00- 120.00	100.00(A)
4.482	4.482 (0.775)	61	2471299			255.84- 315.84	283.36
4.482	4.482 (0.775)	96	1368568			127.59- 187.59	156.92
66 Acrylonitrile					CAS #: 107-13-1		
4.567	4.560 (0.789)	52	1209839	200.000	208.90	80.00- 120.00	100.00(A)
4.567	4.560 (0.789)	53	1441756			88.05- 148.05	119.17
67 Hexane					CAS #: 110-54-3		
4.696	4.697 (0.812)	57	3059384	200.000	213.36	80.00- 120.00	100.00(A)
4.696	4.697 (0.812)	43	2035499			37.52- 97.52	66.53
4.696	4.697 (0.812)	86	348023			0.00- 41.48	11.38
71 1,1-Dichloroethane					CAS #: 75-34-3		
4.969	4.962 (0.859)	63	2727099	200.000	215.24	80.00- 120.00	100.00(A)
4.969	4.962 (0.859)	65	807144			0.00- 59.70	29.60

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
72 Isopropyl ether						CAS #: 108-20-3	
4.947	4.954 (0.855)	45	6972756	200.000	207.52	80.00- 120.00	100.00(A)
4.947	4.954 (0.855)	87	1261426			0.00- 48.18	18.09
4.947	4.954 (0.855)	59	707319			0.00- 40.15	10.14
73 Vinyl Acetate						CAS #: 108-05-4	
4.997	4.997 (0.864)	86	353856	200.000	221.69	80.00- 120.00	100.00(A)
4.997	4.997 (0.864)	43	6152688			2432.48-2492.48	1738.75
79 Ethyl-tert-butyl ether						CAS #: 637-92-3	
5.305	5.305 (0.917)	59	5991015	200.000	205.98	80.00- 120.00	100.00(A)
5.305	5.305 (0.917)	87	1852036			1.00- 61.00	30.91
5.305	5.305 (0.917)	41	1108520			0.00- 48.73	18.50
84 2,2-Dichloropropane						CAS #: 594-20-7	
5.513	5.506 (0.953)	77	2339456	200.000	212.12	80.00- 120.00	100.00(A)
5.513	5.506 (0.953)	79	759579			2.28- 62.28	32.47
5.513	5.506 (0.953)	97	577290			0.00- 53.93	24.68
85 cis-1,2-Dichloroethene						CAS #: 156-59-2	
5.549	5.549 (0.959)	98	941351	200.000	222.97	80.00- 120.00	100.00(A)
5.549	5.549 (0.959)	96	1475590			125.75- 185.75	156.75
5.549	5.549 (0.959)	61	3406307			332.40- 392.40	361.85
86 2-Butanone						CAS #: 78-93-3	
5.556	5.556 (0.960)	72	710177	200.000	214.24	80.00- 120.00	100.00(A)
5.563	5.556 (0.962)	43	8748765			1214.50-1274.50	1231.91
5.556	5.556 (0.960)	57	313614			14.68- 74.68	44.16
87 Ethyl Acetate						CAS #: 141-78-6	
5.570	5.570 (0.963)	45	710278	200.000	215.42	80.00- 120.00	100.00(A)
5.549	5.549 (0.959)	61	3406439			452.04- 512.04	479.59
5.570	5.570 (0.963)	70	376648			22.77- 82.77	53.03
89 Tetrahydrofuran						CAS #: 109-99-9	
5.778	5.771 (0.999)	42	2389288	200.000	213.80	80.00- 120.00	100.00(A)
5.778	5.771 (0.999)	71	621062			0.00- 55.82	25.99
5.778	5.771 (0.999)	72	679138			0.00- 57.59	28.42
* 90 Bromochloromethane						CAS #: 74-97-5	
5.785	5.778 (1.000)	130	146655	25.0000		80.00- 120.00	100.00
5.785	5.778 (1.000)	128	114483			48.23- 108.23	78.06
5.785	5.778 (1.000)	49	264310			150.57- 210.57	180.23
92 Chloroform						CAS #: 67-66-3	
5.842	5.835 (1.010)	83	2849633	200.000	221.70	80.00- 120.00	100.00(A)

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
92 Chloroform (continued)							
5.842	5.835 (1.010)	85	1839274			34.70- 94.70	64.54
94 Cyclohexane					CAS #: 110-82-7		
5.957	5.957 (1.030)	84	1890120	200.000	209.08	80.00- 120.00	100.00(A)
5.957	5.957 (1.030)	56	3281786			142.57- 202.57	173.63
5.957	5.957 (1.030)	41	1740496			62.09- 122.09	92.08
96 1,1,1-Trichloroethane					CAS #: 71-55-6		
5.971	5.972 (1.032)	97	2948715	200.000	206.40	80.00- 120.00	100.00(A)
5.971	5.972 (1.032)	99	1896974			34.02- 94.02	64.33
97 Carbon Tetrachloride					CAS #: 56-23-5		
6.093	6.086 (1.053)	119	2981854	200.000	217.13	80.00- 120.00	100.00(A)
6.093	6.086 (1.053)	117	3007163			70.64- 130.64	100.85
99 1,1-Dichloropropene					CAS #: 563-58-6		
6.122	6.115 (0.919)	110	839217	200.000	203.04	80.00- 120.00	100.00(A)
6.115	6.115 (0.918)	75	2124877			226.85- 286.85	253.20
101 2,2,4-Trimethylpentane					CAS #: 540-84-1		
6.279	6.280 (1.085)	57	10464793	200.000	207.89	80.00- 120.00	100.00(A)
6.279	6.280 (1.085)	56	3399889			2.24- 62.24	32.49
6.279	6.280 (1.085)	41	2587604			0.00- 54.39	24.73
102 Benzene					CAS #: 71-43-2		
6.301	6.301 (0.946)	78	4111436	200.000	205.31	80.00- 120.00	100.00(A)
6.301	6.301 (0.946)	77	947596			0.00- 52.90	23.05
$ 104 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
6.315	6.308 (1.092)	65	228223	25.0000	27.989	80.00- 120.00	100.00
6.308	6.308 (1.090)	67	169168			27.21- 87.21	74.12
105 tert-Amyl methyl ether					CAS #: 994-05-8		
6.358	6.358 (0.955)	87	1080564	200.000	191.25	80.00- 120.00	100.00
6.358	6.358 (0.955)	73	4364452			372.79- 432.79	403.90
6.358	6.358 (0.955)	55	1482176			112.09- 172.09	137.17
106 1,2-Dichloroethane					CAS #: 107-06-2		
6.380	6.380 (0.958)	62	2173814	200.000	205.36	80.00- 120.00	100.00(A)
6.380	6.380 (0.958)	64	662081			0.79- 60.79	30.46
107 Heptane					CAS #: 142-82-5		
6.444	6.444 (0.968)	71	1572559	200.000	200.11	80.00- 120.00	100.00(A)
6.444	6.444 (0.968)	43	4039565			226.53- 286.53	256.88
6.444	6.444 (0.968)	57	2057612			100.85- 160.85	130.84

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
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* 108 1,4-Difluorobenzene						CAS #: 540-36-3	
6.659	6.659 (1.000)	114	607214	25.0000		80.00- 120.00	100.00
6.659	6.659 (1.000)	88	93970			0.00- 45.71	15.48
110 n-Butanol						CAS #: 71-36-3	
6.809	6.810 (1.023)	56	1498541	200.000	205.70	80.00- 120.00	100.00(A)
6.809	6.810 (1.023)	41	1046025			40.99- 100.99	69.80
6.809	6.810 (1.023)	43	852168			27.38- 87.38	56.87
111 Trichloroethene						CAS #: 79-01-6	
6.867	6.867 (1.031)	95	2004771	200.000	206.61	80.00- 120.00	100.00(A)
6.867	6.867 (1.031)	130	2152958			76.29- 136.29	107.39
6.867	6.867 (1.031)	97	1282796			33.63- 93.63	63.99
114 1,2-Dichloropropane						CAS #: 78-87-5	
7.096	7.089 (1.066)	63	2045978	200.000	200.76	80.00- 120.00	100.00(A)
7.096	7.089 (1.066)	62	1452463			41.07- 101.07	70.99
7.096	7.089 (1.066)	41	1025055			22.53- 82.53	50.10
116 Methyl Methacrylate						CAS #: 80-62-6	
7.139	7.132 (0.755)	69	1664410	200.000	203.56	80.00- 120.00	100.00(A)
7.139	7.132 (0.755)	41	3490137			179.84- 239.84	209.69
7.139	7.139 (0.755)	100	669735			9.59- 69.59	40.24
117 1,4-Dioxane						CAS #: 123-91-1	
7.175	7.175 (1.077)	88	1068493	200.000	195.71	80.00- 120.00	100.00
7.175	7.175 (1.077)	58	1054342			68.28- 128.28	98.68
7.175	7.175 (1.077)	57	357622			2.68- 62.68	33.47
118 Dibromomethane						CAS #: 74-95-3	
7.211	7.204 (0.762)	174	1851234	200.000	206.43	80.00- 120.00	100.00(A)
7.203	7.204 (0.761)	93	1651072			60.09- 120.09	89.19
7.203	7.204 (0.761)	95	1434152			48.38- 108.38	77.47
122 Bromodichloromethane						CAS #: 75-27-4	
7.318	7.318 (1.099)	83	3187397	200.000	209.29	80.00- 120.00	100.00(A)
7.318	7.318 (1.099)	85	2050718			35.24- 95.24	64.34
126 cis-1,3-Dichloropropene						CAS #: 10061-01-5	
7.698	7.691 (1.156)	75	2666430	200.000	209.05	80.00- 120.00	100.00(A)
7.698	7.691 (1.156)	77	846283			2.42- 62.42	31.74
7.691	7.691 (1.155)	39	1760038			37.16- 97.16	66.01
127 Methylcyclohexane						CAS #: 108-87-2	
6.974	6.974 (1.047)	83	2728123	200.000	194.48	80.00- 120.00	100.00
6.974	6.974 (1.047)	98	1272958			15.78- 75.78	46.66

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
127 Methylcyclohexane (continued)							
6.974	6.974 (1.047)	55	3109761			84.64- 144.64	113.99
131 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.791	7.791 (1.170)	58	1984175	200.000	194.19	80.00- 120.00	100.00
7.791	7.791 (1.170)	43	5363252			242.35- 302.35	270.30
7.798	7.791 (1.171)	85	653050			3.24- 63.24	32.91
$ 134 Toluene-d8					CAS #: 2037-26-5		
7.891	7.891 (1.185)	98	661488	25.0000	25.064	80.00- 120.00	100.00
7.891	7.891 (1.185)	70	62867			0.00- 40.44	9.50
7.891	7.891 (1.185)	100	430214			34.95- 94.95	65.04
137 Toluene					CAS #: 108-88-3		
7.956	7.949 (1.195)	91	5496866	200.000	198.84	80.00- 120.00	100.00
7.956	7.949 (1.195)	92	3223093			28.38- 88.38	58.64
136 Octane					CAS #: 111-65-9		
7.948	7.949 (1.194)	57	2290202	200.000	196.83	80.00- 120.00	100.00
7.948	7.949 (1.194)	85	1946174			56.00- 116.00	84.98
7.948	7.949 (1.194)	43	5895371			228.66- 288.66	257.42
139 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
8.213	8.214 (0.868)	75	2472659	200.000	208.56	80.00- 120.00	100.00(A)
8.213	8.214 (0.868)	77	780505			1.24- 61.24	31.57
8.213	8.214 (0.868)	39	1616909			34.11- 94.11	65.39
141 1,1,2-Trichloroethane					CAS #: 79-00-5		
8.400	8.400 (0.888)	97	1973653	200.000	206.88	80.00- 120.00	100.00(A)
8.400	8.400 (0.888)	99	1227648			31.96- 91.96	62.20
8.400	8.400 (0.888)	83	1639096			52.93- 112.93	83.05
142 Tetrachloroethene					CAS #: 127-18-4		
8.464	8.464 (0.895)	166	2764412	200.000	200.38	80.00- 120.00	100.00(A)
8.464	8.464 (0.895)	129	2156828			47.84- 107.84	78.02
8.464	8.464 (0.895)	131	2092898			45.29- 105.29	75.71
143 2-Hexanone					CAS #: 591-78-6		
8.586	8.586 (0.908)	58	2749799	200.000	198.84	80.00- 120.00	100.00
8.586	8.586 (0.908)	43	5238084			162.87- 222.87	190.49
8.586	8.586 (0.908)	100	433880			0.00- 45.94	15.78
144 1,3-Dichloropropane					CAS #: 142-28-9		
8.579	8.579 (1.288)	76	2712190	200.000	204.00	80.00- 120.00	100.00(A)
8.579	8.579 (1.288)	41	3365614			94.99- 154.99	124.09
8.579	8.579 (1.288)	78	882760			2.05- 62.05	32.55

				AMOUNTS				
					CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE		(PPBV)	(PPBV)	TARGET RANGE	RATIO
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146 Dibromochloromethane						CAS #: 124-48-1		
8.801	8.801 (0.930)	129	3803420	200.000	207.93	80.00- 120.00	100.00(A)	
8.801	8.801 (0.930)	127	2948441			47.45- 107.45	77.52	
148 1,2-Dibromoethane (EDB)						CAS #: 106-93-4		
8.951	8.951 (0.946)	107	3199545	200.000	204.31	80.00- 120.00	100.00(A)	
8.951	8.951 (0.946)	109	3015665			64.21- 124.21	94.25	
151 1-Bromo-2-Chloroethane						CAS #: 107-04-0		
7.605	7.605 (1.142)	63	3852793	200.000	204.41	80.00- 120.00	100.00(A)	
7.605	7.605 (1.142)	65	1142924			0.00- 59.64	29.66	
7.605	7.605 (1.142)	144	374076			0.00- 39.63	9.71	
* 153 Chlorobenzene-d5						CAS #: 3114-55-4		
9.460	9.460 (1.000)	117	595090	25.0000		80.00- 120.00	100.00	
9.460	9.460 (1.000)	82	322638			23.78- 83.78	54.22	
154 Chlorobenzene						CAS #: 108-90-7		
9.496	9.496 (1.004)	112	4805022	200.000	203.48	80.00- 120.00	100.00(A)	
9.496	9.496 (1.004)	114	1542900			1.74- 61.74	32.11	
9.496	9.496 (1.004)	77	2584699			25.04- 85.04	53.79	
155 Ethyl Benzene						CAS #: 100-41-4		
9.567	9.567 (1.011)	106	2443043	200.000	198.07	80.00- 120.00	100.00	
9.567	9.567 (1.011)	91	7445132			273.74- 333.74	304.75	
156 Nonane						CAS #: 111-84-2		
9.603	9.596 (1.015)	43	6171885	200.000	194.14	80.00- 120.00	100.00	
9.603	9.603 (1.015)	57	5253139			54.16- 114.16	85.11	
9.603	9.603 (1.015)	85	1482943			0.00- 53.90	24.03	
158 m,p-Xylene						CAS #: 108-38-3		
9.718	9.718 (1.027)	106	3015614	200.000	196.78	80.00- 120.00	100.00	
9.718	9.718 (1.027)	91	5869082			163.73- 223.73	194.62	
164 o-Xylene						CAS #: 95-47-6		
10.226	10.226 (1.081)	106	2925715	200.000	197.04	80.00- 120.00	100.00	
10.226	10.226 (1.081)	91	5968076			177.45- 237.45	203.99	
165 Styrene						CAS #: 100-42-5		
10.255	10.255 (1.084)	104	4970586	200.000	197.21	80.00- 120.00	100.00	
10.255	10.255 (1.084)	78	2372058			17.88- 77.88	47.72	
167 Bromoform						CAS #: 75-25-2		
10.549	10.542 (1.115)	173	3738056	200.000	208.68	80.00- 120.00	100.00(A)	
10.549	10.542 (1.115)	171	1919438			21.25- 81.25	51.35	

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
168 Cumene					CAS #: 98-82-8		
10.656	10.649 (1.126)	105	9133490	200.000	196.23	80.00- 120.00	100.00
10.656	10.649 (1.126)	120	2612516			0.00- 58.52	28.60
10.649	10.649 (1.126)	51	1174655			0.00- 43.00	12.86
169 Cyclohexanone					CAS #: 108-94-1		
10.871	10.871 (1.149)	55	3186182	200.000	191.28	80.00- 120.00	100.00
10.871	10.871 (1.149)	98	1023262			1.94- 61.94	32.12
10.871	10.871 (1.149)	42	2155068			37.89- 97.89	67.64
$ 170 4-Bromofluorobenzene					CAS #: 460-00-4		
10.921	10.921 (1.154)	174	391305	25.0000	25.595	80.00- 120.00	100.00
10.921	10.921 (1.154)	95	492677			95.92- 155.92	125.91
10.921	10.921 (1.154)	176	379433			66.89- 126.89	96.97
175 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
11.107	11.100 (1.174)	83	4478778	200.000	197.42	80.00- 120.00	100.00
11.107	11.100 (1.174)	85	2889301			35.20- 95.20	64.51
177 Bromobenzene					CAS #: 108-86-1		
11.107	11.107 (1.174)	156	2876488	200.000	203.06	80.00- 120.00	100.00(A)
11.107	11.107 (1.174)	158	2796126			67.21- 127.21	97.21
11.179	11.179 (1.182)	77	1690886			29.02- 89.02	58.78
178 Propylbenzene					CAS #: 103-65-1		
11.150	11.150 (1.179)	120	2681478	200.000	194.62	80.00- 120.00	100.00
11.150	11.150 (1.179)	91	10576237			366.49- 426.49	394.42
11.150	11.150 (1.179)	105	403848			0.00- 44.85	15.06
179 1,2,3-Trichloropropane					CAS #: 96-18-4		
11.179	11.179 (1.182)	110	1359844	200.000	190.81	80.00- 120.00	100.00
11.179	11.179 (1.182)	75	4281561			280.55- 340.55	314.86
11.107	11.100 (1.174)	61	607928			15.49- 75.49	44.71
181 trans-1,4-Dichloro-2-butene					CAS #: 110-57-6		
11.179	11.179 (1.182)	53	954975	200.000	201.05	80.00- 120.00	100.00(A)
11.179	11.179 (1.182)	89	738088			49.11- 109.11	77.29
11.179	11.179 (1.182)	75	4281561			426.44- 486.44	448.34
182 Decane					CAS #: 124-18-5		
11.258	11.251 (1.190)	57	6477918	200.000	178.80	80.00- 120.00	100.00
11.258	11.251 (1.190)	71	1764517			0.00- 57.66	27.24
11.258	11.258 (1.190)	142	263248			0.00- 34.09	4.06
183 4-Ethyltoluene					CAS #: 622-96-8		
11.286	11.287 (1.193)	120	2800806	200.000	189.85	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
183 4-Ethyltoluene (continued)							
11.286	11.287 (1.193)	105	9001865			284.55- 344.55	321.40
184 2-Chlorotoluene					CAS #: 95-49-8		
11.315	11.308 (1.196)	126	2257842	200.000	193.82	80.00- 120.00	100.00
11.308	11.308 (1.195)	91	7834055			315.17- 375.17	346.97
11.301	11.301 (1.195)	65	1128270			21.55- 81.55	49.97
185 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
11.365	11.365 (1.201)	120	4109840	200.000	199.10	80.00- 120.00	100.00
11.365	11.365 (1.201)	105	7853670			164.93- 224.93	191.09
188 alpha Methyl Styrene					CAS #: 98-83-9		
11.645	11.645 (1.231)	118	4135477	200.000	199.73	80.00- 120.00	100.00
11.645	11.645 (1.231)	103	2280562			25.30- 85.30	55.15
189 tert-Butylbenzene					CAS #: 98-06-6		
11.745	11.738 (1.242)	119	7751216	200.000	200.41	80.00- 120.00	100.00(A)
11.745	11.738 (1.242)	134	1872880			0.00- 54.25	24.16
11.738	11.738 (1.241)	91	4741993			31.27- 91.27	61.18
190 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
11.816	11.817 (1.249)	105	7641602	200.000	195.85	80.00- 120.00	100.00
11.816	11.817 (1.249)	120	3760947			19.05- 79.05	49.22
192 sec-Butylbenzene					CAS #: 135-98-8		
12.003	11.996 (1.269)	134	2387678	200.000	198.82	80.00- 120.00	100.00
12.003	11.996 (1.269)	105	11138250			437.55- 497.55	466.49
11.996	11.996 (1.268)	91	1685037			40.76- 100.76	70.57
194 p-Cymene					CAS #: 99-87-6		
12.160	12.160 (1.285)	119	10410880	200.000	197.06	80.00- 120.00	100.00
12.160	12.160 (1.285)	134	2680251			0.00- 55.54	25.74
12.160	12.153 (1.285)	91	2223506			0.00- 51.48	21.36
195 1,3-Dichlorobenzene					CAS #: 541-73-1		
12.203	12.196 (1.290)	146	5269323	200.000	196.50	80.00- 120.00	100.00
12.203	12.196 (1.290)	148	3364893			33.21- 93.21	63.86
12.196	12.196 (1.289)	111	2179310			11.31- 71.31	41.36
196 1,4-Dichlorobenzene					CAS #: 106-46-7		
12.311	12.311 (1.301)	146	5379837	200.000	198.98	80.00- 120.00	100.00
12.311	12.311 (1.301)	148	3443156			33.90- 93.90	64.00
12.311	12.311 (1.301)	111	2132840			9.45- 69.45	39.65
199 alpha-Chlorotoluene					CAS #: 100-44-7		
12.461	12.461 (1.317)	91	7476818	200.000	201.60	80.00- 120.00	100.00(A)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
199 alpha-Chlorotoluene (continued)							
12.461	12.461 (1.317)	126	1723549			0.00- 53.26	23.05
201 Undecane					CAS #: 1120-21-4		
12.640	12.640 (1.336)	57	7391785	200.000	176.63	80.00- 120.00	100.00
12.640	12.640 (1.336)	43	6481442			58.12- 118.12	87.68
202 Butylbenzene					CAS #: 104-51-8		
12.626	12.626 (1.335)	134	2555712	200.000	190.54	80.00- 120.00	100.00
12.626	12.626 (1.335)	91	8833770			314.79- 374.79	345.65
12.626	12.626 (1.335)	92	4753356			154.29- 214.29	185.99
204 1,2-Dichlorobenzene					CAS #: 95-50-1		
12.733	12.741 (1.346)	146	5095250	200.000	195.20	80.00- 120.00	100.00
12.733	12.741 (1.346)	148	3245004			33.84- 93.84	63.69
12.733	12.741 (1.346)	111	2166463			12.73- 72.73	42.52
206 1,2-Dibromo-3-chloropropane					CAS #: 96-12-8		
13.600	13.600 (1.438)	157	3185412	200.000	200.77	80.00- 120.00	100.00(A)
13.600	13.600 (1.438)	75	2632735			52.48- 112.48	82.65
13.600	13.600 (1.438)	155	2459698			47.41- 107.41	77.22
207 Dodecane					CAS #: 112-40-3		
13.801	13.801 (1.459)	57	8872524	247.000	272.11	80.00- 120.00	100.00(A)
13.801	13.801 (1.459)	43	7239358			52.87- 112.87	81.59
213 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
14.467	14.467 (1.529)	180	5062178	252.000	261.56	80.00- 120.00	100.00(A)
14.467	14.467 (1.529)	182	4827276			65.33- 125.33	95.36
215 Hexachlorobutadiene					CAS #: 87-68-3		
14.581	14.582 (1.541)	225	3721949	257.000	273.25	80.00- 120.00	100.00(A)
14.581	14.582 (1.541)	223	2342743			33.17- 93.17	62.94
216 Naphthalene					CAS #: 91-20-3		
14.768	14.768 (1.561)	128	1265607	25.4000	25.587	80.00- 120.00	100.00
14.768	14.768 (1.561)	127	157387			0.00- 42.88	12.44
222 1,2,3-Trichlorobenzene					CAS #: 87-61-6		
15.068	15.069 (1.593)	180	4844896	266.000	283.17	80.00- 120.00	100.00(A)
15.068	15.069 (1.593)	182	4630533			65.75- 125.75	95.58
15.068	15.069 (1.593)	145	1724268			5.23- 65.23	35.59

QC Flag Legend

A - Target compound detected but, quantitated amount
exceeded maximum amount.

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p051910.d
Lab Smp Id: ICAL Level 9
Analysis Type: VOA
Quant Type: ISTD
Operator: LD
Method File: /chem/msdp.i/19MAY21.b/p21q0519a.m
Misc Info: 200ppbv (200ppbv)

Calibration Date: 19-MAY-2021
Calibration Time: 15:55
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	158810	95286	222334	146655	-7.65
108 1,4-Difluorobenze	597103	358262	835944	607214	1.69
153 Chlorobenzene-d5	587747	352648	822846	595090	1.25

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.78	5.45	6.11	5.79	0.12
108 1,4-Difluorobenze	6.66	6.33	6.99	6.66	-0.00
153 Chlorobenzene-d5	9.46	9.13	9.79	9.46	-0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msdp.i/19MAY21.b/p051910.d

Page 1

Date : 19-MAY-2021 16:53

Client ID:

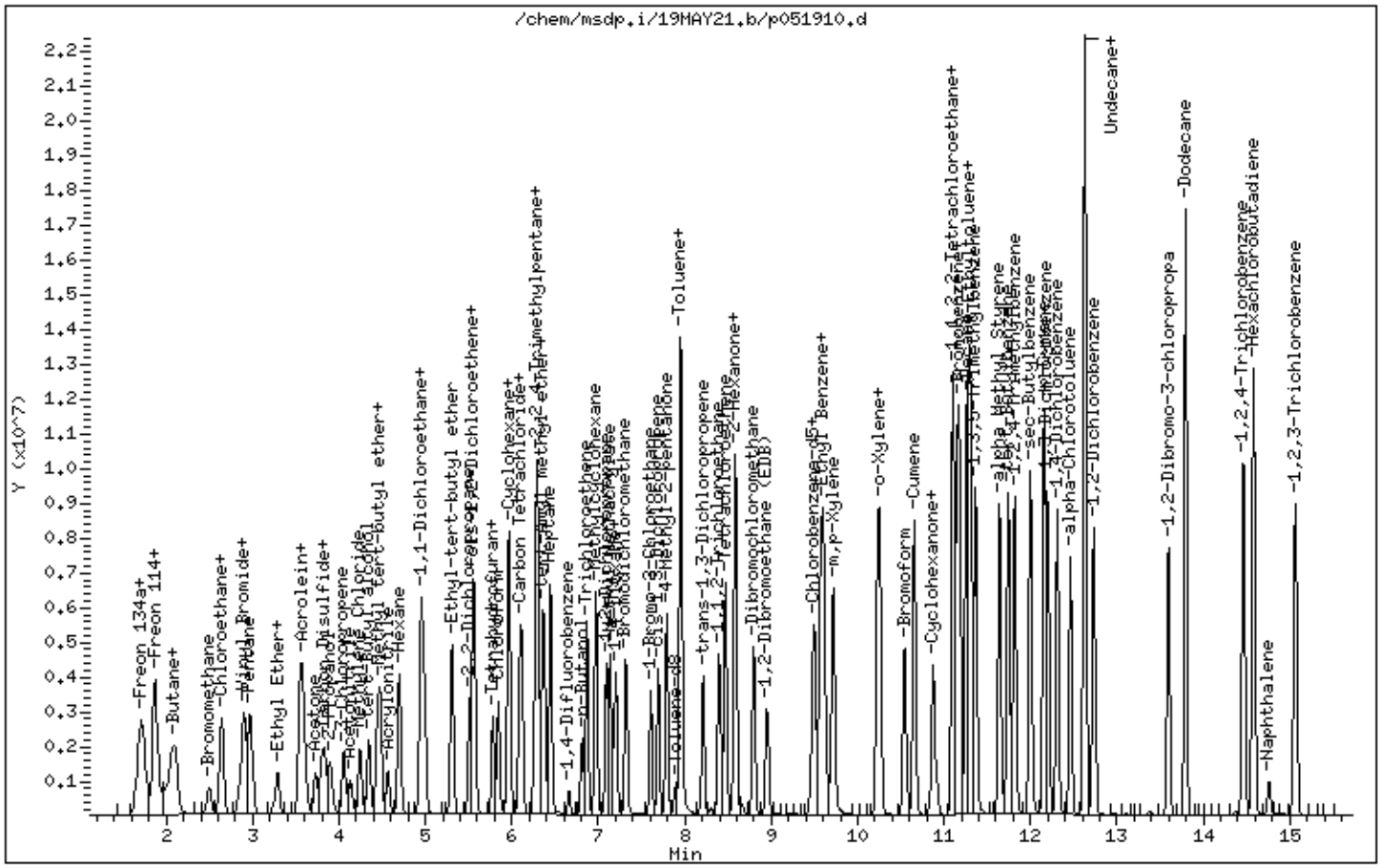
Instrument: msdp.i

Sample Info: 200mL 3018-2034

Operator: LD

Column phase: RTX-624

Column diameter: 0.25



US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/19MAY21.b/p051921.d
Lab Smp Id: ICAL Level 9
Inj Date : 19-MAY-2021 22:39
Operator : gh Inst ID: msdp.i
Smp Info : 200mL 3018-2013
Misc Info : 200ppbv (200ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/19MAY21.b/p21q0519a.m
Meth Date : 20-May-2021 09:50 lk8g Quant Type: ISTD
Cal Date : 19-MAY-2021 22:39 Cal File: p051921.d
Als bottle: 3 Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT20spICAL.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 90 Bromochloromethane					CAS #: 74-97-5		
5.778	5.778 (1.000)	130	153421	25.0000		80.00- 120.00	100.00
5.778	5.778 (1.000)	128	119993			48.23- 108.23	78.21
5.778	5.778 (1.000)	49	281111			150.57- 210.57	183.23
* 108 1,4-Difluorobenzene					CAS #: 540-36-3		
6.659	6.659 (1.000)	114	611809	25.0000		80.00- 120.00	100.00
6.659	6.659 (1.000)	88	95212			0.00- 45.71	15.56
* 153 Chlorobenzene-d5					CAS #: 3114-55-4		
9.460	9.460 (1.000)	117	591968	25.0000		80.00- 120.00	100.00
9.460	9.460 (1.000)	82	325404			23.78- 83.78	54.97
3 Freon 143a					CAS #: 420-46-2		
1.591	1.590 (0.275)	65	400344	200.000	135.04	80.00- 120.00	100.00
1.591	1.590 (0.275)	69	1105090			243.50- 303.50	276.04
1.591	1.590 (0.275)	64	95760			0.00- 54.06	23.92
6 Propane					CAS #: 74-98-6		
1.675	1.674 (0.290)	43	527234	200.000	194.13	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
6 Propane (continued)							
1.675	1.674 (0.290)	39	330737			34.98- 94.98	62.73
1.675	1.674 (0.290)	41	280905			25.22- 85.22	53.28
13 Freon 142b						CAS #: 75-68-3	
1.884	1.884 (0.326)	65	2932126	200.000	195.58	80.00- 120.00	100.00
1.884	1.884 (0.326)	45	866027			0.00- 59.77	29.54
36 1-Pentene						CAS #: 109-67-1	
2.906	2.906 (0.503)	55	1894226	200.000	193.06	80.00- 120.00	100.00
2.906	2.906 (0.503)	42	2580451			105.17- 165.17	136.23
40 Freon 123a						CAS #: 354-23-4	
3.386	3.385 (0.586)	117	1952332	200.000	203.39	80.00- 120.00	100.00(A)
3.378	3.378 (0.585)	67	2434248			104.69- 164.69	124.68
41 Freon 123						CAS #: 306-83-2	
3.479	3.479 (0.602)	83	2762089	200.000	202.52	80.00- 120.00	100.00(A)
3.479	3.479 (0.602)	133	571513			0.00- 50.87	20.69
3.479	3.479 (0.602)	85	1881243			36.08- 96.08	68.11
55 Cyclopentene						CAS #: 142-29-0	
4.073	4.073 (0.705)	67	3056516	200.000	208.28	80.00- 120.00	100.00(A)
4.073	4.073 (0.705)	68	1136453			6.76- 66.76	37.18
4.066	4.073 (0.704)	53	851928			0.00- 57.54	27.87
56 Methyl Acetate						CAS #: 79-20-9	
4.073	4.073 (0.705)	43	3612790	200.000	210.52	80.00- 120.00	100.00(A)
4.073	4.073 (0.705)	74	515897			0.00- 44.13	14.28
74 Chloroprene						CAS #: 126-99-8	
5.012	5.019 (0.867)	53	2991875	200.000	218.26	80.00- 120.00	100.00(A)
5.019	5.019 (0.869)	88	1176445			9.21- 69.21	39.32
5.012	5.019 (0.867)	50	709040			0.00- 54.25	23.70
75 1-Propanol						CAS #: 71-23-8	
5.083	5.083 (0.880)	59	399024	200.000	196.88	80.00- 120.00	100.00
5.083	5.083 (0.880)	42	379166			63.23- 123.23	95.02
5.083	5.083 (0.880)	41	223562			24.74- 84.74	56.03
88 Methyl Acrylate						CAS #: 96-33-3	
5.621	5.620 (0.973)	55	3851199	200.000	213.88	80.00- 120.00	100.00(A)
5.621	5.620 (0.973)	85	434023			0.00- 41.28	11.27
5.621	5.620 (0.973)	58	316363			0.00- 38.22	8.21
103 Isobutanol						CAS #: 78-83-1	
6.237	6.244 (1.079)	39	424672	200.000	195.48	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
103 Isobutanol (continued)							
6.237	6.244 (1.079)	43	2091776			448.18- 508.18	492.56
6.237	6.244 (1.079)	41	1430737			299.99- 359.99	336.90
113 Ethyl acrylate					CAS #: 140-88-5		
6.939	6.938 (0.733)	99	269080	200.000	196.94	80.00- 120.00	100.00
6.939	6.938 (0.733)	45	496156			149.95- 209.95	184.39
6.939	6.938 (0.733)	55	5189842			1849.07-1909.07	1928.74
115 2-Pentanone					CAS #: 107-87-9		
7.032	7.031 (0.743)	43	6094951	200.000	202.80	80.00- 120.00	100.00(A)
7.032	7.031 (0.743)	58	460764			0.00- 37.44	7.56
7.032	7.031 (0.743)	86	784528			0.00- 42.78	12.87
145 Butyl Acetate					CAS #: 123-86-4		
8.665	8.665 (1.301)	56	3022342	200.000	196.12	80.00- 120.00	100.00
8.665	8.665 (1.301)	73	883323			0.00- 59.10	29.23
8.665	8.657 (1.301)	43	7358553			215.30- 275.30	243.47
157 1,1,1,2-Tetrachloroethane					CAS #: 630-20-6		
9.596	9.596 (1.014)	131	2663540	200.000	202.39	80.00- 120.00	100.00(A)
9.460	9.460 (1.000)	117	591968			57.42- 117.42	22.22
9.596	9.596 (1.014)	95	938731			5.70- 65.70	35.24
166 2-Heptanone					CAS #: 110-43-0		
10.362	10.362 (1.793)	58	4597454	200.000	204.09	80.00- 120.00	100.00(A)
10.362	10.362 (1.793)	43	7586394			136.03- 196.03	165.01
172 D-Limonene					CAS #: 5989-27-5		
12.089	12.089 (1.278)	68	3445097	200.000	257.71	80.00- 120.00	100.00(A)
12.089	12.089 (1.278)	93	2389612			39.41- 99.41	69.36
186 4-Chlorotoluene					CAS #: 106-43-4		
11.444	11.444 (1.210)	126	2390402	200.000	197.18	80.00- 120.00	100.00
11.444	11.444 (1.210)	91	7653013			295.02- 355.02	320.16
11.444	11.444 (1.210)	63	988176			11.82- 71.82	41.34
197 1,2,3-Trimethylbenzene					CAS #: 526-73-8		
12.318	12.318 (1.302)	120	3473836	200.000	196.80	80.00- 120.00	100.00
12.318	12.318 (1.302)	105	7726951			192.40- 252.40	222.43
12.318	12.318 (1.302)	77	848060			0.00- 54.69	24.41
205 Hexachloroethane					CAS #: 67-72-1		
12.970	12.970 (1.371)	201	1692084	200.000	243.84	80.00- 120.00	100.00(A)
12.963	12.970 (1.370)	117	2255610			102.99- 162.99	133.30

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
208 1,3,5-Trichlorobenzene					CAS #: 108-70-3		
13.758	13.758 (1.454)	180	4961639	200.000	199.94	80.00- 120.00	100.00
13.758	13.758 (1.454)	182	4745365			65.24- 125.24	95.64
210 alpha-Pinene					CAS #: 80-56-8		
10.599	10.599 (1.120)	93	5524082	200.000	225.60	80.00- 120.00	100.00(A)
10.599	10.599 (1.120)	77	1558779			0.00- 58.21	28.22
214 beta-Pinene					CAS #: 127-91-3		
11.423	11.422 (1.207)	93	3935444	200.000	245.48	80.00- 120.00	100.00(A)
11.444	11.444 (1.210)	91	7653013			153.57- 213.57	194.46

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p051921.d
Lab Smp Id: ICAL Level 9
Analysis Type: VOA
Quant Type: ISTD
Operator: gh
Method File: /chem/msdp.i/19MAY21.b/p21q0519a.m
Misc Info: 200ppbv (200ppbv)

Calibration Date: 19-MAY-2021
Calibration Time: 15:55
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	158810	95286	222334	153421	-3.39
108 1,4-Difluorobenze	597103	358262	835944	611809	2.46
153 Chlorobenzene-d5	587747	352648	822846	591968	0.72

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.78	5.45	6.11	5.78	-0.00
108 1,4-Difluorobenze	6.66	6.33	6.99	6.66	-0.00
153 Chlorobenzene-d5	9.46	9.13	9.79	9.46	-0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msdp.i/19MAY21.b/p051921.d

Date : 19-MAY-2021 22:39

Client ID:

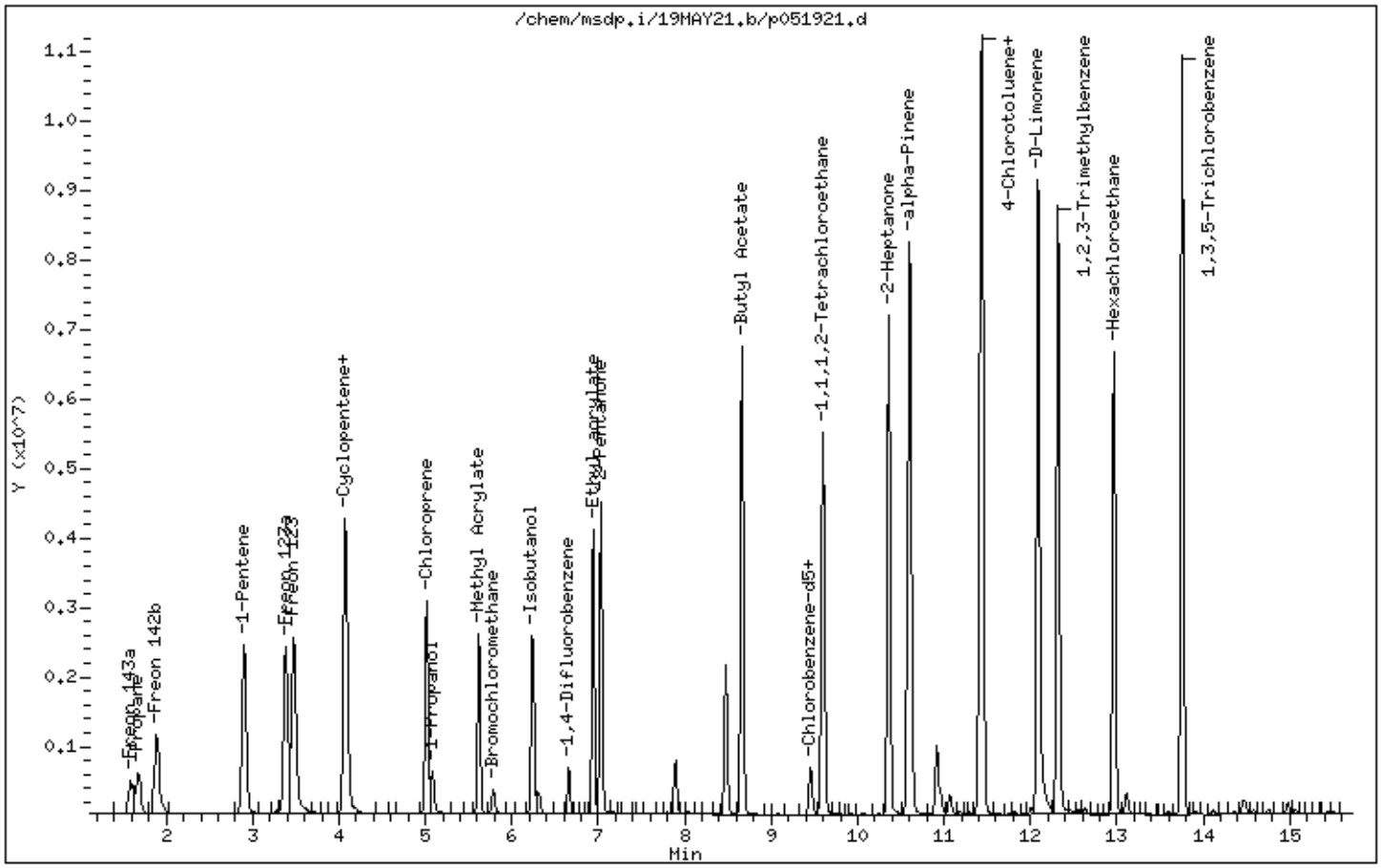
Instrument: msdp.i

Sample Info: 200mL 3018-2013

Operator: gh

Column phase: RTX-624

Column diameter: 0.25



US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/19MAY21.b/p051924.d
Lab Smp Id: ICAL Level 10
Inj Date : 20-MAY-2021 00:05
Operator : gh Inst ID: msdp.i
Smp Info : 20mL 3018-2045
Misc Info : 0.5ppbv (5.0ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/19MAY21.b/p21q0519a.m
Meth Date : 20-May-2021 09:50 lk8g Quant Type: ISTD
Cal Date : 20-MAY-2021 00:05 Cal File: p051924.d
Als bottle: 1 Calibration Sample, Level: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT20_Level2.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

					AMOUNTS			
					CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE		(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	=======	==========	=====
* 90 Bromochloromethane						CAS #: 74-97-5		
5.778	5.778 (1.000)	130	163846	25.0000			80.00- 120.00	100.00
5.778	5.778 (1.000)	128	127369				48.23- 108.23	77.74
5.771	5.778 (1.000)	49	298690				150.57- 210.57	182.30
* 108 1,4-Difluorobenzene						CAS #: 540-36-3		
6.659	6.659 (1.000)	114	600718	25.0000			80.00- 120.00	100.00
6.659	6.659 (1.000)	88	95422				0.00- 45.71	15.88
* 153 Chlorobenzene-d5						CAS #: 3114-55-4		
9.460	9.460 (1.000)	117	590361	25.0000			80.00- 120.00	100.00
9.460	9.460 (1.000)	82	322116				23.78- 83.78	54.56
$ 104 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
6.308	6.308 (1.092)	65	214241	25.0000	23.693		80.00- 120.00	100.00
6.308	6.308 (1.092)	67	108928				27.21- 87.21	50.84
$ 134 Toluene-d8						CAS #: 2037-26-5		
7.891	7.891 (1.185)	98	647924	25.0000	24.838		80.00- 120.00	100.00
7.891	7.891 (1.185)	70	71814				0.00- 40.44	11.08

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 134 Toluene-d8 (continued)							
7.891	7.891 (1.185)	100	419509			34.95- 94.95	64.75
$ 170 4-Bromofluorobenzene					CAS #: 460-00-4		
10.921	10.921 (1.154)	174	377731	25.0000	24.917	80.00- 120.00	100.00
10.914	10.921 (1.154)	95	484972			95.92- 155.92	128.39
10.921	10.921 (1.154)	176	368139			66.89- 126.89	97.46
8 Freon 12					CAS #: 75-71-8		
1.716	1.717 (0.297)	85	7389	0.50000	0.5028	80.00- 120.00	100.00
1.716	1.717 (0.297)	87	2098			2.37- 62.37	28.39
10 Freon 114					CAS #: 76-14-2		
1.842	1.856 (0.319)	135	5833	0.50000	0.4044	80.00- 120.00	100.00(a)
1.842	1.856 (0.319)	137	1678			2.30- 62.30	28.77
19 Vinyl Chloride					CAS #: 75-01-4		
2.068	2.068 (0.358)	62	5135	0.50000	0.5007	80.00- 120.00	100.00
2.053	2.068 (0.355)	64	2485			0.00- 59.69	48.39
20 1,3-Butadiene					CAS #: 106-99-0		
2.089	2.089 (0.362)	54	3780	0.50000	0.4582	80.00- 120.00	100.00(a)
2.082	2.089 (0.360)	39	3849			52.37- 112.37	101.83
33 Freon 11					CAS #: 75-69-4		
2.884	2.884 (0.499)	101	7721	0.50000	0.4944	80.00- 120.00	100.00(a)
2.877	2.884 (0.498)	103	5435			34.72- 94.72	70.39
43 Freon 113					CAS #: 76-13-1		
3.550	3.550 (0.614)	151	5639	0.50000	0.4860	80.00- 120.00	100.00(a)
3.550	3.550 (0.614)	153	3997			33.56- 93.56	70.88
3.543	3.550 (0.613)	101	6873			89.21- 149.21	121.88
44 1,1-Dichloroethene					CAS #: 75-35-4		
3.579	3.579 (0.619)	96	4090	0.50000	0.5901	80.00- 120.00	100.00
3.572	3.579 (0.618)	98	2595			34.02- 94.02	63.45
3.579	3.579 (0.619)	61	6008			168.77- 228.77	146.89
64 trans-1,2-Dichloroethene					CAS #: 156-60-5		
4.474	4.482 (0.774)	98	2538	0.50000	0.5480	80.00- 120.00	100.00
4.474	4.482 (0.774)	61	5211			255.84- 315.84	205.32
4.474	4.482 (0.774)	96	4298			127.59- 187.59	169.35
66 Acrylonitrile					CAS #: 107-13-1		
4.560	4.560 (0.789)	52	3141	0.50000	0.4872	80.00- 120.00	100.00(a)
4.553	4.560 (0.788)	53	3388			88.05- 148.05	107.86

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
67 Hexane					CAS #: 110-54-3		
4.689	4.697 (0.812)	57	8492	0.50000	0.5261	80.00- 120.00	100.00
4.696	4.697 (0.813)	43	5530			37.52- 97.52	65.12
4.696	4.697 (0.813)	86	877			0.00- 41.48	10.33
71 1,1-Dichloroethane					CAS #: 75-34-3		
4.961	4.962 (0.859)	63	5960	0.50000	0.4295	80.00- 120.00	100.00(a)
4.961	4.962 (0.859)	65	2369			0.00- 59.70	39.75
85 cis-1,2-Dichloroethene					CAS #: 156-59-2		
5.542	5.549 (0.959)	98	2716	0.50000	0.5651	80.00- 120.00	100.00
5.549	5.549 (0.960)	96	3855			125.75- 185.75	141.94
5.542	5.549 (0.959)	61	7686			332.40- 392.40	282.99
89 Tetrahydrofuran					CAS #: 109-99-9		
5.778	5.771 (1.000)	42	5568	0.50000	0.4521	80.00- 120.00	100.00(a)
5.778	5.771 (1.000)	71	1335			0.00- 55.82	23.98
5.778	5.771 (1.000)	72	1481			0.00- 57.59	26.60
92 Chloroform					CAS #: 67-66-3		
5.835	5.835 (1.010)	83	6763	0.50000	0.4744	80.00- 120.00	100.00(a)
5.835	5.835 (1.010)	85	4617			34.70- 94.70	68.27
94 Cyclohexane					CAS #: 110-82-7		
5.957	5.957 (1.031)	84	5877	0.50000	0.5702	80.00- 120.00	100.00
5.957	5.957 (1.031)	56	9323			142.57- 202.57	158.64
5.957	5.957 (1.031)	41	5136			62.09- 122.09	87.39
96 1,1,1-Trichloroethane					CAS #: 71-55-6		
5.964	5.972 (1.032)	97	8556	0.50000	0.5313	80.00- 120.00	100.00
5.964	5.972 (1.032)	99	5329			34.02- 94.02	62.28
97 Carbon Tetrachloride					CAS #: 56-23-5		
6.086	6.086 (1.053)	119	6718	0.50000	0.4448	80.00- 120.00	100.00(a)
6.086	6.086 (1.053)	117	6855			70.64- 130.64	102.04
101 2,2,4-Trimethylpentane					CAS #: 540-84-1		
6.279	6.280 (1.087)	57	27567	0.50000	0.4914	80.00- 120.00	100.00(a)
6.279	6.280 (1.087)	56	8468			2.24- 62.24	30.72
6.279	6.280 (1.087)	41	9487			0.00- 54.39	34.41
102 Benzene					CAS #: 71-43-2		
6.294	6.301 (0.945)	78	9954	0.50000	0.5021	80.00- 120.00	100.00
6.301	6.301 (0.946)	77	2384			0.00- 52.90	23.95
106 1,2-Dichloroethane					CAS #: 107-06-2		
6.380	6.380 (0.958)	62	4608	0.50000	0.4467	80.00- 120.00	100.00(a)

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
106 1,2-Dichloroethane (continued)							
6.380	6.380 (0.958)	64	1942			0.79- 60.79	42.14
107 Heptane						CAS #: 142-82-5	
6.444	6.444 (0.968)	71	4203	0.50000	0.5352	80.00- 120.00	100.00
6.444	6.444 (0.968)	43	9247			226.53- 286.53	220.01
6.444	6.444 (0.968)	57	5163			100.85- 160.85	122.84
111 Trichloroethene						CAS #: 79-01-6	
6.867	6.867 (1.031)	95	4879	0.50000	0.5072	80.00- 120.00	100.00
6.867	6.867 (1.031)	130	4525			76.29- 136.29	92.74
6.867	6.867 (1.031)	97	2893			33.63- 93.63	59.29
114 1,2-Dichloropropane						CAS #: 78-87-5	
7.089	7.089 (1.065)	63	5364	0.50000	0.5278	80.00- 120.00	100.00
7.096	7.089 (1.066)	62	3356			41.07- 101.07	62.57
7.096	7.089 (1.066)	41	2982			22.53- 82.53	55.59
118 Dibromomethane						CAS #: 74-95-3	
7.211	7.204 (0.762)	174	3904	0.50000	0.4456	80.00- 120.00	100.00(a)
7.204	7.204 (0.761)	93	4176			60.09- 120.09	106.97
7.204	7.204 (0.761)	95	4289			48.38- 108.38	109.86
122 Bromodichloromethane						CAS #: 75-27-4	
7.318	7.318 (1.099)	83	6924	0.50000	0.4642	80.00- 120.00	100.00(a)
7.318	7.318 (1.099)	85	4799			35.24- 95.24	69.31
126 cis-1,3-Dichloropropene						CAS #: 10061-01-5	
7.691	7.691 (1.155)	75	6237	0.50000	0.4950	80.00- 120.00	100.00(a)
7.691	7.691 (1.155)	77	2224			2.42- 62.42	35.66
7.698	7.691 (1.156)	39	4083			37.16- 97.16	65.46
127 Methylcyclohexane						CAS #: 108-87-2	
6.974	6.974 (1.047)	83	7108	0.50000	0.5106	80.00- 120.00	100.00(a)
6.974	6.974 (1.047)	98	3734			15.78- 75.78	52.53
6.967	6.974 (1.046)	55	8514			84.64- 144.64	119.78
131 4-Methyl-2-pentanone						CAS #: 108-10-1	
7.791	7.791 (1.170)	58	5902	0.50000	0.5719	80.00- 120.00	100.00
7.791	7.791 (1.170)	43	15074			242.35- 302.35	255.40
7.798	7.791 (1.171)	85	2388			3.24- 63.24	40.46
137 Toluene						CAS #: 108-88-3	
7.948	7.949 (1.194)	91	13680	0.50000	0.5002	80.00- 120.00	100.00
7.948	7.949 (1.194)	92	7825			28.38- 88.38	57.20

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
136 Octane					CAS #: 111-65-9		
7.941	7.949 (1.193)	57	6357	0.50000	0.5451	80.00- 120.00	100.00
7.941	7.949 (1.193)	85	5775			56.00- 116.00	90.84
7.941	7.949 (1.193)	43	15538			228.66- 288.66	244.42
139 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
8.213	8.214 (0.868)	75	5304	0.50000	0.4565	80.00- 120.00	100.00(a)
8.213	8.214 (0.868)	77	3481			1.24- 61.24	65.63
8.213	8.214 (0.868)	39	3904			34.11- 94.11	73.60
141 1,1,2-Trichloroethane					CAS #: 79-00-5		
8.393	8.400 (0.887)	97	5286	0.50000	0.5505	80.00- 120.00	100.00
8.400	8.400 (0.888)	99	2785			31.96- 91.96	52.69
8.400	8.400 (0.888)	83	4153			52.93- 112.93	78.57
142 Tetrachloroethene					CAS #: 127-18-4		
8.464	8.464 (0.895)	166	5918	0.50000	0.4398	80.00- 120.00	100.00(a)
8.464	8.464 (0.895)	129	5123			47.84- 107.84	86.57
8.464	8.464 (0.895)	131	4693			45.29- 105.29	79.30
144 1,3-Dichloropropane					CAS #: 142-28-9		
8.579	8.579 (1.288)	76	5918	0.50000	0.4556	80.00- 120.00	100.00(a)
8.579	8.579 (1.288)	41	8417			94.99- 154.99	142.23
8.579	8.579 (1.288)	78	2554			2.05- 62.05	43.16
146 Dibromochloromethane					CAS #: 124-48-1		
8.801	8.801 (0.930)	129	8255	0.50000	0.4601	80.00- 120.00	100.00(a)
8.794	8.801 (0.930)	127	6763			47.45- 107.45	81.93
148 1,2-Dibromoethane (EDB)					CAS #: 106-93-4		
8.951	8.951 (0.946)	107	7230	0.50000	0.4694	80.00- 120.00	100.00(a)
8.951	8.951 (0.946)	109	7175			64.21- 124.21	99.24
154 Chlorobenzene					CAS #: 108-90-7		
9.496	9.496 (1.004)	112	11778	0.50000	0.5024	80.00- 120.00	100.00
9.489	9.496 (1.003)	114	3810			1.74- 61.74	32.35
9.489	9.496 (1.003)	77	11483			25.04- 85.04	97.50
155 Ethyl Benzene					CAS #: 100-41-4		
9.567	9.567 (1.011)	106	6206	0.50000	0.5063	80.00- 120.00	100.00
9.567	9.567 (1.011)	91	18714			273.74- 333.74	301.55
158 m,p-Xylene					CAS #: 108-38-3		
9.718	9.718 (1.027)	106	8198	0.50000	0.5340	80.00- 120.00	100.00
9.711	9.718 (1.026)	91	15993			163.73- 223.73	195.08

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
164 o-Xylene					CAS #: 95-47-6		
10.226	10.226 (1.081)	106	7282	0.50000	0.4950	80.00- 120.00	100.00(a)
10.226	10.226 (1.081)	91	15872			177.45- 237.45	217.96
165 Styrene					CAS #: 100-42-5		
10.255	10.255 (1.084)	104	13110	0.50000	0.5212	80.00- 120.00	100.00
10.255	10.255 (1.084)	78	6253			17.88- 77.88	47.70
167 Bromoform					CAS #: 75-25-2		
10.549	10.542 (1.115)	173	8542	0.50000	0.4830	80.00- 120.00	100.00(a)
10.549	10.542 (1.115)	171	4517			21.25- 81.25	52.88
168 Cumene					CAS #: 98-82-8		
10.649	10.649 (1.126)	105	23217	0.50000	0.5024	80.00- 120.00	100.00
10.649	10.649 (1.126)	120	6594			0.00- 58.52	28.40
10.649	10.649 (1.126)	51	3671			0.00- 43.00	15.81
175 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
11.107	11.100 (1.174)	83	11440	0.50000	0.5072	80.00- 120.00	100.00
11.107	11.100 (1.174)	85	7316			35.20- 95.20	63.95
178 Propylbenzene					CAS #: 103-65-1		
11.150	11.150 (1.179)	120	6965	0.50000	0.5084	80.00- 120.00	100.00
11.150	11.150 (1.179)	91	26590			366.49- 426.49	381.77
11.150	11.150 (1.179)	105	910			0.00- 44.85	13.07
179 1,2,3-Trichloropropane					CAS #: 96-18-4		
11.179	11.179 (1.182)	110	4008	0.50000	0.5576	80.00- 120.00	100.00
11.179	11.179 (1.182)	75	11313			280.55- 340.55	282.26
11.100	11.100 (1.173)	61	1733			15.49- 75.49	43.24
183 4-Ethyltoluene					CAS #: 622-96-8		
11.286	11.287 (1.193)	120	8376	0.50000	0.5622	80.00- 120.00	100.00
11.286	11.287 (1.193)	105	23951			284.55- 344.55	285.95
184 2-Chlorotoluene					CAS #: 95-49-8		
11.308	11.308 (1.195)	126	6216	0.50000	0.5328	80.00- 120.00	100.00
11.308	11.308 (1.195)	91	20231			315.17- 375.17	325.47
11.294	11.301 (1.194)	65	3746			21.55- 81.55	60.26
185 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
11.358	11.365 (1.201)	120	10383	0.50000	0.5061	80.00- 120.00	100.00
11.358	11.365 (1.201)	105	18974			164.93- 224.93	182.74
188 alpha Methyl Styrene					CAS #: 98-83-9		
11.645	11.645 (1.231)	118	9624	0.50000	0.4722	80.00- 120.00	100.00(a)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
188 alpha Methyl Styrene (continued)							
11.645	11.645 (1.231)	103	5344			25.30- 85.30	55.53
190 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
11.816	11.817 (1.249)	105	19402	0.50000	0.5011	80.00- 120.00	100.00
11.816	11.817 (1.249)	120	9573			19.05- 79.05	49.34
192 sec-Butylbenzene					CAS #: 135-98-8		
11.996	11.996 (1.268)	134	6002	0.50000	0.5033	80.00- 120.00	100.00
11.996	11.996 (1.268)	105	29055			437.55- 497.55	484.09
11.996	11.996 (1.268)	91	4721			40.76- 100.76	78.66
194 p-Cymene					CAS #: 99-87-6		
12.153	12.160 (1.285)	119	27397	0.50000	0.5198	80.00- 120.00	100.00(a)
12.160	12.160 (1.285)	134	6978			0.00- 55.54	25.47
12.153	12.153 (1.285)	91	6676			0.00- 51.48	24.37
195 1,3-Dichlorobenzene					CAS #: 541-73-1		
12.203	12.196 (1.290)	146	12900	0.50000	0.4867	80.00- 120.00	100.00(a)
12.203	12.196 (1.290)	148	8737			33.21- 93.21	67.73
12.203	12.196 (1.290)	111	5935			11.31- 71.31	46.01
196 1,4-Dichlorobenzene					CAS #: 106-46-7		
12.311	12.311 (1.301)	146	13252	0.50000	0.4948	80.00- 120.00	100.00(a)
12.311	12.311 (1.301)	148	8912			33.90- 93.90	67.25
12.311	12.311 (1.301)	111	5613			9.45- 69.45	42.36
199 alpha-Chlorotoluene					CAS #: 100-44-7		
12.461	12.461 (1.317)	91	18333	0.50000	0.4985	80.00- 120.00	100.00(a)
12.461	12.461 (1.317)	126	4052			0.00- 53.26	22.10
202 Butylbenzene					CAS #: 104-51-8		
12.626	12.626 (1.335)	134	6974	0.50000	0.5210	80.00- 120.00	100.00
12.626	12.626 (1.335)	91	24024			314.79- 374.79	344.48
12.626	12.626 (1.335)	92	13531			154.29- 214.29	194.02
204 1,2-Dichlorobenzene					CAS #: 95-50-1		
12.733	12.741 (1.346)	146	13316	0.50000	0.5124	80.00- 120.00	100.00
12.741	12.741 (1.347)	148	8543			33.84- 93.84	64.16
12.733	12.741 (1.346)	111	6040			12.73- 72.73	45.36
207 Dodecane					CAS #: 112-40-3		
13.801	13.801 (1.459)	57	22758	0.61800	0.6916	80.00- 120.00	100.00(a)
13.801	13.801 (1.459)	43	20608			52.87- 112.87	90.55

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p051924.d
Lab Smp Id: ICAL Level 10
Analysis Type: VOA
Quant Type: ISTD
Operator: gh
Method File: /chem/msdp.i/19MAY21.b/p21q0519a.m
Misc Info: 0.5ppbv (5.0ppbv)

Calibration Date: 19-MAY-2021
Calibration Time: 15:55
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	158810	95286	222334	163846	3.17
108 1,4-Difluorobenze	597103	358262	835944	600718	0.61
153 Chlorobenzene-d5	587747	352648	822846	590361	0.44

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.78	5.45	6.11	5.78	-0.00
108 1,4-Difluorobenze	6.66	6.33	6.99	6.66	-0.00
153 Chlorobenzene-d5	9.46	9.13	9.79	9.46	-0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msdp.i/19MAY21.b/p051924.d

Date : 20-MAY-2021 00:05

Client ID:

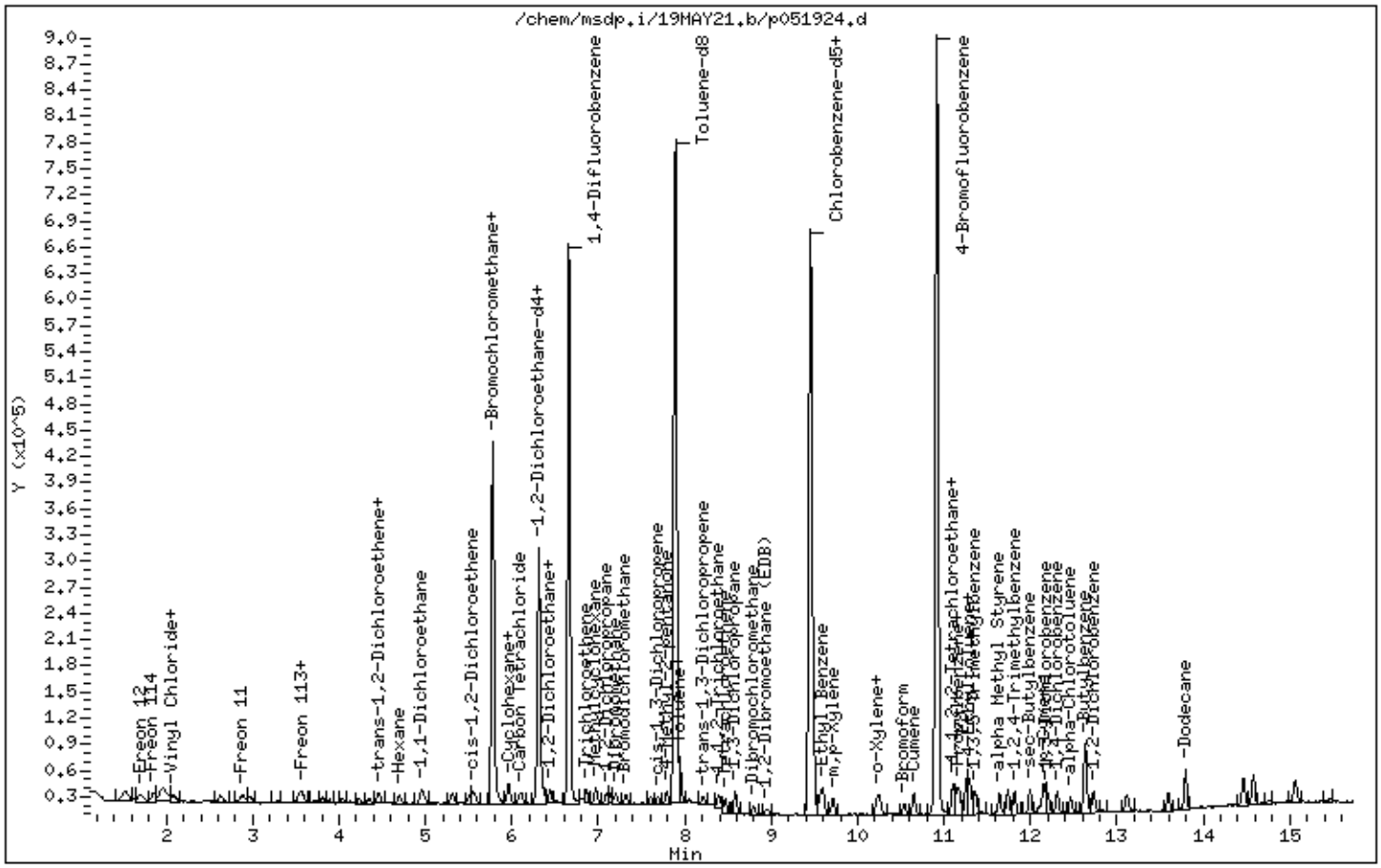
Instrument: msdp.i

Sample Info: 20mL 3018-2045

Operator: gh

Column phase: RTX-624

Column diameter: 0.25



US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/19MAY21.b/p051925.d
Lab Smp Id: ICV Client Smp ID: ICV
Inj Date : 20-MAY-2021 00:33
Operator : gh Inst ID: msdp.i
Smp Info : 50mL 3018-2016
Misc Info : 50ppbv (200ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/19MAY21.b/p21q0519a.m
Meth Date : 20-May-2021 11:31 lk8g Quant Type: ISTD
Cal Date : 19-MAY-2021 19:45 Cal File: p051915.d
Als bottle: 14 QC Sample: ICV
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT20LCS_new.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE		(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 90 Bromochloromethane						CAS #: 74-97-5		
5.778	5.778 (1.000)	130	159261	25.0000			80.00- 120.00	100.00
5.778	5.778 (1.000)	128	123314				48.23- 108.23	77.43
5.778	5.778 (1.000)	49	287112				150.57- 210.57	180.28
* 108 1,4-Difluorobenzene						CAS #: 540-36-3		
6.659	6.659 (1.000)	114	599327	25.0000			80.00- 120.00	100.00
6.659	6.659 (1.000)	88	93610				0.00- 45.71	15.62
* 153 Chlorobenzene-d5						CAS #: 3114-55-4		
9.460	9.460 (1.000)	117	583008	25.0000			80.00- 120.00	100.00
9.460	9.460 (1.000)	82	317926				23.78- 83.78	54.53
$ 104 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
6.308	6.308 (1.092)	65	217297	24.7232	24.723		80.00- 120.00	100.00
6.308	6.308 (1.092)	67	123853				27.21- 87.21	57.00
$ 134 Toluene-d8						CAS #: 2037-26-5		
7.891	7.891 (1.185)	98	648333	24.9118	24.912		80.00- 120.00	100.00
7.891	7.891 (1.185)	70	65745				0.00- 40.44	10.14

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 134 Toluene-d8 (continued)							
7.891	7.891 (1.185)	100	421967			34.95- 94.95	65.08
$ 170 4-Bromofluorobenzene					CAS #: 460-00-4		
10.921	10.921 (1.154)	174	376160	25.1259	25.126	80.00- 120.00	100.00
10.921	10.921 (1.154)	95	479143			95.92- 155.92	127.38
10.921	10.921 (1.154)	176	367133			66.89- 126.89	97.60
4 Freon 134a					CAS #: 811-97-2		
1.633	1.633 (0.283)	83	269381	53.4416	53.442	80.00- 120.00	100.00
1.633	1.633 (0.283)	69	238008			59.44- 119.44	88.35
1.745	1.745 (0.302)	51	1146080			419.06- 479.06	425.45
5 Propylene					CAS #: 115-07-1		
1.675	1.675 (0.290)	41	351150	48.1826	48.182	80.00- 120.00	100.00
1.675	1.675 (0.290)	42	231660			35.28- 95.28	65.97
1.675	1.675 (0.290)	39	239136			38.35- 98.35	68.10
7 1,1-Difluoroethane					CAS #: 75-37-6		
1.703	1.703 (0.295)	65	184945	51.2320	51.232	80.00- 120.00	100.00
1.745	1.745 (0.302)	51	1146080			597.63- 657.63	619.69
1.703	1.703 (0.295)	47	118519			33.72- 93.72	64.08
8 Freon 12					CAS #: 75-71-8		
1.717	1.717 (0.297)	85	729033	51.0385	51.038	80.00- 120.00	100.00
1.717	1.717 (0.297)	87	236858			2.37- 62.37	32.49
9 Chlorodifluoromethane					CAS #: 75-45-6		
1.745	1.745 (0.302)	67	72194	51.1662	51.166	80.00- 120.00	100.00
1.745	1.745 (0.302)	51	1146080			1501.01-1561.01	1587.50
10 Freon 114					CAS #: 76-14-2		
1.856	1.856 (0.321)	135	701038	49.9978	49.998	80.00- 120.00	100.00
1.856	1.856 (0.321)	137	225650			2.30- 62.30	32.19
12 Isobutane					CAS #: 75-28-5		
1.870	1.870 (0.324)	43	765128	47.4212	47.421	80.00- 120.00	100.00
1.870	1.870 (0.324)	42	246889			2.44- 62.44	32.27
1.856	1.856 (0.321)	58	25257			0.00- 33.36	3.30
15 Chloromethane					CAS #: 74-87-3		
1.940	1.940 (0.336)	50	437995	52.8545	52.854	80.00- 120.00	100.00
1.940	1.940 (0.336)	52	114348			0.00- 56.26	26.11
18 Butane					CAS #: 106-97-8		
2.025	2.025 (0.350)	58	80145	41.7506	41.751	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
18 Butane (continued)							
2.025	2.025 (0.350)	43	645591			823.29- 883.29	805.53
19 Vinyl Chloride					CAS #: 75-01-4		
2.068	2.068 (0.358)	62	464010	46.5443	46.544	80.00- 120.00	100.00
2.068	2.068 (0.358)	64	139745			0.00- 59.69	30.12
20 1,3-Butadiene					CAS #: 106-99-0		
2.089	2.089 (0.362)	54	446648	55.7047	55.705	80.00- 120.00	100.00
2.089	2.089 (0.362)	39	360563			52.37- 112.37	80.73
24 Bromomethane					CAS #: 74-83-9		
2.483	2.483 (0.430)	94	297578	46.4227	46.423	80.00- 120.00	100.00
2.483	2.483 (0.430)	96	278799			64.07- 124.07	93.69
30 Chloroethane					CAS #: 75-00-3		
2.612	2.612 (0.452)	64	171538	47.8510	47.851	80.00- 120.00	100.00
2.612	2.612 (0.452)	66	50751			0.04- 60.04	29.59
2.612	2.612 (0.452)	49	59140			4.54- 64.54	34.48
31 Isopentane					CAS #: 78-78-4		
2.634	2.634 (0.456)	43	529089	48.5043	48.504	80.00- 120.00	100.00
2.634	2.634 (0.456)	57	338228			34.12- 94.12	63.93
32 Vinyl Bromide					CAS #: 593-60-2		
2.841	2.841 (0.492)	106	279438	47.1623	47.162	80.00- 120.00	100.00
2.841	2.841 (0.492)	108	273101			69.27- 129.27	97.73
33 Freon 11					CAS #: 75-69-4		
2.884	2.884 (0.499)	101	742373	48.9075	48.908	80.00- 120.00	100.00
2.884	2.884 (0.499)	103	483442			34.72- 94.72	65.12
34 Dichlorofluoromethane					CAS #: 75-43-4		
2.899	2.899 (0.502)	67	646344	49.4042	49.404	80.00- 120.00	100.00
2.899	2.899 (0.502)	69	195128			0.84- 60.84	30.19
35 Pentane					CAS #: 109-66-0		
2.970	2.970 (0.514)	43	832217	46.9376	46.938	80.00- 120.00	100.00
2.970	2.970 (0.514)	57	122475			0.00- 44.98	14.72
2.970	2.970 (0.514)	72	59490			0.00- 37.39	7.15
38 Ethyl Ether					CAS #: 60-29-7		
3.285	3.285 (0.569)	74	152084	50.8427	50.843	80.00- 120.00	100.00
3.285	3.285 (0.569)	59	294053			163.46- 223.46	193.35
3.285	3.285 (0.569)	45	421334			250.40- 310.40	277.04

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
39 Ethanol					CAS #: 64-17-5		
3.242	3.242 (0.561)	46	73066	46.2624	46.262	80.00- 120.00	100.00
3.285	3.242 (0.569)	45	419314			511.19- 571.19	573.88
42 Acrolein					CAS #: 107-02-8		
3.536	3.529 (0.612)	55	138287	50.4592	50.459	80.00- 120.00	100.00
3.536	3.529 (0.612)	56	194444			111.10- 171.10	140.61
43 Freon 113					CAS #: 76-13-1		
3.550	3.550 (0.614)	151	550653	48.8270	48.827	80.00- 120.00	100.00
3.550	3.550 (0.614)	153	354592			33.56- 93.56	64.39
3.550	3.550 (0.614)	101	666533			89.21- 149.21	121.04
44 1,1-Dichloroethene					CAS #: 75-35-4		
3.579	3.579 (0.619)	96	337843	50.1462	50.146	80.00- 120.00	100.00
3.579	3.579 (0.619)	98	214195			34.02- 94.02	63.40
3.579	3.579 (0.619)	61	675008			168.77- 228.77	199.80
47 Acetone					CAS #: 67-64-1		
3.715	3.708 (0.643)	58	199513	47.7852	47.785	80.00- 120.00	100.00
3.715	3.708 (0.643)	43	667100			302.95- 362.95	334.36
48 Carbon Disulfide					CAS #: 75-15-0		
3.823	3.823 (0.662)	76	862293	48.5817	48.582	80.00- 120.00	100.00
49 Iodomethane					CAS #: 74-88-4		
3.794	3.794 (0.657)	142	700808	59.3954	59.395	80.00- 120.00	100.00
3.794	3.794 (0.657)	127	293044			12.22- 72.22	41.82
52 2-Propanol					CAS #: 67-63-0		
3.887	3.887 (0.673)	45	849259	50.4689	50.469	80.00- 120.00	100.00
3.887	3.887 (0.673)	43	140946			0.00- 47.19	16.60
54 3-Chloropropene					CAS #: 107-05-1		
4.045	4.052 (0.700)	76	145308	49.0044	49.004	80.00- 120.00	100.00
4.045	4.052 (0.700)	41	618664			396.19- 456.19	425.76
57 Acetonitrile					CAS #: 75-05-8		
4.123	4.123 (0.714)	41	381456	48.6371	48.637	80.00- 120.00	100.00
4.123	4.123 (0.714)	40	193635			20.95- 80.95	50.76
4.123	4.123 (0.714)	38	41374			0.00- 41.17	10.85
59 Methylene Chloride					CAS #: 75-09-2		
4.238	4.238 (0.733)	49	531632	49.0219	49.022	80.00- 120.00	100.00
4.238	4.238 (0.733)	84	271047			22.03- 82.03	50.98
4.238	4.238 (0.733)	51	161032			0.18- 60.18	30.29

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
62 tert-Butyl alcohol					CAS #: 75-65-0		
4.338	4.338 (0.751)	59	909661	46.3560	46.356	80.00- 120.00	100.00
4.338	4.338 (0.751)	41	192086			0.00- 51.11	21.12
4.338	4.338 (0.751)	57	96676			0.00- 40.49	10.63
63 Methyl tert-butyl ether					CAS #: 1634-04-4		
4.446	4.446 (0.769)	73	942632	48.1957	48.196	80.00- 120.00	100.00
4.446	4.446 (0.769)	57	317705			3.10- 63.10	33.70
4.446	4.446 (0.769)	41	299560			1.28- 61.28	31.78
64 trans-1,2-Dichloroethene					CAS #: 156-60-5		
4.474	4.482 (0.774)	98	218803	48.6055	48.605	80.00- 120.00	100.00
4.474	4.482 (0.774)	61	620102			255.84- 315.84	283.41
4.474	4.482 (0.774)	96	343318			127.59- 187.59	156.91
66 Acrylonitrile					CAS #: 107-13-1		
4.560	4.560 (0.789)	52	303698	48.4637	48.464	80.00- 120.00	100.00
4.560	4.560 (0.789)	53	359381			88.05- 148.05	118.33
67 Hexane					CAS #: 110-54-3		
4.697	4.697 (0.813)	57	776348	49.4834	49.483	80.00- 120.00	100.00
4.697	4.697 (0.813)	43	525013			37.52- 97.52	67.63
4.697	4.697 (0.813)	86	88068			0.00- 41.48	11.34
71 1,1-Dichloroethane					CAS #: 75-34-3		
4.962	4.962 (0.859)	63	682714	50.6181	50.618	80.00- 120.00	100.00
4.962	4.962 (0.859)	65	199004			0.00- 59.70	29.15
72 Isopropyl ether					CAS #: 108-20-3		
4.947	4.954 (0.856)	45	1790476	49.0696	49.070	80.00- 120.00	100.00
4.954	4.954 (0.857)	87	321907			0.00- 48.18	17.98
4.954	4.954 (0.857)	59	180794			0.00- 40.15	10.10
73 Vinyl Acetate					CAS #: 108-05-4		
4.997	4.997 (0.865)	86	88227	50.8989	50.899	80.00- 120.00	100.00
4.990	4.997 (0.864)	43	2127436			2432.48-2492.48	2411.32
79 Ethyl-tert-butyl ether					CAS #: 637-92-3		
5.305	5.305 (0.918)	59	1542046	48.8215	48.821	80.00- 120.00	100.00
5.305	5.305 (0.918)	87	471804			1.00- 61.00	30.60
5.305	5.305 (0.918)	41	285817			0.00- 48.73	18.53
84 2,2-Dichloropropane					CAS #: 594-20-7		
5.506	5.506 (0.953)	77	590380	49.2930	49.293	80.00- 120.00	100.00
5.506	5.506 (0.953)	79	190828			2.28- 62.28	32.32
5.513	5.506 (0.954)	97	143176			0.00- 53.93	24.25

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
85 cis-1,2-Dichloroethene					CAS #: 156-59-2		
5.549	5.549 (0.960)	98	233240	49.9273	49.927	80.00- 120.00	100.00
5.549	5.549 (0.960)	96	363999			125.75- 185.75	156.06
5.549	5.549 (0.960)	61	845213			332.40- 392.40	362.38
86 2-Butanone					CAS #: 78-93-3		
5.556	5.556 (0.962)	72	172909	48.0341	48.034	80.00- 120.00	100.00
5.563	5.556 (0.963)	43	2166913			1214.50-1274.50	1253.21
5.556	5.556 (0.962)	57	75659			14.68- 74.68	43.76
87 Ethyl Acetate					CAS #: 141-78-6		
5.570	5.570 (0.964)	45	177582	49.5968	49.597	80.00- 120.00	100.00
5.549	5.549 (0.960)	61	845213			452.04- 512.04	475.96
5.570	5.570 (0.964)	70	92639			22.77- 82.77	52.17
89 Tetrahydrofuran					CAS #: 109-99-9		
5.771	5.771 (0.999)	42	596496	49.8249	49.825	80.00- 120.00	100.00
5.771	5.771 (0.999)	71	151172			0.00- 55.82	25.34
5.771	5.771 (0.999)	72	164276			0.00- 57.59	27.54
92 Chloroform					CAS #: 67-66-3		
5.835	5.835 (1.010)	83	698985	50.4429	50.443	80.00- 120.00	100.00
5.835	5.835 (1.010)	85	450734			34.70- 94.70	64.48
94 Cyclohexane					CAS #: 110-82-7		
5.957	5.957 (1.031)	84	484683	48.3805	48.380	80.00- 120.00	100.00
5.957	5.957 (1.031)	56	852306			142.57- 202.57	175.85
5.957	5.957 (1.031)	41	457785			62.09- 122.09	94.45
96 1,1,1-Trichloroethane					CAS #: 71-55-6		
5.972	5.972 (1.033)	97	760233	48.5642	48.564	80.00- 120.00	100.00
5.972	5.972 (1.033)	99	490526			34.02- 94.02	64.52
97 Carbon Tetrachloride					CAS #: 56-23-5		
6.086	6.086 (1.053)	119	745174	50.7546	50.755	80.00- 120.00	100.00
6.086	6.086 (1.053)	117	752839			70.64- 130.64	101.03
99 1,1-Dichloropropene					CAS #: 563-58-6		
6.115	6.115 (0.918)	110	203160	49.7993	49.799	80.00- 120.00	100.00
6.115	6.115 (0.918)	75	511996			226.85- 286.85	252.02
101 2,2,4-Trimethylpentane					CAS #: 540-84-1		
6.280	6.280 (1.087)	57	2687519	49.2841	49.284	80.00- 120.00	100.00
6.280	6.280 (1.087)	56	862052			2.24- 62.24	32.08
6.280	6.280 (1.087)	41	651161			0.00- 54.39	24.23

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
102 Benzene					CAS #: 71-43-2		
6.301	6.301 (0.946)	78	1008062	50.9701	50.970	80.00- 120.00	100.00
6.301	6.301 (0.946)	77	234415			0.00- 52.90	23.25
105 tert-Amyl methyl ether					CAS #: 994-05-8		
6.358	6.358 (0.955)	87	277129	49.6938	49.694	80.00- 120.00	100.00
6.358	6.358 (0.955)	73	1123129			372.79- 432.79	405.27
6.358	6.358 (0.955)	55	386701			112.09- 172.09	139.54
106 1,2-Dichloroethane					CAS #: 107-06-2		
6.380	6.380 (0.958)	62	539745	52.4480	52.448	80.00- 120.00	100.00
6.380	6.380 (0.958)	64	168125			0.79- 60.79	31.15
107 Heptane					CAS #: 142-82-5		
6.444	6.444 (0.968)	71	404133	51.5803	51.580	80.00- 120.00	100.00
6.444	6.444 (0.968)	43	1034181			226.53- 286.53	255.90
6.444	6.444 (0.968)	57	534196			100.85- 160.85	132.18
110 n-Butanol					CAS #: 71-36-3		
6.810	6.810 (1.023)	56	349325	48.5815	48.581	80.00- 120.00	100.00
6.810	6.810 (1.023)	41	250704			40.99- 100.99	71.77
6.810	6.810 (1.023)	43	202468			27.38- 87.38	57.96
111 Trichloroethene					CAS #: 79-01-6		
6.867	6.867 (1.031)	95	487275	50.7743	50.774	80.00- 120.00	100.00
6.867	6.867 (1.031)	130	525030			76.29- 136.29	107.75
6.867	6.867 (1.031)	97	316440			33.63- 93.63	64.94
114 1,2-Dichloropropane					CAS #: 78-87-5		
7.089	7.089 (1.065)	63	501779	49.4882	49.488	80.00- 120.00	100.00
7.089	7.089 (1.065)	62	357412			41.07- 101.07	71.23
7.096	7.089 (1.066)	41	260924			22.53- 82.53	52.00
116 Methyl Methacrylate					CAS #: 80-62-6		
7.139	7.132 (0.755)	69	396710	49.5227	49.523	80.00- 120.00	100.00
7.132	7.132 (0.754)	41	847515			179.84- 239.84	213.64
7.139	7.139 (0.755)	100	159570			9.59- 69.59	40.22
117 1,4-Dioxane					CAS #: 123-91-1		
7.175	7.175 (1.077)	88	259955	48.2421	48.242	80.00- 120.00	100.00
7.175	7.175 (1.077)	58	255954			68.28- 128.28	98.46
7.175	7.175 (1.077)	57	86664			2.68- 62.68	33.34
118 Dibromomethane					CAS #: 74-95-3		
7.204	7.204 (0.761)	174	458044	52.9443	52.944	80.00- 120.00	100.00
7.204	7.204 (0.761)	93	407519			60.09- 120.09	88.97

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
118 Dibromomethane (continued)							
7.204	7.204 (0.761)	95	354189			48.38- 108.38	77.33
122 Bromodichloromethane					CAS #: 75-27-4		
7.318	7.318 (1.099)	83	770056	51.7510	51.751	80.00- 120.00	100.00
7.318	7.318 (1.099)	85	492807			35.24- 95.24	64.00
126 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.691	7.691 (1.155)	75	636121	50.6019	50.602	80.00- 120.00	100.00
7.691	7.691 (1.155)	77	200691			2.42- 62.42	31.55
7.691	7.691 (1.155)	39	434030			37.16- 97.16	68.23
127 Methylcyclohexane					CAS #: 108-87-2		
6.974	6.974 (1.047)	83	691986	49.8280	49.828	80.00- 120.00	100.00
6.974	6.974 (1.047)	98	322440			15.78- 75.78	46.60
6.974	6.974 (1.047)	55	795373			84.64- 144.64	114.94
131 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.791	7.791 (1.170)	58	480926	46.7077	46.708	80.00- 120.00	100.00
7.791	7.791 (1.170)	43	1325477			242.35- 302.35	275.61
7.798	7.791 (1.171)	85	161202			3.24- 63.24	33.52
137 Toluene					CAS #: 108-88-3		
7.949	7.949 (1.194)	91	1343637	49.2421	49.242	80.00- 120.00	100.00
7.949	7.949 (1.194)	92	787609			28.38- 88.38	58.62
136 Octane					CAS #: 111-65-9		
7.949	7.949 (1.194)	57	566390	48.6818	48.682	80.00- 120.00	100.00
7.949	7.949 (1.194)	85	479927			56.00- 116.00	84.73
7.949	7.949 (1.194)	43	1456775			228.66- 288.66	257.20
139 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
8.214	8.214 (0.868)	75	600175	52.3121	52.312	80.00- 120.00	100.00
8.214	8.214 (0.868)	77	190922			1.24- 61.24	31.81
8.214	8.214 (0.868)	39	389221			34.11- 94.11	64.85
141 1,1,2-Trichloroethane					CAS #: 79-00-5		
8.400	8.400 (0.888)	97	476355	50.2326	50.232	80.00- 120.00	100.00
8.400	8.400 (0.888)	99	296859			31.96- 91.96	62.32
8.400	8.400 (0.888)	83	396895			52.93- 112.93	83.32
142 Tetrachloroethene					CAS #: 127-18-4		
8.464	8.464 (0.895)	166	682961	51.3998	51.400	80.00- 120.00	100.00
8.464	8.464 (0.895)	129	535513			47.84- 107.84	78.41
8.464	8.464 (0.895)	131	516602			45.29- 105.29	75.64

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
143 2-Hexanone					CAS #: 591-78-6		
8.586	8.586 (0.908)	58	657966	48.5640	48.564	80.00- 120.00	100.00
8.586	8.586 (0.908)	43	1278689			162.87- 222.87	194.34
8.586	8.586 (0.908)	100	102219			0.00- 45.94	15.54
144 1,3-Dichloropropane					CAS #: 142-28-9		
8.579	8.579 (1.288)	76	649887	50.1538	50.154	80.00- 120.00	100.00
8.579	8.579 (1.288)	41	820466			94.99- 154.99	126.25
8.579	8.579 (1.288)	78	211986			2.05- 62.05	32.62
146 Dibromochloromethane					CAS #: 124-48-1		
8.801	8.801 (0.930)	129	922140	52.0444	52.044	80.00- 120.00	100.00
8.801	8.801 (0.930)	127	712882			47.45- 107.45	77.31
148 1,2-Dibromoethane (EDB)					CAS #: 106-93-4		
8.951	8.951 (0.946)	107	783569	51.5187	51.519	80.00- 120.00	100.00
8.951	8.951 (0.946)	109	740572			64.21- 124.21	94.51
151 1-Bromo-2-Chloroethane					CAS #: 107-04-0		
7.605	7.605 (1.142)	63	920567	49.4826	49.482	80.00- 120.00	100.00
7.605	7.605 (1.142)	65	271612			0.00- 59.64	29.50
7.605	7.605 (1.142)	144	89030			0.00- 39.63	9.67
154 Chlorobenzene					CAS #: 108-90-7		
9.496	9.496 (1.004)	112	1170183	50.5473	50.547	80.00- 120.00	100.00
9.496	9.496 (1.004)	114	376526			1.74- 61.74	32.18
9.496	9.496 (1.004)	77	640652			25.04- 85.04	54.75
155 Ethyl Benzene					CAS #: 100-41-4		
9.567	9.567 (1.011)	106	610182	50.4060	50.406	80.00- 120.00	100.00
9.567	9.567 (1.011)	91	1864363			273.74- 333.74	305.54
156 Nonane					CAS #: 111-84-2		
9.603	9.596 (1.015)	43	1509244	48.4576	48.458	80.00- 120.00	100.00
9.603	9.603 (1.015)	57	1271714			54.16- 114.16	84.26
9.603	9.603 (1.015)	85	358055			0.00- 53.90	23.72
157 1,1,1,2-Tetrachloroethane					CAS #: 630-20-6		
9.596	9.596 (1.014)	131	532758	41.1032	41.103	80.00- 120.00	100.00
9.460	9.460 (1.000)	117	583008			57.42- 117.42	109.43
9.596	9.596 (1.014)	95	192120			5.70- 65.70	36.06
158 m,p-Xylene					CAS #: 108-38-3		
9.718	9.718 (1.027)	106	760695	50.1737	50.174	80.00- 120.00	100.00
9.718	9.718 (1.027)	91	1493758			163.73- 223.73	196.37

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
164 o-Xylene					CAS #: 95-47-6		
10.226	10.226 (1.081)	106	723870	49.8321	49.832	80.00- 120.00	100.00
10.226	10.226 (1.081)	91	1494892			177.45- 237.45	206.51
165 Styrene					CAS #: 100-42-5		
10.255	10.255 (1.084)	104	1208123	48.6312	48.631	80.00- 120.00	100.00
10.255	10.255 (1.084)	78	579213			17.88- 77.88	47.94
167 Bromoform					CAS #: 75-25-2		
10.542	10.542 (1.114)	173	906568	51.9083	51.908	80.00- 120.00	100.00
10.542	10.542 (1.114)	171	460931			21.25- 81.25	50.84
168 Cumene					CAS #: 98-82-8		
10.649	10.649 (1.126)	105	2265548	49.6487	49.649	80.00- 120.00	100.00
10.649	10.649 (1.126)	120	647806			0.00- 58.52	28.59
10.649	10.649 (1.126)	51	293698			0.00- 43.00	12.96
169 Cyclohexanone					CAS #: 108-94-1		
10.871	10.871 (1.149)	55	751578	46.0550	46.055	80.00- 120.00	100.00
10.871	10.871 (1.149)	98	241627			1.94- 61.94	32.15
10.871	10.871 (1.149)	42	519433			37.89- 97.89	69.11
175 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
11.107	11.100 (1.174)	83	1111439	49.9028	49.903	80.00- 120.00	100.00
11.107	11.100 (1.174)	85	714222			35.20- 95.20	64.26
177 Bromobenzene					CAS #: 108-86-1		
11.107	11.107 (1.174)	156	712211	51.3180	51.318	80.00- 120.00	100.00
11.107	11.107 (1.174)	158	694838			67.21- 127.21	97.56
11.179	11.179 (1.182)	77	448248			29.02- 89.02	62.94
178 Propylbenzene					CAS #: 103-65-1		
11.150	11.150 (1.179)	120	673698	49.7919	49.792	80.00- 120.00	100.00
11.150	11.150 (1.179)	91	2670473			366.49- 426.49	396.39
11.150	11.150 (1.179)	105	100975			0.00- 44.85	14.99
179 1,2,3-Trichloropropane					CAS #: 96-18-4		
11.179	11.179 (1.182)	110	347282	48.9223	48.922	80.00- 120.00	100.00
11.179	11.179 (1.182)	75	1167359			280.55- 340.55	336.14
11.100	11.100 (1.173)	61	156927			15.49- 75.49	45.19
181 trans-1,4-Dichloro-2-butene					CAS #: 110-57-6		
11.179	11.179 (1.182)	53	340414	73.1510	73.151	80.00- 120.00	100.00(R)
11.179	11.179 (1.182)	89	238240			49.11- 109.11	69.99
11.179	11.179 (1.182)	75	1167359			426.44- 486.44	342.92

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
182 Decane					CAS #: 124-18-5		
11.251	11.251 (1.189)	57	1694913	47.7517	47.752	80.00- 120.00	100.00
11.251	11.251 (1.189)	71	465002			0.00- 57.66	27.44
11.258	11.258 (1.190)	142	69403			0.00- 34.09	4.09
183 4-Ethyltoluene					CAS #: 622-96-8		
11.287	11.287 (1.193)	120	721474	49.0325	49.032	80.00- 120.00	100.00
11.287	11.287 (1.193)	105	2282704			284.55- 344.55	316.39
184 2-Chlorotoluene					CAS #: 95-49-8		
11.308	11.308 (1.195)	126	570341	49.5063	49.506	80.00- 120.00	100.00
11.308	11.308 (1.195)	91	1973274			315.17- 375.17	345.98
11.301	11.301 (1.195)	65	288198			21.55- 81.55	50.53
185 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
11.365	11.365 (1.201)	120	1019008	50.3002	50.300	80.00- 120.00	100.00
11.365	11.365 (1.201)	105	1992138			164.93- 224.93	195.50
188 alpha Methyl Styrene					CAS #: 98-83-9		
11.645	11.645 (1.231)	118	1011075	50.2389	50.239	80.00- 120.00	100.00
11.645	11.645 (1.231)	103	559661			25.30- 85.30	55.35
189 tert-Butylbenzene					CAS #: 98-06-6		
11.738	11.738 (1.241)	119	1828423	48.2549	48.255	80.00- 120.00	100.00
11.738	11.738 (1.241)	134	453008			0.00- 54.25	24.78
11.738	11.738 (1.241)	91	1113434			31.27- 91.27	60.90
190 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
11.817	11.817 (1.249)	105	1940625	50.7513	50.751	80.00- 120.00	100.00
11.817	11.817 (1.249)	120	961894			19.05- 79.05	49.57
192 sec-Butylbenzene					CAS #: 135-98-8		
11.996	11.996 (1.268)	134	587147	49.8567	49.857	80.00- 120.00	100.00
11.996	11.996 (1.268)	105	2755895			437.55- 497.55	469.37
11.996	11.996 (1.268)	91	411332			40.76- 100.76	70.06
194 p-Cymene					CAS #: 99-87-6		
12.160	12.160 (1.285)	119	2592253	49.8015	49.802	80.00- 120.00	100.00
12.160	12.160 (1.285)	134	667083			0.00- 55.54	25.73
12.160	12.153 (1.285)	91	550118			0.00- 51.48	21.22
195 1,3-Dichlorobenzene					CAS #: 541-73-1		
12.203	12.196 (1.290)	146	1321489	50.4912	50.491	80.00- 120.00	100.00
12.203	12.196 (1.290)	148	844750			33.21- 93.21	63.92
12.196	12.196 (1.289)	111	544933			11.31- 71.31	41.24

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
196 1,4-Dichlorobenzene					CAS #: 106-46-7		
12.311	12.311 (1.301)	146	1351414	51.0959	51.096	80.00- 120.00	100.00
12.311	12.311 (1.301)	148	860632			33.90- 93.90	63.68
12.311	12.311 (1.301)	111	545078			9.45- 69.45	40.33
199 alpha-Chlorotoluene					CAS #: 100-44-7		
12.461	12.461 (1.317)	91	1867138	51.4087	51.409	80.00- 120.00	100.00
12.468	12.461 (1.318)	126	432223			0.00- 53.26	23.15
201 Undecane					CAS #: 1120-21-4		
12.640	12.640 (1.336)	57	2141161	52.2242	52.224	80.00- 120.00	100.00
12.640	12.640 (1.336)	43	1903384			58.12- 118.12	88.89
202 Butylbenzene					CAS #: 104-51-8		
12.626	12.626 (1.335)	134	659133	49.8581	49.858	80.00- 120.00	100.00
12.626	12.626 (1.335)	91	2279398			314.79- 374.79	345.82
12.626	12.626 (1.335)	92	1217501			154.29- 214.29	184.71
204 1,2-Dichlorobenzene					CAS #: 95-50-1		
12.741	12.741 (1.347)	146	1280596	49.8997	49.900	80.00- 120.00	100.00
12.741	12.741 (1.347)	148	810645			33.84- 93.84	63.30
12.741	12.741 (1.347)	111	542670			12.73- 72.73	42.38
206 1,2-Dibromo-3-chloropropane					CAS #: 96-12-8		
13.614	13.600 (1.439)	157	808811	52.0350	52.035	80.00- 120.00	100.00
13.614	13.600 (1.439)	75	667140			52.48- 112.48	82.48
13.614	13.600 (1.439)	155	627024			47.41- 107.41	77.52
207 Dodecane					CAS #: 112-40-3		
13.822	13.801 (1.461)	57	2491393	76.6649	76.665	80.00- 120.00	100.00(R)
13.822	13.801 (1.461)	43	2053107			52.87- 112.87	82.41
213 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
14.496	14.467 (1.532)	180	1351062	71.2544	71.254	80.00- 120.00	100.00
14.496	14.467 (1.532)	182	1288755			65.33- 125.33	95.39
215 Hexachlorobutadiene					CAS #: 87-68-3		
14.617	14.582 (1.545)	225	961978	72.0891	72.089	80.00- 120.00	100.00
14.617	14.582 (1.545)	223	615317			33.17- 93.17	63.96
216 Naphthalene					CAS #: 91-20-3		
14.796	14.768 (1.564)	128	329062	6.79056	6.790	80.00- 120.00	100.00
14.804	14.768 (1.565)	127	41782			0.00- 42.88	12.70
222 1,2,3-Trichlorobenzene					CAS #: 87-61-6		
15.104	15.069 (1.597)	180	1290198	76.9717	76.972	80.00- 120.00	100.00(R)

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
222 1,2,3-Trichlorobenzene (continued)							
15.104	15.069 (1.597)	182	1235122			65.75- 125.75	95.73
15.104	15.069 (1.597)	145	454864			5.23- 65.23	35.26

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p051925.d
Lab Smp Id: ICV
Analysis Type: VOA
Quant Type: ISTD
Operator: gh
Method File: /chem/msdp.i/19MAY21.b/p21q0519a.m
Misc Info: 50ppbv (200ppbv)

Calibration Date: 19-MAY-2021
Calibration Time: 15:55
Client Smp ID: ICV
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	158810	95286	222334	159261	0.28
108 1,4-Difluorobenze	597103	358262	835944	599327	0.37
153 Chlorobenzene-d5	587747	352648	822846	583008	-0.81

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.78	5.45	6.11	5.78	-0.00
108 1,4-Difluorobenze	6.66	6.33	6.99	6.66	-0.00
153 Chlorobenzene-d5	9.46	9.13	9.79	9.46	-0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

US32TAR1

RECOVERY REPORT

Client Name: Client SDG: 19MAY21
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: ICV Client Smp ID: ICV
Level: LOW Operator: gh
Data Type: MS DATA SampleType: ICV
SpikeList File: AT20_new.spk Quant Type: ISTD
Sublist File: AT20LCS_new.sub
Method File: /chem/msdp.i/19MAY21.b/p21q0519a.m
Misc Info: 50ppbv (200ppbv)

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
4 Freon 134a	50.000	53.442	106.88	70-130
5 Propylene	50.000	48.182	96.37	70-130
7 1,1-Difluoroethan	50.000	51.232	102.46	70-130
8 Freon 12	50.000	51.038	102.08	70-130
9 Chlorodifluoromet	50.000	51.166	102.33	70-130
10 Freon 114	50.000	49.998	100.00	70-130
12 Isobutane	50.000	47.421	94.84	70-130
15 Chloromethane	50.000	52.854	105.71	70-130
18 Butane	50.000	41.751	83.50	70-130
19 Vinyl Chloride	50.000	46.544	93.09	70-130
20 1,3-Butadiene	50.000	55.705	111.41	70-130
24 Bromomethane	50.000	46.423	92.85	70-130
30 Chloroethane	50.000	47.851	95.70	70-130
31 Isopentane	50.000	48.504	97.01	70-130
32 Vinyl Bromide	50.000	47.162	94.32	70-130
33 Freon 11	50.000	48.908	97.82	70-130
34 Dichlorofluoromet	50.000	49.404	98.81	70-130
35 Pentane	50.000	46.938	93.88	70-130
38 Ethyl Ether	50.000	50.843	101.69	70-130
39 Ethanol	58.000	46.262	79.76	70-130
42 Acrolein	58.000	50.459	87.00	70-130
43 Freon 113	50.000	48.827	97.65	70-130
44 1,1-Dichloroethen	50.000	50.146	100.29	70-130
47 Acetone	50.000	47.785	95.57	70-130
48 Carbon Disulfide	50.000	48.582	97.16	70-130
49 Iodomethane	50.000	59.395	118.79	70-130
52 2-Propanol	50.000	50.469	100.94	70-130
54 3-Chloropropene	50.000	49.004	98.01	70-130
57 Acetonitrile	50.000	48.637	97.27	70-130
59 Methylene Chlorid	50.000	49.022	98.04	70-130
62 tert-Butyl alcoho	50.000	46.356	92.71	70-130
63 Methyl tert-butyl	50.000	48.196	96.39	70-130
64 trans-1,2-Dichlor	50.000	48.605	97.21	70-130

	SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
66	Acrylonitrile	50.000	48.464	96.93	70-130
67	Hexane	50.000	49.483	98.97	70-130
71	1,1-Dichloroethan	50.000	50.618	101.24	70-130
72	Isopropyl ether	50.000	49.070	98.14	70-130
73	Vinyl Acetate	50.000	50.899	101.80	70-130
79	Ethyl-tert-butyl	50.000	48.821	97.64	70-130
84	2,2-Dichloropropa	50.000	49.293	98.59	70-130
85	cis-1,2-Dichloroe	50.000	49.927	99.85	70-130
86	2-Butanone	50.000	48.034	96.07	70-130
87	Ethyl Acetate	50.000	49.597	99.19	70-130
89	Tetrahydrofuran	50.000	49.825	99.65	70-130
92	Chloroform	50.000	50.443	100.89	70-130
94	Cyclohexane	50.000	48.380	96.76	70-130
96	1,1,1-Trichloroet	50.000	48.564	97.13	70-130
99	1,1-Dichloroprope	50.000	49.799	99.60	70-130
97	Carbon Tetrachlor	50.000	50.755	101.51	70-130
101	2,2,4-Trimethylpe	50.000	49.284	98.57	70-130
102	Benzene	50.000	50.970	101.94	70-130
105	tert-Amyl methyl	50.000	49.694	99.39	70-130
106	1,2-Dichloroethan	50.000	52.448	104.90	70-130
107	Heptane	50.000	51.580	103.16	70-130
110	n-Butanol	50.000	48.581	97.16	70-130
111	Trichloroethene	50.000	50.774	101.55	70-130
118	Dibromomethane	50.000	52.944	105.89	70-130
127	Methylcyclohexane	50.000	49.828	99.66	70-130
114	1,2-Dichloropropa	50.000	49.488	98.98	70-130
116	Methyl Methacryla	50.000	49.523	99.05	70-130
117	1,4-Dioxane	50.000	48.242	96.48	70-130
122	Bromodichlorometh	50.000	51.751	103.50	70-130
126	cis-1,3-Dichlorop	50.000	50.602	101.20	70-130
131	4-Methyl-2-pentan	50.000	46.708	93.42	70-130
136	Octane	50.000	48.682	97.36	70-130
137	Toluene	50.000	49.242	98.48	70-130
139	trans-1,3-Dichlor	50.000	52.312	104.62	70-130
141	1,1,2-Trichloroet	50.000	50.232	100.47	70-130
142	Tetrachloroethene	50.000	51.400	102.80	70-130
143	2-Hexanone	50.000	48.564	97.13	70-130
144	1,3-Dichloropropa	50.000	50.154	100.31	70-130
146	Dibromochlorometh	50.000	52.044	104.09	70-130
148	1,2-Dibromoethane	50.000	51.519	103.04	70-130
151	1-Bromo-2-Chloroe	50.000	49.482	98.97	70-130
154	Chlorobenzene	50.000	50.547	101.09	70-130
155	Ethyl Benzene	50.000	50.406	100.81	70-130
156	Nonane	50.000	48.458	96.92	70-130
157	1,1,1,2-Tetrachlo	50.000	41.103	82.21	70-130
158	m,p-Xylene	50.000	50.174	100.35	70-130
164	o-Xylene	50.000	49.832	99.66	70-130

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
165 Styrene	50.000	48.631	97.26	70-130
167 Bromoform	50.000	51.908	103.82	70-130
168 Cumene	50.000	49.649	99.30	70-130
169 Cyclohexanone	50.000	46.055	92.11	70-130
175 1,1,2,2-Tetrachlo	50.000	49.903	99.81	70-130
177 Bromobenzene	50.000	51.318	102.64	70-130
178 Propylbenzene	50.000	49.792	99.58	70-130
179 1,2,3-Trichloropr	50.000	48.922	97.84	70-130
181 trans-1,4-Dichlor	50.000	73.151	146.30*	70-130
182 Decane	50.000	47.752	95.50	70-130
183 4-Ethyltoluene	50.000	49.032	98.07	70-130
184 2-Chlorotoluene	50.000	49.506	99.01	70-130
185 1,3,5-Trimethylbe	50.000	50.300	100.60	70-130
188 alpha Methyl Styr	50.000	50.239	100.48	70-130
189 tert-Butylbenzene	50.000	48.255	96.51	70-130
190 1,2,4-Trimethylbe	50.000	50.751	101.50	70-130
192 sec-Butylbenzene	50.000	49.857	99.71	70-130
194 p-Cymene	50.000	49.802	99.60	70-130
195 1,3-Dichlorobenze	50.000	50.491	100.98	70-130
196 1,4-Dichlorobenze	50.000	51.096	102.19	70-130
199 alpha-Chlorotolue	50.000	51.409	102.82	70-130
201 Undecane	50.000	52.224	104.45	70-130
202 Butylbenzene	50.000	49.858	99.72	70-130
204 1,2-Dichlorobenze	50.000	49.900	99.80	70-130
206 1,2-Dibromo-3-chl	50.000	52.035	104.07	70-130
207 Dodecane	50.000	76.665	153.33*	70-130
213 1,2,4-Trichlorobe	58.000	71.254	122.85	70-130
215 Hexachlorobutadie	58.000	72.089	124.29	70-130
216 Naphthalene	5.800	6.790	117.08	60-140
222 1,2,3-Trichlorobe	58.000	76.972	132.71*	70-130

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 104 1,2-Dichloroethan	25.000	24.723	98.89	70-130
$ 134 Toluene-d8	25.000	24.912	99.65	70-130
$ 170 4-Bromofluorobenz	25.000	25.126	100.50	70-130

Data File: /chem/msdp.i/19MAY21.b/p051925.d

Page 1

Date : 20-MAY-2021 00:33

Client ID: ICV

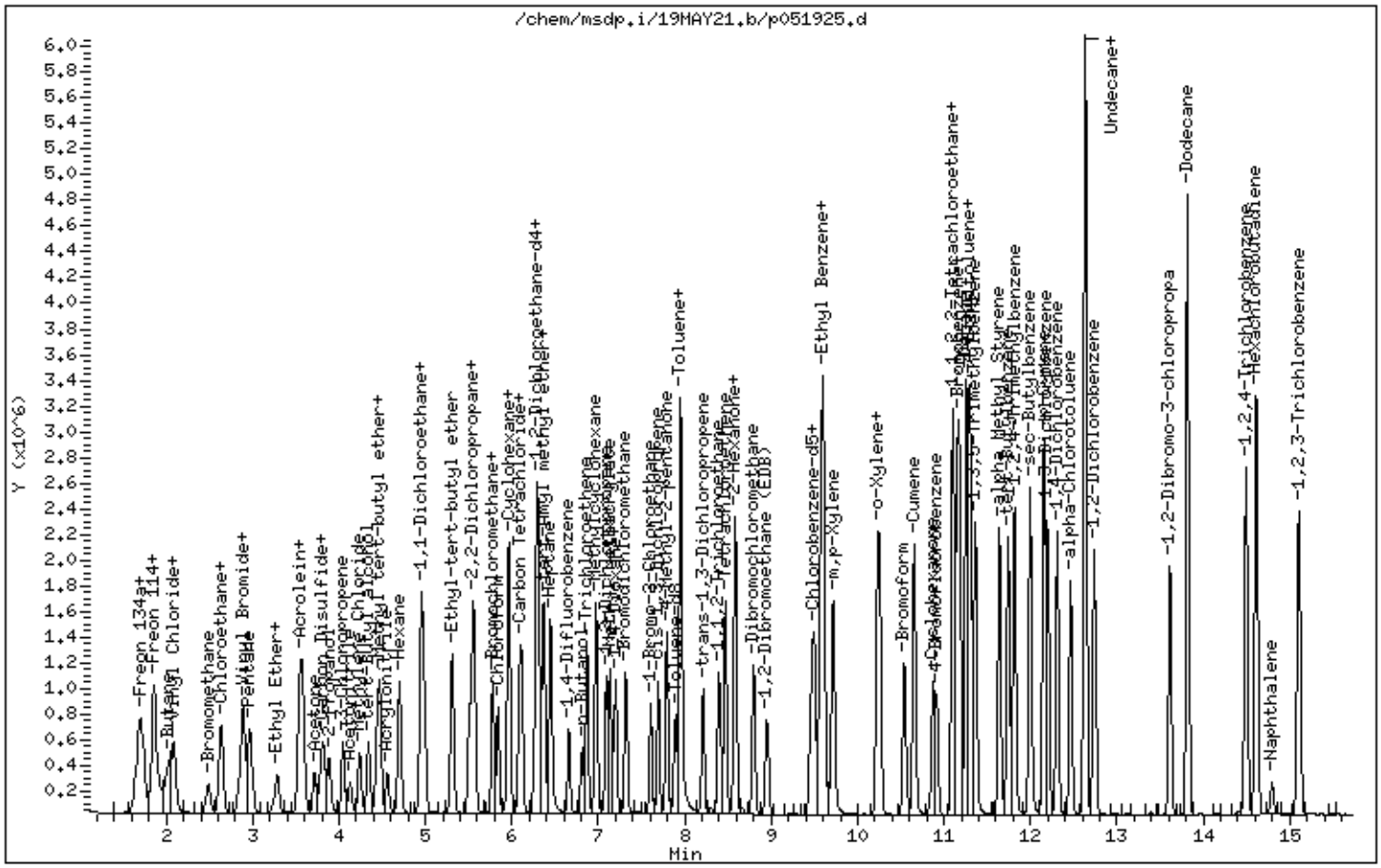
Instrument: msdp.i

Sample Info: 50mL 3018-2016

Operator: gh

Column phase: RTX-624

Column diameter: 0.25



MSD-P MDL Case Narrative

A Method Detection Limit study for TO-15 method was performed on 10/19/20-10/23/20,10/26/20-10/29/20 & 11/02/20,11/05/20,11/06/20.

The MDL was performed at:

- 0.3 ppbv (5.0ppbv->0.3ppbv) for the 0.3ppbv RL compounds; 12mL of #3018-1674
- 0.4 ppbv (5.0ppbv->0.4ppbv) for the 0.4ppbv RL compounds; 16mL of #3018-1674
- 0.8 ppbv (5.0ppbv->0.8ppbv) for 0.8ppbv RL compounds; 32ml of #3018-1674
- 1.0ppbv (5.0ppbv->1.0ppbv) for chloroethane & ethanol;40ml of 3018-1674 & 40ml of 3018-1682

A Method Detection Limit study for select TA TO-15 specials was performed on 11/27/20-11/29/20.

The MDL was performed at:

- 0.4ppbv(5.0ppbv->0.4ppbv) for 1,1,1,2-tetrachloroethane;16ml of #3018-1644

MDL verifications were analyzed on 11/03/20 & 11/10/20:

- P110313: (0.3ppbv & 0.4ppbv RL compounds). 5.0ppbv->0.25ppv; 10ml of #3018-1682.
- P110314: (0.8ppbv RL compounds). 5.0ppbv->0.6ppbv. 24ml of #3018-1682.
- P110315: (0.5 for naph only). 5.0->5.0ppbv; 200ml of #3018-1682.
- P110312: (for 1,1,1,2-PCA only). 5.0ppbv->0.25ppbv. 10ml of #3018-1644
- P111017: (for chloroethane, ethanol & vinyl acetate). 5.0ppbv->0.75ppbv. 30ml of 3018-1682.

Notes:

1. **The MDL values for the following compounds were taken from the MDL blank:**
    a. Dibromomethane (0.07607ppbv)
    b. Acetone (0.48647ppbv)
    c. Iodomethane (0.06508ppbv)
    d. Carbon disulfide (0.1958ppbv)
    e. Decane (0.57314ppbv)
    f. Undecane(0.1836ppbv)
    g. Dodecane (0.71923ppbv)
    h. Naphthalene (0.38524ppbv)

2. The ratio of the mean recovered concentration and the MDL value for naphthalene and dodecane recovered outside of 1-20.
3. The MDL verification for chloroethane and ethanol is less than 2X the mean MDL.

MDL Expires 10/29/21

0.3 mdl.rp

TO15 Quad MDL MSD-P
Standard 3018-1674 (5.0ppbv)
12mL load volume
Spike concentration: 0.3ppbv

Report Date : 28-Oct-2020 16:45

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msdp.i/19OCT20.b/p20q1012a.m
Batch File: /chem/msdp.i/19OCT20.b
Inst ID: msdp.i

ID:	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09
FILENAME:	p101908	p101909	p101910	p102008	p102009	p102010	p102107	p102108	p102109
INJ.DATE:	19-OCT-2020	19-OCT-2020	19-OCT-2020	20-OCT-2020	20-OCT-2020	20-OCT-2020	21-OCT-2020	21-OCT-2020	21-OCT-2020
INJ.TIME:	14:06	14:34	15:01	16:26	16:54	17:21	15:23	15:51	16:19

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
1 Dimethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
2 1,1-Dichloro-1-Fluoroe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
3 Freon 143a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
4 Freon 134a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
5 Propylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
6 Propane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
7 1,1-Difluoroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
8 Freon 12	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
9 Chlorodifluoromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
10 Freon 114	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
11 Freon 14	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
12 Isobutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
13 Freon 142b	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
14 Acetaldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
15 Chloromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
16 Hexafluoropropene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
17 Freon 13	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Reviewer 1 _____ Date: 10/30/20
Reviewer 2 _____ Date: 11/11/20

$\bar{x} = 70.54$
$2\bar{x} = 141.07$
$3\bar{x} = 211.62$
$4\bar{x} = 282.16$

Ratio of the mean recovered concentration and the MDL value is between 1 & 20.

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msdp.i/19OCT20.b/p20q1012a.m
Batch File: /chem/msdp.i/19OCT20.b
Inst ID: msdp.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
18 Butane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
19 Vinyl Chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
20 1,3-Butadiene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
21 Vinyl Fluoride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
22 Ethylene Oxide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
23 Methanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
24 Bromomethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
25 Isobutylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
26 2-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
27 trans-2-butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
28 1-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
29 cis-2-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
30 Chloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
31 Isopentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
32 Vinyl Bromide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
33 Freon 11	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
34 Dichlorofluoromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
35 Pentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
36 1-Pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
37 3-Methyl-1-butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
38 Ethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
39 Ethanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msdp.i/19OCT20.b/p20q1012a.m
Batch File: /chem/msdp.i/19OCT20.b
Inst ID: msdp.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
40 Freon 123a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
41 Freon 123	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
42 Acrolein	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
43 Freon 113	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
44 1,1-Dichloroethene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
45 2-Chloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
46 2,3-Dimethylbutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
47 Acetone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
48 Carbon Disulfide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
49 Iodomethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
50 Isoprene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
51 2-Methyl-2-butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
52 2-Propanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
53 trans-2-Pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
54 3-Chloropropene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
55 Cyclopentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
56 Methyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
57 Acetonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
58 cis-2-Pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
59 Methylene Chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
60 Cyclopentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
61 1,2-Dichloro-1-fluoroe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
62 tert-Butyl alcohol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
63 Methyl tert-butyl ethe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msdp.i/19OCT20.b/p20q1012a.m
Batch File: /chem/msdp.i/19OCT20.b
Inst ID: msdp.i

PPTV RL(PPTV) Sp RL(PPTV) Blank

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
64 trans-1,2-Dichloroethe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
65 2,2-Dimethylbutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
66 Acrylonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
67 Hexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
68 1-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
69 Bromoethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
70 4-Methyl-1-pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
71 1,1-Dichloroethane	217.02	219.07	292.15	253.35	258.29	195.74	292.58	280.15	220.83	247.69	36.00	104.26
72 Isopropyl ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
73 Vinyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
74 Chloroprene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
75 1-Propanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
76 2-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
77 3-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
78 1-Chloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
79 Ethyl-tert-butyl ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
80 2-Methyl-1-pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
81 2,4-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
82 2,3-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
83 tert-Butyl chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
84 2,2-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
85 cis-1,2-Dichloroethene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
86 2-Butanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

no spike in 0.5 500 300 —

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msdp.i/19OCT20.b/p20q1012a.m
Batch File: /chem/msdp.i/19OCT20.b
Inst ID: msdp.i

	Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL	ppbv	RL (ppbv)	SP RL (ppbv)	Blank
87	Ethyl Acetate	201.00	285.05	246.94	220.66	323.49	229.31	299.26	256.43	286.92	261.01	40.42	117.05		2000	300	—
88	Methyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++				
89	Tetrahydrofuran	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++				
* 90	Bromochloromethane	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	0.00	0.00				
91	trans-2-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++				—
92	Chloroform	242.52	244.52	264.08	247.68	239.93	283.26	261.71	270.85	264.59	257.68	14.79	42.84		500	300	
93	cis-2-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++				
94	Cyclohexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++				
95	Methylcyclopentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++				
96	1,1,1-Trichloroethane	292.64	289.12	314.87	273.07	292.46	311.97	284.37	293.95	306.68	295.46	13.50	39.11		500	300	—
97	Carbon Tetrachloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++				
98	sec-Butyl chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++				
99	1,1-Dichloropropene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++				
100	2,3,4-Trimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++				
101	2,2,4-Trimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++				
102	Benzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++				
103	Isobutanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++				
$ 104	1,2-Dichloroethane-d4	23662.67	23877.71	24079.59	23563.77	24206.96	24182.62	23963.20	24552.71	24218.03	24034.14	305.26	884.02				
105	tert-Amyl methyl ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++				
106	1,2-Dichloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++				
107	Heptane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++				
* 108	1,4-Difluorobenzene	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	0.00	0.00				
109	Butanal	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++				
110	n-Butanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++				

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msdp.i/19OCT20.b/p20q1012a.m
Batch File: /chem/msdp.i/19OCT20.b
Inst ID: msdp.i

ppbv RL(ppbv) SPRL(ppbv) Blank

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL			
111 Trichloroethene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
112 Isobutyl chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
113 Ethyl acrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
114 1,2-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
115 2-Pentanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
116 Methyl Methacrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
117 1,4-Dioxane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
118 Dibromomethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
119 Methacrylonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
120 2-Chloropentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
121 2-Butanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
122 Bromodichloromethane	248.45	319.45	282.47	291.32	274.66	272.30	278.78	242.30	239.06	272.09	25.76	74.60	500	300	—
123 1-Bromopropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
124 Chloroacetonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
125 n-Butylchloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
126 cis-1,3-Dichloropropen	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
127 Methylcyclohexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
128 Thiophene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
129 2-Methylhexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
130 3-Methylhexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
131 4-Methyl-2-pentanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
132 Cyclohexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
$ 133 Benzene-d6	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
$ 134 Toluene-d8	24585.67	24787.41	24622.65	24917.45	24550.68	25002.95	24999.39	25581.69	24685.96	24859.31	321.49	931.02			

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msdp.i/19OCT20.b/p20q1012a.m
Batch File: /chem/msdp.i/19OCT20.b
Inst ID: msdp.i

ppbv RL(ppbv) Sp RL(ppbv) Blank

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
135 1-Methoxy-2-propanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
136 Octane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
137 Toluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
138 1-Heptene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
139 trans-1,3-Dichloroprop	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
140 2,3-Dichloro-1-propene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
141 1,1,2-Trichloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
142 Tetrachloroethene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
143 2-Hexanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
144 1,3-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
145 Butyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
146 Dibromochloromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
147 Bromodichloroethene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
148 1,2-Dibromoethane (EDB	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
149 2-Methylheptane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
150 3-Methylheptane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
151 1-Bromo-2-Chloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
152 Diethyl Ketone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
* 153 Chlorobenzene-d5	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	0.00	0.00
154 Chlorobenzene	274.66	274.06	286.73	307.61	281.73	317.24	284.89	304.85	280.24	290.22	15.66	45.36
155 Ethyl Benzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
156 Nonane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
157 1,1,1,2-Tetrachloroeth	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
158 m,p-Xylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

500 300 —

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msdp.i/19OCT20.b/p20q1012a.m
Batch File: /chem/msdp.i/19OCT20.b
Inst ID: msdp.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
159 2-Nitropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
160 bis(chloromethyl) Ethe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
161 1-Octene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
162 Epichlorohydrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
163 2-Chloroethyl Vinyl Et	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
164 o-Xylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
165 Styrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
166 2-Heptanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
167 Bromoform	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
168 Cumene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
169 Cyclohexanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
$ 170 4-Bromofluorobenzene	24680.65	24394.98	24458.85	24972.60	24217.99	24821.47	24904.35	25061.39	25327.68	24760.00	354.77	1027.42
171 Vinyl Cyclohexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
172 D-Limonene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
173 Ethyl Methacrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
174 1-Chloro-2-Bromopropan	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
175 1,1,2,2-Tetrachloroeth	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
176 1-Nitropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
177 Bromobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
178 Propylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
179 1,2,3-Trichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
180 Bromodichloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
181 trans-1,4-Dichloro-2-b	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
182 Decane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msdp.i/19OCT20.b/p20q1012a.m
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Inst ID: msdp.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
183 4-Ethyltoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
184 2-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
185 1,3,5-Trimethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
186 4-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
187 Diisobutyl Ketone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
188 alpha Methyl Styrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
189 tert-Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
190 1,2,4-Trimethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
191 Pentachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
192 sec-Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
193 bis(2-Chloroethyl) Eth	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
194 p-Cymene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
195 1,3-Dichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
196 1,4-Dichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
197 1,2,3-Trimethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
198 1-Nonene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
199 alpha-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
200 1-Chlorohexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
201 Undecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
202 Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
203 Butyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
204 1,2-Dichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
205 Hexachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msdp.i/19OCT20.b/p20q1012a.m
Batch File: /chem/msdp.i/19OCT20.b
Inst ID: msdp.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
206 1,2-Dibromo-3-chloropr	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
207 Dodecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
208 1,3,5-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
209 1-Decene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
210 alpha-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
211 1,4-Dichloro-2-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
212 3-Ethyltoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
213 1,2,4-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
214 beta-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
215 Hexachlorobutadiene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
216 Naphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
217 Limonene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
218 Benzaldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
219 Indan	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
220 Indene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
221 Isobutylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
222 1,2,3-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
223 2-Ethyltoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
224 1-Undecene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
225 4-Ethyl-1,2-dimethylbe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
226 1,3-Diethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
227 1,4-Diethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
228 1,2,4,5-tetramethylben	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
229 1-Dodecene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msdp.i/19OCT20.b/p20q1012a.m
Batch File: /chem/msdp.i/19OCT20.b
Inst ID: msdp.i

	Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
	230 Nitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	231 Tridecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	232 2-Methylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	233 1,3,5-Triethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M	234 1,2-Dichloroethene (To	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M	235 Chlorobutane (Total)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M	236 Total Xylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M	237 3 and 4-Ethyltoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	238 Total Volatile Hydroca	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	239 TPH reference to Hexan	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	240 TPH reference to Hepta	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	241 TPH reference to Gasol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	242 TPH reference MineralS	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	243 TPH reference to Stodd	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	244 TVOC reference to Hexa	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	245 TVOC reference to Hept	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	246 TVOC reference to Tolu	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	247 TVOC reference to Tolu	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	248 NMOC reference to Hexa	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	249 NMOC reference to Hept	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	250 NMOC reference to Tolu	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	251 C3 - C4 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	252 C4 - C5 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	253 C5 - C6 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msdp.i/19OCT20.b/p20q1012a.m
Batch File: /chem/msdp.i/19OCT20.b
Inst ID: msdp.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
254 C6 - C7 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
255 C7 - C8 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
256 C8 - C9 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
257 C9 - C10 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
258 C10+ Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
259 C5 - C6 Aliphatic ref	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
260 C6-C8 Aliphatic ref He	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
261 C8-C10 Aliphatic ref D	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
262 C10-C12 Aliphatic ref	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
263 C8-C10 Aromatic	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
264 C8-C10 Aromatic ref 1,	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
265 C10-C12 Aromatic	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
266 C10-C12 Aromatic 1,2,	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
267 C10-C12 Aromatic Naph	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

0.4mdl.rp

TO15 Quad MDL - MSD-P
Standard 3018-1674 (5.0ppbv)
16ml load volume
spike concentration: 0.4ppbv

Report Date : 28-Oct-2020 18:51

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msdp.i/22OCT20.b/p20q1012a.m
Batch File: /chem/msdp.i/22OCT20.b
Inst ID: msdp.i

ID:	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09
FILENAME:	p102207	p102208	p102209	p102307	p102308	p102309	p102606	p102607	p102608
INJ.DATE:	22-OCT-2020	22-OCT-2020	22-OCT-2020	23-OCT-2020	23-OCT-2020	23-OCT-2020	26-OCT-2020	26-OCT-2020	26-OCT-2020
INJ.TIME:	16:40	17:08	17:35	14:33	15:01	15:28	11:55	12:23	12:51

pptv

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL	RL(pptv)	SpRL(pptv)	Blank
1 Dimethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
2 1,1-Dichloro-1-Fluoroe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
3 Freon 143a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
4 Freon 134a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
5 Propylene	436.27	459.07	358.71	365.97	442.84	407.04	328.83	315.33	395.64	389.97	51.11	148.02	2,000	400	—
6 Propane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
7 1,1-Difluoroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
8 Freon 12	368.05	362.51	350.90	422.39	382.44	336.13	389.94	336.87	366.98	368.47	27.28	79.01	500	400	—
9 Chlorodifluoromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
10 Freon 114	402.19	319.34	374.64	343.74	334.54	363.82	297.84	361.33	350.45	349.77	30.80	89.20	500	400	—
11 Freon 14	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
12 Isobutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
13 Freon 142b	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
14 Acetaldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
15 Chloromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
16 Hexafluoropropene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
17 Freon 13	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			

Reviewer 1 _____ Date: 10/30/20
Reviewer 2 _____ Date: 11/11/20

$\bar{x} = 93.579$
$2\bar{x} = 187.16$
$3\bar{x} = 280.74$
$4\bar{x} = 374.32$

The ratio of the mean recovered concentration & the MDL value is b/w 1 & 20.

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msdp.i/22OCT20.b/p20q1012a.m
Batch File: /chem/msdp.i/22OCT20.b
Inst ID: msdp.i

ppbv RL(ppbv) SP RL(ppbv) Blank

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL			
18 Butane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
19 Vinyl Chloride	238.72	286.52	271.11	333.74	362.20	338.00	255.39	295.79	250.02	292.39	43.60	126.26	500	400	—
20 1,3-Butadiene	312.68	378.59	382.05	250.04	280.91	275.23	257.72	279.89	265.49	298.07	49.87	144.41	500	400	—
21 Vinyl Fluoride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
22 Ethylene Oxide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
23 Methanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
24 Bromomethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
25 Isobutylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
26 2-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
27 trans-2-butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
28 1-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
29 cis-2-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
30 Chloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
31 Isopentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
32 Vinyl Bromide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
33 Freon 11	457.24	407.10	435.95	369.75	393.31	349.16	378.67	348.37	383.63	391.46	36.91	106.88	500	400	—
34 Dichlorofluoromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
35 Pentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
36 1-Pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
37 3-Methyl-1-butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
38 Ethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
39 Ethanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msdp.i/22OCT20.b/p20q1012a.m
Batch File: /chem/msdp.i/22OCT20.b
Inst ID: msdp.i

ppbv RL(ppbv) SpRL(ppbv) Blank

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL			
40 Freon 123a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
41 Freon 123	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
42 Acrolein	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
43 Freon 113	426.15	433.79	441.55	364.87	456.53	443.18	409.02	415.07	401.94	421.35	27.52	79.69	500	400	—
44 1,1-Dichloroethene	411.86	277.89	289.34	245.03	323.41	408.62	342.89	361.09	322.12	331.36	56.67	164.11	500	800	—
45 2-Chloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
46 2,3-Dimethylbutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
47 Acetone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
48 Carbon Disulfide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
49 Iodomethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
50 Isoprene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
51 2-Methyl-2-butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
52 2-Propanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
53 trans-2-Pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
54 3-Chloropropene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
55 Cyclopentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
56 Methyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
57 Acetonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
58 cis-2-Pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
59 Methylene Chloride	372.76	312.97	335.71	286.43	401.04	334.94	335.25	305.15	310.05	332.70	35.53	102.89	5000	400	60.72
60 Cyclopentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
61 1,2-Dichloro-1-fluoroe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
62 tert-Butyl alcohol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
63 Methyl tert-butyl ethe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msdp.i/22OCT20.b/p20q1012a.m
Batch File: /chem/msdp.i/22OCT20.b
Inst ID: msdp.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL	pptv RL(pptv)	spRL(pptv)	Blank
64 trans-1,2-Dichloroethe	313.59	405.50	314.93	359.93	369.92	296.05	382.07	269.64	318.20	336.65	44.63	129.25	500	400	—
65 2,2-Dimethylbutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
66 Acrylonitrile	340.64	301.35	399.89	330.73	361.11	300.84	267.26	315.86	273.74	321.27	42.21	122.24	2000	800	—
67 Hexane	284.59	274.85	274.18	282.13	331.11	344.69	341.12	289.67	342.62	307.22	31.56	91.39	500	800	—
68 1-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
69 Bromoethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
70 4-Methyl-1-pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
71 1,1-Dichloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
72 Isopropyl ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
73 Vinyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
74 Chloroprene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
75 1-Propanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
76 2-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
77 3-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
78 1-Chloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
79 Ethyl-tert-butyl ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
80 2-Methyl-1-pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
81 2,4-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
82 2,3-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
83 tert-Butyl chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
84 2,2-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
85 cis-1,2-Dichloroethene	364.42	423.15	261.26	309.14	261.64	232.81	264.66	260.96	254.08	292.46	62.51	181.02	500	400	—
86 2-Butanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msdp.i/22OCT20.b/p20q1012a.m
Batch File: /chem/msdp.i/22OCT20.b
Inst ID: msdp.i

ppbv RL(ppbv) SPRL(ppbv) Blank

	Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL			
87	Ethyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
88	Methyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
89	Tetrahydrofuran	300.42	300.83	294.38	309.82	323.07	338.59	237.00	237.36	280.14	291.29	34.92	101.13	500	800	—
* 90	Bromochloromethane	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	0.00	0.00			
91	trans-2-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
92	Chloroform	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
93	cis-2-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			—
94	Cyclohexane	333.63	372.37	338.12	334.85	386.70	337.43	317.34	337.97	288.47	338.54	28.42	82.29	500	400	
95	Methylcyclopentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
96	1,1,1-Trichloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
97	Carbon Tetrachloride	351.08	365.90	423.66	373.13	342.96	305.44	373.84	266.92	317.12	346.67	45.69	132.32	500	800	—
98	sec-Butyl chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
99	1,1-Dichloropropene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
100	2,3,4-Trimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
101	2,2,4-Trimethylpentane	355.69	333.15	292.38	297.05	306.33	311.83	333.39	309.71	308.79	316.48	20.28	58.72	500	400	—
102	Benzene	398.55	338.76	371.15	328.61	335.51	376.93	394.84	330.43	306.37	353.46	32.62	94.47	500	400	—
103	Isobutanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
$ 104	1,2-Dichloroethane-d4	25538.41	25119.18	24972.96	25310.46	26037.22	25493.94	22898.21	23988.75	24315.92	24852.78	963.98	2791.69			
105	tert-Amyl methyl ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
106	1,2-Dichloroethane	368.16	305.97	383.28	351.01	378.61	339.20	327.18	311.28	361.64	347.37	28.30	81.94	500	800	10.4
107	Heptane	377.00	338.49	321.63	237.39	335.69	324.80	348.25	362.21	369.78	335.03	41.40	119.90	500	500	—
* 108	1,4-Difluorobenzene	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	0.00	0.00			
109	Butanal	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
110	n-Butanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msdp.i/22OCT20.b/p20q1012a.m
Batch File: /chem/msdp.i/22OCT20.b
Inst ID: msdp.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL	ppbv	RL(ppbv)	Sp RL(ppbv)	Blank
111 Trichloroethene	359.98	366.80	369.81	358.75	381.97	420.18	406.91	394.92	420.70	386.67	24.88	72.05		500	400	—
112 Isobutyl chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++				
113 Ethyl acrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++				
114 1,2-Dichloropropane	367.27	387.51	438.23	349.97	414.12	402.30	315.92	374.28	442.15	387.97	41.24	119.42		500	400	—
115 2-Pentanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++				
116 Methyl Methacrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++				
117 1,4-Dioxane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++				
118 Dibromomethane	363.07	396.21	400.70	375.65	381.51	404.00	384.97	366.62	423.18	388.43	19.37	56.11		2000	400	76.07
119 Methacrylonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++				
120 2-Chloropentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++				
121 2-Butanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++				
122 Bromodichloromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++				
123 1-Bromopropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++				
124 Chloroacetonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++				
125 n-Butylchloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++				
126 cis-1,3-Dichloropropen	280.09	346.41	399.61	350.41	326.89	332.36	325.16	374.56	344.71	342.24	33.38	96.67		500	400	—
127 Methylcyclohexane	421.60	402.15	396.00	283.94	356.13	415.49	365.32	368.56	344.41	372.62	42.80	123.96		~2000	400	—
128 Thiophene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++				
129 2-Methylhexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++				
130 3-Methylhexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++				
131 4-Methyl-2-pentanone	349.17	342.85	324.09	329.39	448.82	363.24	372.47	304.65	357.29	354.66	41.09	118.99		500	400	—
132 Cyclohexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++				
$ 133 Benzene-d6	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++				
$ 134 Toluene-d8	24608.41	24757.16	24060.47	24358.97	24799.49	24544.21	24420.57	24318.45	25304.67	24574.71	356.92	1033.64				

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msdp.i/22OCT20.b/p20q1012a.m
Batch File: /chem/msdp.i/22OCT20.b
Inst ID: msdp.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
135 1-Methoxy-2-propanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
136 Octane	391.51	314.58	349.24	392.86	398.27	317.52	435.75	346.46	343.20	365.49	41.01	118.76
137 Toluene	393.31	369.84	335.47	374.46	391.89	378.56	364.69	361.01	383.40	372.52	17.82	51.60
138 1-Heptene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
139 trans-1,3-Dichloroprop	332.51	308.98	399.68	312.19	350.76	343.89	326.55	353.48	301.43	336.61	30.06	87.07
140 2,3-Dichloro-1-propene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
141 1,1,2-Trichloroethane	359.42	310.37	399.03	326.09	345.12	374.12	325.48	333.64	335.86	345.46	27.67	80.13
142 Tetrachloroethene	368.16	376.49	362.62	383.34	406.92	446.83	425.80	406.87	406.85	398.21	27.87	80.71
143 2-Hexanone	337.34	364.76	359.28	356.16	308.83	350.55	345.40	353.88	353.41	347.73	16.58	48.02
144 1,3-Dichloropropane	379.58	319.29	400.88	326.89	349.89	313.18	370.24	372.04	373.71	356.19	30.43	88.14
145 Butyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
146 Dibromochloromethane	399.15	402.43	371.98	328.44	351.93	404.39	388.88	370.10	331.22	372.06	29.51	85.45
147 Bromodichloroethene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
148 1,2-Dibromoethane (EDB	337.27	380.78	399.90	344.59	425.77	356.23	338.97	345.95	323.51	361.44	33.67	97.51
149 2-Methylheptane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
150 3-Methylheptane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
151 1-Bromo-2-Chloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
152 Diethyl Ketone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
* 153 Chlorobenzene-d5	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	0.00	0.00
154 Chlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
155 Ethyl Benzene	350.04	307.75	414.55	382.37	341.21	376.01	421.98	290.14	387.24	363.48	45.10	130.60
156 Nonane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
157 1,1,1,2-Tetrachloroeth	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
158 m,p-Xylene	381.11	385.02	373.70	279.50	328.49	371.80	390.58	345.71	301.63	350.84	39.78	115.22

ppbv RL(ppbv) SpRL(ppbv) Blank

2000 400 —
500 400 —
500 400 —
500 400 —
500 400 7.09
2000 400 —
2000 400 —
500 400 —
500 800 —
500 400 —
500 800 19.29 ~~46.24~~ GH 11/11/20

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msdp.i/22OCT20.b/p20q1012a.m
Batch File: /chem/msdp.i/22OCT20.b
Inst ID: msdp.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL	PPtV	RL(pptv)	Sp RL(pptv)	Blank
159 2-Nitropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++				
160 bis(chloromethyl) Ethe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++				
161 1-Octene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++				
162 Epichlorohydrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++				
163 2-Chloroethyl Vinyl Et	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++				8.96
164 o-Xylene	360.35	388.65	360.30	402.22	263.00	381.05	393.85	328.05	343.58	357.89	43.09	124.79	500	400		
165 Styrene	363.22	358.96	355.97	332.09	332.19	352.82	322.68	355.25	294.72	340.88	22.41	64.90	500	400		—
166 2-Heptanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++				
167 Bromoform	384.81	405.27	406.78	365.38	370.81	375.07	374.03	369.63	351.46	378.14	18.12	52.48	500	400		—
168 Cumene	358.73	319.23	373.24	314.45	325.75	332.23	371.15	349.17	341.49	342.83	21.76	63.02	500	800		—
169 Cyclohexanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++				
$ 170 4-Bromofluorobenzene	25111.07	24795.31	25807.35	25214.38	25273.17	25304.26	25170.01	25431.80	25249.38	25261.86	269.17	779.51				
171 Vinyl Cyclohexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++				
172 D-Limonene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++				
173 Ethyl Methacrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++				
174 1-Chloro-2-Bromopropan	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++				
175 1,1,2,2-Tetrachloroeth	394.75	382.23	361.14	364.24	388.23	395.06	358.67	355.71	362.71	373.64	16.20	46.93	500	400		—
176 1-Nitropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++				
177 Bromobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++				
178 Propylbenzene	358.34	343.23	365.47	348.41	315.89	358.02	401.15	335.02	403.17	358.74	28.65	82.96	500	400		—
179 1,2,3-Trichloropropane	396.36	433.62	361.53	369.60	353.73	433.59	394.94	293.12	372.73	378.80	43.25	125.25	2000	400		—
180 Bromodichloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++				
181 trans-1,4-Dichloro-2-b	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++				
182 Decane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++				

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METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msdp.i/22OCT20.b/p20q1012a.m
Batch File: /chem/msdp.i/22OCT20.b
Inst ID: msdp.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL	ppbv	RL(ppbv)	SPRL(ppbv)	Blank
183 4-Ethyltoluene	328.35	323.51	409.88	350.59	394.94	309.53	348.09	311.33	343.67	346.65	35.09	101.62	500		400	—
184 2-Chlorotoluene	367.12	437.45	399.61	324.10	337.68	379.55	388.66	368.97	399.59	378.08	34.12	98.81	2000		400	—
185 1,3,5-Trimethylbenzene	361.70	382.59	305.37	322.46	290.91	333.22	399.63	316.81	339.41	339.12	35.94	104.09	500		400	11.91
186 4-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++				
187 Diisobutyl Ketone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++				
188 alpha Methyl Styrene	340.84	346.95	357.65	316.13	311.83	307.88	324.63	323.57	342.20	330.19	17.32	50.16	1000		400	—
189 tert-Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++				
190 1,2,4-Trimethylbenzene	351.77	366.19	384.29	326.05	339.25	336.74	376.07	351.72	372.74	356.09	19.91	57.67	500		800	40.41
191 Pentachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++				
192 sec-Butylbenzene	326.70	387.27	334.38	303.10	357.00	376.71	377.82	357.98	334.64	350.62	27.86	80.67	2000		400	—
193 bis(2-Chloroethyl) Eth	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++				
194 p-Cymene	329.01	291.99	322.26	303.61	342.86	308.30	363.77	346.10	361.19	329.90	25.52	73.91	2000		800	491
195 1,3-Dichlorobenzene	396.73	395.68	406.80	347.34	383.69	416.48	403.45	401.34	390.46	393.55	19.74	57.16	500		400	6.61
196 1,4-Dichlorobenzene	397.02	396.80	373.82	336.65	380.96	372.10	379.74	387.84	407.73	381.41	20.51	59.40	500		400	10.61
197 1,2,3-Trimethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++				
198 1-Nonene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++				
199 alpha-Chlorotoluene	355.07	348.38	383.67	358.47	379.84	352.56	372.19	361.56	392.68	367.16	15.53	44.97	500		800	—
200 1-Chlorohexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++				
201 Undecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++				
202 Butylbenzene	358.91	342.67	328.13	333.54	305.09	329.53	365.04	339.04	387.15	343.23	24.06	69.69	1000		400	45.09
203 Butyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++				
204 1,2-Dichlorobenzene	405.81	403.04	358.55	356.29	398.25	390.07	392.01	401.55	406.90	390.27	19.48	56.41	500		400	26.05
205 Hexachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++				

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METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msdp.i/22OCT20.b/p20q1012a.m
Batch File: /chem/msdp.i/22OCT20.b
Inst ID: msdp.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
206 1,2-Dibromo-3-chloropr	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
207 Dodecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
208 1,3,5-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
209 1-Decene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
210 alpha-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
211 1,4-Dichloro-2-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
212 3-Ethyltoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
213 1,2,4-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
214 beta-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
215 Hexachlorobutadiene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
216 Naphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
217 Limonene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
218 Benzaldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
219 Indan	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
220 Indene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
221 Isobutylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
222 1,2,3-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
223 2-Ethyltoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
224 1-Undecene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
225 4-Ethyl-1,2-dimethylbe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
226 1,3-Diethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
227 1,4-Diethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
228 1,2,4,5-tetramethylben	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
229 1-Dodecene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msdp.i/22OCT20.b/p20q1012a.m
Batch File: /chem/msdp.i/22OCT20.b
Inst ID: msdp.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
230 Nitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
231 Tridecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
232 2-Methylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
233 1,3,5-Triethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M 234 1,2-Dichloroethene (To	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M 235 Chlorobutane (Total)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M 236 Total Xylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M 237 3 and 4-Ethyltoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
238 Total Volatile Hydroca	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
239 TPH reference to Hexan	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
240 TPH reference to Hepta	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
241 TPH reference to Gasol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
242 TPH reference MineralS	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
243 TPH reference to Stodd	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
244 TVOC reference to Hexa	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
245 TVOC reference to Hept	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
246 TVOC reference to Tolu	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
247 TVOC reference to Tolu	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
248 NMOC reference to Hexa	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
249 NMOC reference to Hept	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
250 NMOC reference to Tolu	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
251 C3 - C4 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
252 C4 - C5 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
253 C5 - C6 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msdp.i/22OCT20.b/p20q1012a.m
Batch File: /chem/msdp.i/22OCT20.b
Inst ID: msdp.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
254 C6 - C7 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
255 C7 - C8 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
256 C8 - C9 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
257 C9 - C10 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
258 C10+ Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
259 C5 - C6 Aliphatic ref	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
260 C6-C8 Aliphatic ref He	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
261 C8-C10 Aliphatic ref D	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
262 C10-C12 Aliphatic ref	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
263 C8-C10 Aromatic	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
264 C8-C10 Aromatic ref 1,	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
265 C10-C12 Aromatic	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
266 C10-C12 Aromatic 1,2,	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
267 C10-C12 Aromatic Naph	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

0.8mdl.rp

TOIS Quad MDL MSD-P
standard 3018-16674 (5.0ppbv)
32mL load volume
Spike concentration: 0.8 ppbv
Naph @ 0.08ppbv

Report Date : 30-Oct-2020 15:35

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msdp.i/27OCT20.b/p20q1012a.m
Batch File: /chem/msdp.i/27OCT20.b
Inst ID: msdp.i

ID:	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09
FILENAME:	p102713	p102714	p102715	p102812	p102813	p102814	p102913	p102914	p102915
INJ.DATE:	27-OCT-2020	27-OCT-2020	27-OCT-2020	28-OCT-2020	28-OCT-2020	28-OCT-2020	29-OCT-2020	29-OCT-2020	29-OCT-2020
INJ.TIME:	16:13	16:41	17:09	16:20	16:48	17:16	16:09	16:37	17:05

ppbv

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL	RL(pptv)	SPRL(pptv)	Blank
1 Dimethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
2 1,1-Dichloro-1-Fluoroe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
3 Freon 143a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
4 Freon 134a	782.35	724.88	886.81	836.87	782.13	915.12	890.85	977.30	953.51	861.09	85.21	246.77	2000	800	-
5 Propylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
6 Propane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
7 1,1-Difluoroethane	828.20	1034.35	526.55	766.58	681.54	895.20	701.39	694.22	904.48	781.39	151.42	438.51	2000	800	-
8 Freon 12	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
9 Chlorodifluoromethane	854.60	805.17	642.55	827.65	687.63	812.52	1041.61	928.38	684.55	809.41	126.85	367.37	2000	800	-
10 Freon 114	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
11 Freon 14	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
12 Isobutane	719.04	711.25	707.49	729.52	689.89	671.33	801.41	778.78	804.87	734.84	48.61	140.77	2000	800	—
13 Freon 142b	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
14 Acetaldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
15 Chloromethane	882.85	931.18	918.86	751.25	728.44	745.41	1061.42	972.38	1001.77	888.17	121.18	350.93	5000	800	—
16 Hexafluoropropene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
17 Freon 13	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			

Reviewer 1 _____ Date: 10/30/20
Reviewer 2 _____ Date: 11/11/20

rm 11/03/20

$\bar{X}$ = ~~253.78~~ ~~254.04~~ 243.95
$2\bar{x}$ = 507.56 508.08 487.90
$3\bar{x}$ = 761.34 762.12 731.85
$4\bar{x}$ = ~~1,015.12~~ ~~1,016.16~~ 975.80

The ratio of the mean recovered concentration to the MDL value is b/w 1-20 for all compounds except dodecane and Naphthalene.

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msdp.i/27OCT20.b/p20q1012a.m
Batch File: /chem/msdp.i/27OCT20.b
Inst ID: msdp.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL	PPTV RL(PPTV)	SP RL(PPTV)	Blank
18 Butane	898.47	689.60	606.50	714.19	994.52	733.80	751.23	938.98	1233.61	840.10	194.99	564.68	2000	800	—
19 Vinyl Chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
20 1,3-Butadiene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
21 Vinyl Fluoride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
22 Ethylene Oxide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
23 Methanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
24 Bromomethane	834.50	796.28	852.48	898.11	761.37	815.39	846.32	919.26	1012.42	859.57	74.89	216.88	5000	800	—
25 Isobutylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
26 2-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
27 trans-2-butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
28 1-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
29 cis-2-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
30 Chloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
31 Isopentane	655.87	662.86	650.61	734.81	705.95	701.65	727.87	655.13	699.75	688.28	32.73	94.78	2000	2000	—
32 Vinyl Bromide	737.71	813.81	758.98	757.93	700.24	661.88	709.79	675.94	746.89	729.24	47.22	136.75	2000	800	—
33 Freon 11	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
34 Dichlorofluoromethane	778.66	732.59	744.21	814.55	761.68	702.11	748.89	790.16	735.31	756.46	33.93	98.25	2000	800	—
35 Pentane	639.53	701.46	729.10	649.67	678.40	698.89	670.06	598.35	821.94	687.49	63.44	183.72	2000	800	—
36 1-Pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
37 3-Methyl-1-butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
38 Ethyl Ether	564.60	615.24	558.00	800.06	654.88	660.41	744.34	741.00	309.41	627.55	145.03	420.00	2000	800	—
* ~~39 Ethanol~~	~~569.54~~	~~328.32~~	~~497.33~~	~~641.05~~	~~1160.40~~	~~721.07~~	~~599.91~~	~~403.71~~	~~443.84~~	~~596.13~~	~~244.55~~	~~708.23~~	~~2000~~	~~1000~~ 800	— MS 11/10/20

* Ethanol MDL included in 10ppbv spike

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msdp.i/27OCT20.b/p20q1012a.m
Batch File: /chem/msdp.i/27OCT20.b
Inst ID: msdp.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
40 Freon 123a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
41 Freon 123	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
42 Acrolein	699.46	712.62	502.97	856.57	794.32	807.25	756.02	655.40	696.07	720.08	103.32	299.22
43 Freon 113	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
44 1,1-Dichloroethene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
45 2-Chloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
46 2,3-Dimethylbutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
47 Acetone	848.22	800.39	727.29	836.77	676.13	837.53	907.31	713.75	735.23	786.96	76.92	222.76
48 Carbon Disulfide	808.80	840.34	749.99	777.80	747.78	684.04	761.31	799.80	776.40	771.81	44.40	128.59
49 Iodomethane	457.35	451.01	440.43	437.13	459.33	452.25	478.66	430.79	399.77	445.19	22.11	64.02
50 Isoprene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
51 2-Methyl-2-butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
52 2-Propanol	666.68	704.84	695.32	785.79	731.69	795.25	734.79	809.37	796.47	746.69	51.78	149.96
53 trans-2-Pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
54 3-Chloropropene	852.23	979.94	823.74	485.40	620.09	771.94	735.72	607.16	820.37	744.06	150.57	436.06
55 Cyclopentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
56 Methyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
57 Acetonitrile	731.86	716.27	660.84	656.65	700.17	610.38	801.87	579.31	812.61	696.66	79.25	229.52
58 cis-2-Pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
59 Methylene Chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
60 Cyclopentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
61 1,2-Dichloro-1-fluoroe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
62 tert-Butyl alcohol	740.42	784.24	698.11	749.56	863.98	769.73	738.29	787.50	724.28	761.79	47.82	138.48
63 Methyl tert-butyl ethe	732.79	675.63	767.02	757.40	730.51	793.25	764.89	693.44	732.19	738.57	37.05	107.30

ppbv RL(ppbv) SpRL(ppbv) Blank

42 2000 2000 —
47 5000 500 497.4
48 1000 800 195.8
49 2000 800 45 45 ms 11/03/20
52 2000 800 137.2
54 2000 800 —
57 2000 800 —
62 2000 800 —
63 2000 800 —

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msdp.i/27OCT20.b/p20q1012a.m
Batch File: /chem/msdp.i/27OCT20.b
Inst ID: msdp.i

ppbv RL(ppbv) SpRL(ppbv) Blank

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL			
64 trans-1,2-Dichloroethe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
65 2,2-Dimethylbutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
66 Acrylonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
67 Hexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
68 1-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
69 Bromoethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
70 4-Methyl-1-pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
71 1,1-Dichloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
72 Isopropyl ether	682.23	642.03	666.75	695.31	656.63	696.37	661.77	656.86	696.19	672.68	20.37	58.98	2000	800	—
73 Vinyl Acetate	379.16	510.38	679.89	456.28	594.69	817.23	865.96	319.67	628.92	583.57	186.68	540.62	2000	800	—
74 Chloroprene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
75 1-Propanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
76 2-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
77 3-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
78 1-Chloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
79 Ethyl-tert-butyl ether	732.15	735.05	698.72	703.42	678.14	735.97	721.12	633.77	751.04	709.93	36.40	105.41	2000	800	—
80 2-Methyl-1-pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
81 2,4-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
82 2,3-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
83 tert-Butyl chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
84 2,2-Dichloropropane	856.50	766.31	748.03	737.62	810.23	833.08	893.06	935.10	891.13	830.12	69.98	202.65	2000	800	—
85 cis-1,2-Dichloroethene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
86 2-Butanone	494.27	680.84	630.20	636.77	695.03	636.19	496.57	833.87	704.79	645.39	104.97	303.98	2000	800	—

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msdp.i/27OCT20.b/p20q1012a.m
Batch File: /chem/msdp.i/27OCT20.b
Inst ID: msdp.i

ppbv RL(ppbv) SpRL(ppbv) Blank

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL			
87 Ethyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
88 Methyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
89 Tetrahydrofuran	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
* 90 Bromochloromethane	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	0.00	0.00			
91 trans-2-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
92 Chloroform	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
93 cis-2-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
94 Cyclohexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
95 Methylcyclopentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
96 1,1,1-Trichloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
97 Carbon Tetrachloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
98 sec-Butyl chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
99 1,1-Dichloropropene	691.47	788.20	695.94	788.42	758.83	619.78	822.02	955.67	776.77	766.35	94.95	274.96	2000	800	—
100 2,3,4-Trimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
101 2,2,4-Trimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
102 Benzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
103 Isobutanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
$ 104 1,2-Dichloroethane-d4	26542.98	25336.38	25035.81	26773.65	27060.55	27089.31	28110.69	28004.75	27657.60	26845.75	1081.60	3132.31			
105 tert-Amyl methyl ether	672.84	754.03	800.25	749.08	911.69	801.21	750.86	870.59	838.98	794.39	72.44	209.80	2000	2000	—
106 1,2-Dichloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
107 Heptane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
* 108 1,4-Difluorobenzene	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	0.00	0.00			
109 Butanal	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
110 n-Butanol	818.67	808.84	787.27	836.16	856.92	901.90	852.85	807.79	844.38	834.98	34.16	98.92	2000	800	68.07

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msdp.i/27OCT20.b/p20q1012a.m
Batch File: /chem/msdp.i/27OCT20.b
Inst ID: msdp.i

ppbv RL(ppbv) SP RL(ppbv) Blank

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL			
111 Trichloroethene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
112 Isobutyl chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
113 Ethyl acrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
114 1,2-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
115 2-Pentanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
116 Methyl Methacrylate	757.87	628.93	710.27	777.16	558.68	667.00	648.50	874.39	750.66	708.16	93.91	271.96	2000	800	—
117 1,4-Dioxane	765.97	849.41	952.34	642.09	797.15	771.61	800.61	642.99	673.24	766.16	101.84	294.93	2000	800	—
118 Dibromomethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
119 Methacrylonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
120 2-Chloropentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
121 2-Butanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
122 Bromodichloromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
123 1-Bromopropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
124 Chloroacetonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
125 n-Butylchloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
126 cis-1,3-Dichloropropen	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
127 Methylcyclohexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
128 Thiophene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
129 2-Methylhexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
130 3-Methylhexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
131 4-Methyl-2-pentanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
132 Cyclohexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
$ 133 Benzene-d6	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
$ 134 Toluene-d8	24078.61	24335.63	24036.51	23516.55	23802.94	23773.37	23590.02	23613.19	24343.15	23898.89	313.75	908.62			

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METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msdp.i/27OCT20.b/p20q1012a.m
Batch File: /chem/msdp.i/27OCT20.b
Inst ID: msdp.i

ppbv RL(ppbv) SPRL(ppbv) Blank

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL			
135 1-Methoxy-2-propanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
136 Octane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
137 Toluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
138 1-Heptene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
139 trans-1,3-Dichloroprop	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
140 2,3-Dichloro-1-propene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
141 1,1,2-Trichloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
142 Tetrachloroethene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
143 2-Hexanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
144 1,3-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
145 Butyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
146 Dibromochloromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
147 Bromodichloroethene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
148 1,2-Dibromoethane (EDB	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
149 2-Methylheptane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
150 3-Methylheptane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
151 1-Bromo-2-Chloroethane	657.71	773.71	721.48	656.34	733.70	677.29	720.22	717.61	692.34	705.60	38.30	110.92	2000	800	—
152 Diethyl Ketone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
* 153 Chlorobenzene-d5	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	0.00	0.00			
154 Chlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
155 Ethyl Benzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
156 Nonane	649.99	615.89	662.19	649.94	671.72	581.89	713.24	665.35	674.53	653.86	37.29	108.00	2000	800	46.24
157 1,1,1,2-Tetrachloroeth	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
158 m,p-Xylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			

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METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msdp.i/27OCT20.b/p20q1012a.m
Batch File: /chem/msdp.i/27OCT20.b
Inst ID: msdp.i

ppbv

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL	RL(ppbv)	SPRL(ppbv)	Blank
159 2-Nitropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
160 bis(chloromethyl) Ethe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
161 1-Octene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
162 Epichlorohydrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
163 2-Chloroethyl Vinyl Et	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
164 o-Xylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
165 Styrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
166 2-Heptanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
167 Bromoform	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
168 Cumene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
169 Cyclohexanone	848.24	767.43	798.03	808.84	844.16	792.72	752.74	812.64	890.64	812.83	42.72	123.73	2000	800	—
$ 170 4-Bromofluorobenzene	26008.20	26019.99	26097.96	26091.99	26069.47	25566.33	25848.37	26700.26	25817.70	26024.47	306.72	888.26			
171 Vinyl Cyclohexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
172 D-Limonene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
173 Ethyl Methacrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
174 1-Chloro-2-Bromopropan	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
175 1,1,2,2-Tetrachloroeth	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
176 1-Nitropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
177 Bromobenzene	806.33	851.30	818.09	815.14	762.80	818.62	765.09	884.18	735.55	806.35	46.17	133.72	2000	800	—
178 Propylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
179 1,2,3-Trichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
180 Bromodichloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
181 trans-1,4-Dichloro-2-b	696.47	780.58	811.00	821.84	756.32	754.81	776.59	738.59	930.39	785.18	66.13	191.51	2000	800	
182 Decane	665.03	678.56	590.12	632.67	602.85	585.50	637.99	632.02	612.73	626.39	31.92	92.43	2000	800	573.14

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METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msdp.i/27OCT20.b/p20q1012a.m
Batch File: /chem/msdp.i/27OCT20.b
Inst ID: msdp.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL	RL(PPTV)	SPRL(PPTV)	Blank
183 4-Ethyltoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
184 2-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
185 1,3,5-Trimethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
186 4-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
187 Diisobutyl Ketone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
188 alpha Methyl Styrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
189 tert-Butylbenzene	777.35	746.78	784.01	732.15	775.27	697.75	724.53	721.59	728.65	743.12	29.77	86.20	2000	300	32.20
190 1,2,4-Trimethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
191 Pentachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
192 sec-Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
193 bis(2-Chloroethyl) Eth	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
194 p-Cymene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
195 1,3-Dichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
196 1,4-Dichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
197 1,2,3-Trimethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
198 1-Nonene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
199 alpha-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
200 1-Chlorohexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
201 Undecane	543.26	526.15	549.31	522.63	565.63	525.07	573.32	541.49	521.46	540.92	19.10	55.32	2000	800	183.60
202 Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
203 Butyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
204 1,2-Dichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
205 Hexachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			

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METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msdp.i/27OCT20.b/p20q1012a.m
Batch File: /chem/msdp.i/27OCT20.b
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Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL (ppbv)	RL(ppbv)	SpRL(ppbv)	Blank
206 1,2-Dibromo-3-chloropr	776.96	766.33	816.70	748.77	742.97	795.65	764.63	775.37	776.17	773.73	22.51	65.19	2000	800	—
207 Dodecane	669.70	747.33	708.32	688.30	749.03	735.59	633.57	674.71	655.94	695.83	41.64	120.59	2000	800	719.23
208 1,3,5-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
209 1-Decene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
210 alpha-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
211 1,4-Dichloro-2-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
212 3-Ethyltoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
213 1,2,4-Trichlorobenzene	1024.36	1024.97	1115.91	982.45	1070.32	954.95	934.25	1004.44	1088.59	1022.25	60.90	176.36	2000	2000	65.11
214 beta-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
215 Hexachlorobutadiene	1087.27	1049.68	989.99	1016.98	1194.77	1118.77	1104.49	1141.26	1112.79	1090.67	63.37	183.51	2000	2000	38.6
216 Naphthalene	96.82	117.03	115.70	96.98	95.10	96.49	94.23	93.62	93.19	99.91	9.44	27.33	1000	800	385.
217 Limonene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
218 Benzaldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
219 Indan	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
220 Indene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
221 Isobutylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
222 1,2,3-Trichlorobenzene	1001.11	1201.96	1141.79	1103.14	1149.53	1158.53	1177.05	1141.75	1245.42	1146.70	68.02	196.98	2000	800	129.49
223 2-Ethyltoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
224 1-Undecene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
225 4-Ethyl-1,2-dimethylbe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
226 1,3-Diethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
227 1,4-Diethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
228 1,2,4,5-tetramethylben	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
229 1-Dodecene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msdp.i/27OCT20.b/p20q1012a.m
Batch File: /chem/msdp.i/27OCT20.b
Inst ID: msdp.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
230 Nitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
231 Tridecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
232 2-Methylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
233 1,3,5-Triethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M 234 1,2-Dichloroethene (To	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M 235 Chlorobutane (Total)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M 236 Total Xylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M 237 3 and 4-Ethyltoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
238 Total Volatile Hydroca	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
239 TPH reference to Hexan	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
240 TPH reference to Hepta	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
241 TPH reference to Gasol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
242 TPH reference MineralS	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
243 TPH reference to Stodd	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
244 TVOC reference to Hexa	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
245 TVOC reference to Hept	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
246 TVOC reference to Tolu	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
247 TVOC reference to Tolu	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
248 NMOC reference to Hexa	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
249 NMOC reference to Hept	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
250 NMOC reference to Tolu	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
251 C3 - C4 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
252 C4 - C5 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
253 C5 - C6 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msdp.i/27OCT20.b/p20q1012a.m
Batch File: /chem/msdp.i/27OCT20.b
Inst ID: msdp.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
254 C6 - C7 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
255 C7 - C8 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
256 C8 - C9 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
257 C9 - C10 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
258 C10+ Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
259 C5 - C6 Aliphatic ref	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
260 C6-C8 Aliphatic ref He	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
261 C8-C10 Aliphatic ref D	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
262 C10-C12 Aliphatic ref	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
263 C8-C10 Aromatic	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
264 C8-C10 Aromatic ref 1,	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
265 C10-C12 Aromatic	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
266 C10-C12 Aromatic 1,2,	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
267 C10-C12 Aromatic Naph	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

1.0mdl.rp

Chloroethane & Ethanol only

TO15 Quad MDL MSD-P
Standards: 3018-1674 & 3018-1682
40mL load volume
Spike concentration: 1.0ppbv (5.0ppbv)

Report Date : 12-NOV-2020 16:23 Page 1

US32TAR1

SPIKED METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msdp.i/06NOV20.b/p20q1012a.m
Batch File: /chem/msdp.i/06NOV20.b
Instrument Names: msdp.i
Student T 2.896 for 9 Replicates with 99% Confidence

Spiked ID(s) Spiked Vol(s)

ID:	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09
FILENAME:	p110206	p110207	p110208	p110513	p110514	p110515	p110609	p110610	p110611
INJ.DATE:	02-NOV-2020	02-NOV-2020	02-NOV-2020	05-NOV-2020	05-NOV-2020	05-NOV-2020	06-NOV-2020	06-NOV-2020	06-NOV-2020
INJ.TIME:	14:13	14:41	15:09	20:32	21:00	21:28	14:11	14:39	15:06

ppbv PL Blar

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	SPK AMT	RL	RATIO	MDL
1 Chloroethane	949.12	1022.70	806.30	825.92	1224.10	964.54	1180.50	905.28	1303.10	1020.17	177.54	0.000000	2.00	1.98	514.16
2 Ethanol	794.28	1176.80	541.34	587.68	928.34	802.22	478.16	696.21	766.27	752.37	213.76	0.000000	2.00	1.22	619.05
* 3 Bromochloromethane	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	0.000000	0.000000	0.400	1.00	0.000000
$ 4 1,2-Dichloroethane-d4	27635.00	26462.00	27301.00	26650.00	26719.00	27118.00	27404.00	26779.00	27199.00	27029.67	394.08	0.000000	0.400	23.68	1141.26
* 5 1,4-Difluorobenzene	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	0.000000	0.000000	0.400	1.00	0.000000
$ 6 Toluene-d8	24478.00	23898.00	24046.00	24964.00	25032.00	24902.00	24547.00	25074.00	25358.00	24699.89	492.08	0.000000	0.400	17.33	1425.08
* 7 Chlorobenzene-d5	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	0.000000	0.000000	0.400	1.00	0.000000
$ 8 4-Bromofluorobenzene	26376.00	26376.00	25359.00	23859.00	24195.00	23898.00	24336.00	24526.00	24254.00	24797.67	995.84	0.000000	0.400	8.60	2883.95

Reviewer 1 _____ Date: 11/12/20
Reviewer 2 _____ Date: 11/12/20

The ratio of the mean recovered concentration & the MDL is b/w 1-20.

$\bar{x} = 566.60$

$2\bar{x} = 1133.21$

1112pca_mdl.rp

TO15 Quad MDL MSD-P
Standard 3018-1644 (5.0ppbv)

1,1,1,2-Tetrachloroethane only

16mL load volume
Spike Concentration 0.4ppbv

Report Date : 10-NOV-2020 15:36 Page 1

US32TAR1

SPIKED METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msdp.i/29OCT20.b/p20q1012a.m
Batch File: /chem/msdp.i/29OCT20.b
Instrument Names: msdp.i
Student T 2.896 for 9 Replicates with 99% Confidence

	Spiked ID(s)	Spiked Vol(s)

ID:	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09
FILENAME:	p102710	p102711	p102712	p102809	p102810	p102811	p102910	p102911	p102912
INJ.DATE:	27-OCT-2020	27-OCT-2020	27-OCT-2020	28-OCT-2020	28-OCT-2020	28-OCT-2020	29-OCT-2020	29-OCT-2020	29-OCT-2020
INJ.TIME:	14:49	15:17	15:45	14:57	15:25	15:53	14:46	15:14	15:42

PPbV RL Blank

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	SPK AMT	RL	RATIO	MDL
* 1 Bromochloromethane	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	0.000000	0.000000	2.00	1.00	0.000000
$ 2 1,2-Dichloroethane-d4	24573.00	24807.00	24616.00	25011.00	26208.00	26456.00	27161.00	26313.00	27385.00	25836.67	1102.74	0.000000	2.00	8.09	3193.55
* 3 1,4-Difluorobenzene	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	0.000000	0.000000	2.00	1.00	0.000000
$ 4 Toluene-d8	24075.00	24304.00	24661.00	24305.00	23479.00	23880.00	24032.00	24417.00	23597.00	24083.33	385.46	0.000000	2.00	21.57	1116.30
* 5 Chlorobenzene-d5	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	0.000000	0.000000	2.00	1.00	0.000000
6 1,1,1,2-Tetrachloroethane	379.06	447.57	427.78	423.52	384.11	446.89	435.94	349.79	387.48	409.13	34.82	0.000000	2.00	4.06	100.83
$ 7 4-Bromofluorobenzene	25482.00	25724.00	25783.00	26216.00	25959.00	25799.00	26068.00	25824.00	25833.00	25854.22	209.93	0.000000	2.00	42.53	607.95

80

Reviewer 1 _____ Date: 11/10/20
Reviewer 2 _____ Date: 11/12/20

The ratio of the mean recovered concentration & the MDL is b/w 1-20.

$\bar{x} = 100.83$

$2\bar{x} = 201.66$

$3\bar{x} = 302.49$

$4\bar{x} = 403.32$

blank_mdl.rp

MSD-P Blank MDL
can #s 33665 & 497

Report Date : 03-NOV-2020 17:44 Page 1

US32TAR1

SPIKED METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msdp.i/29OCT20.b/p20q1012a.m
Batch File: /chem/msdp.i/29OCT20.b
Instrument Names: msdp.i
Student T 2.896 for 9 Replicates with 99% Confidence

	Spiked ID(s)	Spiked Vol(s)

ID:	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09
FILENAME:	p102707EPALB	p102708EPALB	p102709EPALB	p102806EPALB	p102807EPALB	p102808EPALB	p102907EPALB	p102908EPALB	p102909EPALB
INJ.DATE:	27-OCT-2020	27-OCT-2020	27-OCT-2020	28-OCT-2020	28-OCT-2020	28-OCT-2020	29-OCT-2020	29-OCT-2020	29-OCT-2020
INJ.TIME:	13:05	13:52	14:22	12:51	14:00	14:29	12:51	13:49	14:18

	Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	SPK AMT	RL	RATIO	MDL
1	Freon 134a	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	2.00	1.00	0.000000
2	Propylene	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	2.00	1.00	0.000000
3	1,1-Difluoroethane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	2.00	1.00	0.000000
4	Freon 12	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000
5	Chlorodifluoromethane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000
6	Freon 114	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000
7	Isobutane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	2.00	1.00	0.000000
8	Chloromethane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000
9	Butane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000
10	Vinyl Chloride	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000
11	1,3-Butadiene	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000
12	Bromomethane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000
13	Chloroethane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000
14	Isopentane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000
15	Vinyl Bromide	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000
16	Freon 11	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000
17	Dichlorofluoromethane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	2.00	1.00	0.000000
18	Pentane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000
19	Ethanol	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000
20	Ethyl Ether	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000
21	Acrolein	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000

Reviewer 1 _____ Date: 11/03/20

Reviewer 2 _____ Date: 11/11/20

US32TAR1

SPIKED METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msdp.i/29OCT20.b/p20q1012a.m

Batch File: /chem/msdp.i/29OCT20.b

Instrument Names: msdp.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	SPK AMT	RL	RATIO	MDL	
22 Freon 113	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000	
23 1,1-Dichloroethene	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000	
24 Acetone 497.49	331.00	354.71	246.63	201.44	376.96	233.77	173.33	355.39	249.83	280.34	74.98	0.000000	0.400	1.29	217.15	
25 Iodomethane 65.08	65.08	27.98	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	10.34	22.52	0.000000	2.00	0.159	65.21	Ratio 1 t
26 Carbon Disulfide 195.78	151.31	148.10	133.40	158.96	153.20	166.49	113.13	146.20	117.68	143.16	18.17	0.000000	0.400	2.72	52.62	
27 2-Propanol 137.20	69.67	88.64	14.84	42.56	56.13	41.38	31.21	93.32	82.38	57.79	27.42	0.000000	0.400	0.728	79.41	Ratio 1 t
28 3-Chloropropene	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000	
29 Acetonitrile	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000	
30 Methylene Chloride 60.72	0.000000	0.000000	0.000000	60.72	0.000000	0.000000	0.000000	0.000000	0.000000	6.75	20.24	0.000000	0.400	0.115	58.61	Rat
31 tert-Butyl alcohol	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000	
32 Methyl tert-butyl ether	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000	
33 trans-1,2-Dichloroethene	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000	
34 Acrylonitrile	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000	
35 Hexane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000	
36 Isopropyl ether	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	2.00	1.00	0.000000	
37 1,1-Dichloroethane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000	
38 Vinyl Acetate	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000	
39 Ethyl-tert-butyl ether	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	2.00	1.00	0.000000	
40 2,2-Dichloropropane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	2.00	1.00	0.000000	
41 cis-1,2-Dichloroethene	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000	
42 2-Butanone	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000	
43 Ethyl Acetate	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000	
* 44 Bromochloromethane	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	0.000000	0.000000	0.400	1.00	0.000000	
45 Tetrahydrofuran	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000	
46 Chloroform	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000	
47 Cyclohexane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000	
48 1,1,1-Trichloroethane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000	
49 Carbon Tetrachloride	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000	

Reviewer 1 _____ Date:_____

Reviewer 2 _____ Date:_____

US32TAR1

SPIKED METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msdp.i/29OCT20.b/p20q1012a.m
Batch File: /chem/msdp.i/29OCT20.b
Instrument Names: msdp.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	SPK AMT	RL	RATIO	MDL	
50 1,1-Dichloropropene	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	2.00	1.00	0.000000	
51 2,2,4-Trimethylpentane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000	
52 Benzene	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000	
$ 53 1,2-Dichloroethane-d4	25449.00	26875.00	26033.00	28600.00	27056.00	27244.00	27238.00	27582.00	27588.00	27073.89	913.17	0.000000	0.400	10.24	2644.53	
54 tert-Amyl methyl ether	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	2.00	1.00	0.000000	
55 1,2-Dichloroethane 10.40	0.000000	0.000000	0.000000	0.000000	10.40	0.000000	0.000000	0.000000	0.000000	1.16	3.47	0.000000	0.400	0.115	10.04	Rati
56 Heptane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000	
* 57 1,4-Difluorobenzene	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	0.000000	0.000000	0.400	1.00	0.000000	
58 n-Butanol 68.07	52.43	0.000000	39.24	68.07	0.000000	0.000000	38.26	54.00	0.000000	28.00	27.94	0.000000	0.400	0.346	80.92	Rati
59 Trichloroethene	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000	
60 Methylcyclohexane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	2.00	1.00	0.000000	
61 1,2-Dichloropropane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000	
62 Methyl Methacrylate	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000	
63 1,4-Dioxane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000	
64 Dibromomethane 76.07	0.000000	0.000000	50.85	30.83	0.000000	0.000000	76.07	28.33	20.27	22.93	26.94	0.000000	0.400	0.294	78.01	Ratio 1 t
65 Bromodichloromethane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000	
66 1-Bromo-2-Chloroethane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	2.00	1.00	0.000000	
67 cis-1,3-Dichloropropene	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000	
68 4-Methyl-2-pentanone	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000	
$ 69 Toluene-d8	24332.00	24851.00	24110.00	24640.00	24909.00	24437.00	24430.00	24025.00	23792.00	24391.78	374.29	0.000000	0.400	22.50	1083.95	
70 Octane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000	
71 Toluene	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000	
72 trans-1,3-Dichloropropene	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000	
73 1,1,2-Trichloroethane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000	
74 Tetrachloroethene 7.09	7.09	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.788	2.36	0.000000	0.400	0.115	6.85	Ratio 1 t
75 1,3-Dichloropropane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	2.00	1.00	0.000000	
76 2-Hexanone	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000	
77 Dibromochloromethane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000	
78 1,2-Dibromoethane (EDB)	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000	
* 79 Chlorobenzene-d5	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	0.000000	0.000000	0.400	1.00	0.000000	

80	Chlorobenzene	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000			
81	Ethyl Benzene	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000			
82	Nonane 46.24	0.000000	0.000000	0.000000	46.24	0.000000	0.000000	0.000000	0.000000	0.000000	5.14	15.41	0.000000	0.400	0.115	44.64	Ratio 1 t	
83	1,1,1,2-Tetrachloroethane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000			
84	m,p-Xylene 19.29	0.000000	0.000000	0.000000	19.29	0.000000	0.000000	0.000000	0.000000	0.000000	2.14	6.43	0.000000	0.400	0.115	18.62	Ratio 1 t	
85	o-Xylene 8.96	0.000000	0.000000	0.000000	8.96	0.000000	0.000000	0.000000	0.000000	0.000000	0.996	2.99	0.000000	0.400	0.115	8.65	Ratio 1 t	
86	Styrene	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000			
87	Bromoform	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000			
88	Cumene	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000			
89	Cyclohexanone	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000			
$ 90	4-Bromofluorobenzene	26249.00	25487.00	25699.00	25494.00	25682.00	25924.00	26381.00	25900.00	26007.00	25869.22	312.25	0.000000	5.00	1.00	0.000000		
91	1,1,2,2-Tetrachloroethane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	28.61	904.27			
92	Bromobenzene	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000			
93	Propylbenzene	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	2.00	1.00	0.000000			
94	1,2,3-Trichloropropane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000			
95	trans-1,4-Dichloro-2-butene	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	2.00	1.00	0.000000			
96	4-Ethyltoluene	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000			
97	Decane 573.14	491.02	405.05	339.69	573.14	403.12	0.000000	563.04	396.70	325.06	388.54	170.65	0.000000	0.400	0.786	494.19	Rati	
98	2-Chlorotoluene	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000			
99	1,3,5-Trimethylbenzene 11.91	7.14	11.91	0.000000	0.000000	0.000000	0.000000	10.79	0.000000	0.000000	3.32	5.13	0.000000	0.400	0.223	14.85	Rati	
100	alpha Methyl Styrene	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000			
101	tert-Butylbenzene 32.20	32.20	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	3.58	10.73	0.000000	0.400	0.115	31.09	Rati	
102	1,2,4-Trimethylbenzene 40.41	0.000000	11.59	3.17	40.41	0.000000	0.000000	0.000000	20.21	0.000000	8.38	13.94	0.000000	0.400	0.207	40.37	Ratio 1 t	
103	sec-Butylbenzene	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000			
104	p-Cymene 4.91	4.91	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.545	1.64	0.000000	0.400	0.115	4.74	Ratio 1 t	
105	1,3-Dichlorobenzene 6.61	0.000000	6.61	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.735	2.20	0.000000	0.400	0.115	6.38	Ratio 1 t	
106	1,4-Dichlorobenzene 10.61	0.000000	0.000000	0.000000	10.61	0.000000	0.000000	0.000000	0.000000	0.000000	1.18	3.54	0.000000	0.400	0.115	10.25	Ratio 1 t	
107	alpha-Chlorotoluene	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000			
108	Undecane 183.60	0.000000	0.000000	106.80	130.26	91.15	137.17	174.19	146.33	183.60	107.72	67.57	0.000000	0.400	0.551	195.68	Ratio 1 t	
109	Butylbenzene 45.09	26.38	12.90	0.000000	45.09	0.000000	0.000000	14.12	0.000000	0.000000	10.94	15.88	0.000000	0.400	0.238	45.98	Ratio 1 t	
110	1,2-Dichlorobenzene 20.05	26.05	0.000000	0.000000	13.71	0.000000	0.000000	0.000000	0.000000	0.000000	4.42	9.29	0.000000	0.400	0.164	26.91	Ratio 1 t	
111	1,2-Dibromo-3-chloropropane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	2.00	1.00	0.000000			
112	Dodecane 719.23	0.000000	66.26	60.12	719.23	236.24	131.75	184.35	143.99	116.87	184.31	212.46	0.000000	0.400	0.300	615.27	Ratio 1 t	
113	1,2,4-Trichlorobenzene 65.18	65.18	48.80	15.77	46.15	24.18	0.000000	13.22	59.47	0.000000	30.31	25.09	0.000000	0.400	0.417	72.67	Ratio 1 t	
114	Hexachlorobutadiene 38.61	0.000000	0.000000	0.000000	38.61	0.000000	0.000000	0.000000	0.000000	0.000000	4.29	12.87	0.000000	0.400	0.115	37.27	Ratio 1 t	
115	Naphthalene 385.24	42.99	32.63	22.36	385.24	178.02	96.40	0.000000	0.000000	34.33	88.00	124.65	0.000000	0.400	0.244	360.98	Ratio 1 t	
116	1,2,3-Trichlorobenzene 129.49	129.49	0.000000	0.000000	74.71	47.26	0.000000	0.000000	0.000000	0.000000	27.94	46.85	0.000000	0.400	0.206	135.67	Ratio 1 t	

Reviewer 1 _____ Date: 11/03/20

Reviewer 2 _____ Date: _____

eurofins | Air Toxics

Client ID:	CCV		
Lab ID:	2108676A-03A	**Date/Time Analyzed:**	9/2/21 09:55 AM
Date/Time Collected:	NA - Not Applicable	**Dilution Factor:**	1.00
Media:	NA - Not Applicable	**Instrument/Filename:**	msdp.i / p090202

Compound	CAS#	%Recovery
1,1,1,2-Tetrachloroethane	630-20-6	113
1,1,1-Trichloroethane	71-55-6	112
1,1,2,2-Tetrachloroethane	79-34-5	104
1,1,2-Trichloroethane	79-00-5	107
1,1-Dichloroethane	75-34-3	99
1,1-Dichloroethene	75-35-4	82
1,1-Difluoroethane	75-37-6	90
1,2,3-Trichloropropane	96-18-4	114
1,2,4-Trichlorobenzene	120-82-1	102
1,2,4-Trimethylbenzene	95-63-6	110
1,2-Dibromo-3-chloropropane	96-12-8	114
1,2-Dibromoethane (EDB)	106-93-4	110
1,2-Dichlorobenzene	95-50-1	117
1,2-Dichloroethane	107-06-2	137 Q
1,2-Dichloropropane	78-87-5	100
1,3,5-Trimethylbenzene	108-67-8	112
1,3-Butadiene	106-99-0	122
1,3-Dichlorobenzene	541-73-1	120
1,4-Dichlorobenzene	106-46-7	118
1,4-Dioxane	123-91-1	95
2,2,4-Trimethylpentane	540-84-1	102
2-Butanone (Methyl Ethyl Ketone)	78-93-3	80
2-Hexanone	591-78-6	111
2-Propanol	67-63-0	113

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Client ID:	CCV		
Lab ID:	2108676A-03A	**Date/Time Analyzed:**	9/2/21 09:55 AM
Date/Time Collected:	NA - Not Applicable	**Dilution Factor:**	1.00
Media:	NA - Not Applicable	**Instrument/Filename:**	msdp.i / p090202

Compound	CAS#	%Recovery
3-Chloropropene	107-05-1	75
4-Ethyltoluene	622-96-8	112
4-Methyl-2-pentanone	108-10-1	106
Acetone	67-64-1	97
Acrolein	107-02-8	96
Acrylonitrile	107-13-1	112
alpha-Chlorotoluene	100-44-7	108
Benzene	71-43-2	93
Bromodichloromethane	75-27-4	118
Bromoform	75-25-2	121
Bromomethane	74-83-9	87
Carbon Disulfide	75-15-0	81
Carbon Tetrachloride	56-23-5	124
Chlorobenzene	108-90-7	104
Chloroethane	75-00-3	83
Chloroform	67-66-3	105
Chloromethane	74-87-3	134 Q
cis-1,2-Dichloroethene	156-59-2	91
cis-1,3-Dichloropropene	10061-01-5	96
Cumene	98-82-8	102
Cyclohexane	110-82-7	81
Dibromochloromethane	124-48-1	122
Dibromomethane	74-95-3	120
Ethanol	64-17-5	108

eurofins | Air Toxics

Client ID:	CCV		
Lab ID:	2108676A-03A	**Date/Time Analyzed:**	9/2/21 09:55 AM
Date/Time Collected:	NA - Not Applicable	**Dilution Factor:**	1.00
Media:	NA - Not Applicable	**Instrument/Filename:**	msdp.i / p090202

Compound	CAS#	%Recovery
Ethyl Acetate	141-78-6	126
Ethyl Benzene	100-41-4	101
Ethyl-tert-butyl ether	637-92-3	92
Freon 11	75-69-4	119
Freon 113	76-13-1	100
Freon 114	76-14-2	104
Freon 12	75-71-8	116
Freon 134a	811-97-2	122
Heptane	142-82-5	87
Hexachlorobutadiene	87-68-3	113
Hexachloroethane	67-72-1	123
Hexane	110-54-3	96
Iodomethane	74-88-4	101
Isopropyl ether	108-20-3	116
m,p-Xylene	108-38-3	101
Methyl tert-butyl ether	1634-04-4	85
Methylene Chloride	75-09-2	129
Naphthalene	91-20-3	79
o-Xylene	95-47-6	99
Propylbenzene	103-65-1	109
Propylene	115-07-1	112
Styrene	100-42-5	99
tert-Amyl methyl ether	994-05-8	98
tert-Butyl alcohol	75-65-0	93

Client ID:	CCV		
Lab ID:	2108676A-03A	**Date/Time Analyzed:**	9/2/21 09:55 AM
Date/Time Collected:	NA - Not Applicable	**Dilution Factor:**	1.00
Media:	NA - Not Applicable	**Instrument/Filename:**	msdp.i / p090202

Compound	CAS#	%Recovery
Tetrachloroethene	127-18-4	114
Tetrahydrofuran	109-99-9	120
Toluene	108-88-3	100
TPH ref. to Gasoline (MW=100)	9999-9999-038	100
trans-1,2-Dichloroethene	156-60-5	90
trans-1,3-Dichloropropene	10061-02-6	106
Trichloroethene	79-01-6	105
Vinyl Acetate	108-05-4	84
Vinyl Bromide	593-60-2	84
Vinyl Chloride	75-01-4	89

Q = Exceeds Quality Control limits.
D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	119
4-Bromofluorobenzene	460-00-4	70-130	114
Toluene-d8	2037-26-5	70-130	100

US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/02SEP21.b/p090202.d
Lab Smp Id: CCV Client Smp ID: CCV
Inj Date : 02-SEP-2021 09:55
Operator : LD Inst ID: msdp.i
Smp Info : 50mL 3018-2192
Misc Info : 50ppbv (200ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/02SEP21.b/p21q0519a.m
Meth Date : 02-Sep-2021 12:01 lk8g Quant Type: ISTD
Cal Date : 19-MAY-2021 19:45 Cal File: p051915.d
Als bottle: 13 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT20_new.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 90 Bromochloromethane					CAS #: 74-97-5		
5.778	5.778 (1.000)	130	111368	25.0000		80.00- 120.00	100.00
5.778	5.778 (1.000)	128	89014			48.23- 108.23	79.93
5.778	5.778 (1.000)	49	275354			150.57- 210.57	247.25
* 108 1,4-Difluorobenzene					CAS #: 540-36-3		
6.659	6.659 (1.000)	114	392899	25.0000		80.00- 120.00	100.00
6.659	6.659 (1.000)	88	58178			0.00- 45.71	14.81
* 153 Chlorobenzene-d5					CAS #: 3114-55-4		
9.460	9.460 (1.000)	117	382253	25.0000		80.00- 120.00	100.00
9.460	9.460 (1.000)	82	193506			23.78- 83.78	50.62
$ 104 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
6.308	6.308 (1.092)	65	183346	25.0000	29.831	80.00- 120.00	100.00
6.308	6.308 (1.092)	67	99712			27.21- 87.21	54.39
$ 134 Toluene-d8					CAS #: 2037-26-5		
7.891	7.891 (1.185)	98	426323	25.0000	24.988	80.00- 120.00	100.00
7.891	7.891 (1.185)	70	44236			0.00- 40.44	10.38

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 134 Toluene-d8 (continued)							
7.891	7.891 (1.185)	100	277590			34.95- 94.95	65.11
$ 170 4-Bromofluorobenzene					CAS #: 460-00-4		
10.921	10.921 (1.154)	174	279773	25.0000	28.502	80.00- 120.00	100.00
10.914	10.914 (1.154)	95	325083			95.92- 155.92	116.19
10.921	10.921 (1.154)	176	270939			66.89- 126.89	96.84
4 Freon 134a					CAS #: 811-97-2		
1.646	1.646 (0.285)	83	215304	50.0000	61.082	80.00- 120.00	100.00
1.646	1.646 (0.285)	69	139765			59.44- 119.44	64.92
1.744	1.744 (0.302)	51	1037280			419.06- 479.06	481.77
5 Propylene					CAS #: 115-07-1		
1.674	1.674 (0.290)	41	286209	50.0000	56.160	80.00- 120.00	100.00
1.674	1.674 (0.290)	42	194434			35.28- 95.28	67.93
1.674	1.674 (0.290)	39	204602			38.35- 98.35	71.49
7 1,1-Difluoroethane					CAS #: 75-37-6		
1.702	1.702 (0.295)	65	113574	50.0000	44.991	80.00- 120.00	100.00
1.744	1.744 (0.302)	51	1037280			597.63- 657.63	913.30
1.702	1.702 (0.295)	47	121201			33.72- 93.72	106.72
8 Freon 12					CAS #: 75-71-8		
1.716	1.716 (0.297)	85	577026	50.0000	57.768	80.00- 120.00	100.00
1.716	1.716 (0.297)	87	190013			2.37- 62.37	32.93
9 Chlorodifluoromethane					CAS #: 75-45-6		
1.744	1.744 (0.302)	67	65732	50.0000	66.621	80.00- 120.00	100.00
1.744	1.744 (0.302)	51	1037280			1501.01-1561.01	1578.03
10 Freon 114					CAS #: 76-14-2		
1.856	1.856 (0.321)	135	511582	50.0000	52.176	80.00- 120.00	100.00
1.856	1.856 (0.321)	137	163495			2.30- 62.30	31.96
12 Isobutane					CAS #: 75-28-5		
1.870	1.870 (0.324)	43	622130	50.0000	55.140	80.00- 120.00	100.00
1.870	1.870 (0.324)	42	204814			2.44- 62.44	32.92
1.870	1.870 (0.324)	58	15631			0.00- 33.36	2.51
15 Chloromethane					CAS #: 74-87-3		
1.940	1.940 (0.336)	50	387548	50.0000	66.878	80.00- 120.00	100.00
1.940	1.940 (0.336)	52	96499			0.00- 56.26	24.90
18 Butane					CAS #: 106-97-8		
2.032	2.032 (0.352)	58	56336	50.0000	41.968	80.00- 120.00	100.00

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
18 Butane (continued)							
2.032	2.032 (0.352)	43	586754			823.29- 883.29	1041.52
19 Vinyl Chloride					CAS #: 75-01-4		
2.067	2.067 (0.358)	62	309798	50.0000	44.439	80.00- 120.00	100.00
2.075	2.075 (0.359)	64	87258			0.00- 59.69	28.17
20 1,3-Butadiene					CAS #: 106-99-0		
2.096	2.096 (0.363)	54	342239	50.0000	61.038	80.00- 120.00	100.00
2.089	2.089 (0.362)	39	308197			52.37- 112.37	90.05
24 Bromomethane					CAS #: 74-83-9		
2.483	2.483 (0.430)	94	195980	50.0000	43.721	80.00- 120.00	100.00
2.483	2.483 (0.430)	96	190402			64.07- 124.07	97.15
30 Chloroethane					CAS #: 75-00-3		
2.612	2.612 (0.452)	64	103584	50.0000	41.321	80.00- 120.00	100.00
2.612	2.612 (0.452)	66	29530			0.04- 60.04	28.51
2.612	2.612 (0.452)	49	52207			4.54- 64.54	50.40
31 Isopentane					CAS #: 78-78-4		
2.633	2.633 (0.456)	43	425586	50.0000	55.794	80.00- 120.00	100.00
2.641	2.641 (0.457)	57	227842			34.12- 94.12	53.54
32 Vinyl Bromide					CAS #: 593-60-2		
2.841	2.841 (0.492)	106	174630	50.0000	42.148	80.00- 120.00	100.00
2.841	2.841 (0.492)	108	171942			69.27- 129.27	98.46
33 Freon 11					CAS #: 75-69-4		
2.891	2.891 (0.500)	101	633036	50.0000	59.639	80.00- 120.00	100.00
2.891	2.891 (0.500)	103	417577			34.72- 94.72	65.96
34 Dichlorofluoromethane					CAS #: 75-43-4		
2.898	2.898 (0.502)	67	433093	50.0000	47.340	80.00- 120.00	100.00
2.898	2.898 (0.502)	69	133092			0.84- 60.84	30.73
35 Pentane					CAS #: 109-66-0		
2.970	2.970 (0.514)	43	674257	50.0000	54.382	80.00- 120.00	100.00
2.970	2.970 (0.514)	57	82750			0.00- 44.98	12.27
2.970	2.970 (0.514)	72	35739			0.00- 37.39	5.30
38 Ethyl Ether					CAS #: 60-29-7		
3.285	3.285 (0.569)	74	77876	50.0000	37.230	80.00- 120.00	100.00
3.285	3.285 (0.569)	59	182714			163.46- 223.46	234.62
3.285	3.285 (0.569)	45	337097			250.40- 310.40	432.86

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
39 Ethanol					CAS #: 64-17-5		
3.242	3.242 (0.561)	46	59528	50.0000	53.899	80.00- 120.00	100.00
3.285	3.285 (0.569)	45	335010			511.19- 571.19	562.78
42 Acrolein					CAS #: 107-02-8		
3.536	3.536 (0.612)	55	92095	50.0000	48.056	80.00- 120.00	100.00
3.536	3.536 (0.612)	56	124010			111.10- 171.10	134.65
43 Freon 113					CAS #: 76-13-1		
3.550	3.550 (0.614)	151	395640	50.0000	50.168	80.00- 120.00	100.00
3.550	3.550 (0.614)	153	248221			33.56- 93.56	62.74
3.550	3.550 (0.614)	101	462109			89.21- 149.21	116.80
44 1,1-Dichloroethene					CAS #: 75-35-4		
3.579	3.579 (0.619)	96	193892	50.0000	41.156	80.00- 120.00	100.00
3.579	3.579 (0.619)	98	121022			34.02- 94.02	62.42
3.579	3.579 (0.619)	61	461368			168.77- 228.77	237.95
47 Acetone					CAS #: 67-64-1		
3.715	3.715 (0.643)	58	141938	50.0000	48.615	80.00- 120.00	100.00
3.715	3.715 (0.643)	43	596650			302.95- 362.95	420.36
48 Carbon Disulfide					CAS #: 75-15-0		
3.822	3.822 (0.662)	76	502910	50.0000	40.518	80.00- 120.00	100.00
49 Iodomethane					CAS #: 74-88-4		
3.794	3.794 (0.657)	142	415787	50.0000	50.393	80.00- 120.00	100.00
3.794	3.794 (0.657)	127	226767			12.22- 72.22	54.54
52 2-Propanol					CAS #: 67-63-0		
3.887	3.887 (0.673)	45	665059	50.0000	56.518	80.00- 120.00	100.00
3.887	3.887 (0.673)	43	143911			0.00- 47.19	21.64
54 3-Chloropropene					CAS #: 107-05-1		
4.052	4.052 (0.701)	76	77570	50.0000	37.410	80.00- 120.00	100.00
4.045	4.045 (0.700)	41	484327			396.19- 456.19	624.37
57 Acetonitrile					CAS #: 75-05-8		
4.123	4.123 (0.714)	41	329024	50.0000	59.992	80.00- 120.00	100.00
4.123	4.123 (0.714)	40	175949			20.95- 80.95	53.48
4.123	4.123 (0.714)	38	37773			0.00- 41.17	11.48
59 Methylene Chloride					CAS #: 75-09-2		
4.238	4.238 (0.733)	49	489190	50.0000	64.506	80.00- 120.00	100.00
4.238	4.238 (0.733)	84	166079			22.03- 82.03	33.95
4.238	4.238 (0.733)	51	140958			0.18- 60.18	28.81

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
62 tert-Butyl alcohol					CAS #: 75-65-0		
4.338	4.338 (0.751)	59	639215	50.0000	46.582	80.00- 120.00	100.00
4.338	4.338 (0.751)	41	176828			0.00- 51.11	27.66
4.338	4.338 (0.751)	57	73993			0.00- 40.49	11.58
63 Methyl tert-butyl ether					CAS #: 1634-04-4		
4.446	4.446 (0.769)	73	579584	50.0000	42.377	80.00- 120.00	100.00
4.446	4.446 (0.769)	57	225005			3.10- 63.10	38.82
4.446	4.446 (0.769)	41	265520			1.28- 61.28	45.81
64 trans-1,2-Dichloroethene					CAS #: 156-60-5		
4.481	4.481 (0.776)	98	140945	50.0000	44.774	80.00- 120.00	100.00
4.474	4.474 (0.774)	61	444056			255.84- 315.84	315.06
4.474	4.474 (0.774)	96	221150			127.59- 187.59	156.90
66 Acrylonitrile					CAS #: 107-13-1		
4.560	4.560 (0.789)	52	245263	50.0000	55.970	80.00- 120.00	100.00
4.560	4.560 (0.789)	53	285603			88.05- 148.05	116.45
67 Hexane					CAS #: 110-54-3		
4.696	4.696 (0.813)	57	524388	50.0000	47.797	80.00- 120.00	100.00
4.696	4.696 (0.813)	43	430763			37.52- 97.52	82.15
4.696	4.696 (0.813)	86	51743			0.00- 41.48	9.87
71 1,1-Dichloroethane					CAS #: 75-34-3		
4.961	4.961 (0.859)	63	468337	50.0000	49.656	80.00- 120.00	100.00
4.961	4.961 (0.859)	65	132350			0.00- 59.70	28.26
72 Isopropyl ether					CAS #: 108-20-3		
4.947	4.947 (0.856)	45	1483407	50.0000	58.137	80.00- 120.00	100.00
4.954	4.954 (0.857)	87	188891			0.00- 48.18	12.73
4.947	4.947 (0.856)	59	121119			0.00- 40.15	8.16
73 Vinyl Acetate					CAS #: 108-05-4		
4.997	4.997 (0.865)	86	50792	50.0000	41.904	80.00- 120.00	100.00
4.990	4.990 (0.864)	43	1309574			2432.48-2492.48	2578.29
79 Ethyl-tert-butyl ether					CAS #: 637-92-3		
5.305	5.305 (0.918)	59	1021094	50.0000	46.230	80.00- 120.00	100.00
5.305	5.305 (0.918)	87	292840			1.00- 61.00	28.68
5.305	5.305 (0.918)	41	280809			0.00- 48.73	27.50
84 2,2-Dichloropropane					CAS #: 594-20-7		
5.506	5.506 (0.953)	77	448896	50.0000	53.598	80.00- 120.00	100.00
5.506	5.506 (0.953)	79	143406			2.28- 62.28	31.95
5.513	5.513 (0.954)	97	98192			0.00- 53.93	21.87

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
85 cis-1,2-Dichloroethene					CAS #: 156-59-2		
5.549	5.549 (0.960)	98	148921	50.0000	45.587	80.00- 120.00	100.00
5.549	5.549 (0.960)	96	234374			125.75- 185.75	157.38
5.549	5.549 (0.960)	61	600349			332.40- 392.40	403.13
86 2-Butanone					CAS #: 78-93-3		
5.556	5.556 (0.962)	72	100302	50.0000	39.846	80.00- 120.00	100.00
5.563	5.563 (0.963)	43	1967208			1214.50-1274.50	1961.28
5.556	5.556 (0.962)	57	58802			14.68- 74.68	58.63
87 Ethyl Acetate					CAS #: 141-78-6		
5.570	5.570 (0.964)	45	158423	50.0000	63.273	80.00- 120.00	100.00
5.549	5.549 (0.960)	61	600349			452.04- 512.04	378.95
5.570	5.570 (0.964)	70	49429			22.77- 82.77	31.20
89 Tetrahydrofuran					CAS #: 109-99-9		
5.771	5.771 (0.999)	42	500722	50.0000	59.811	80.00- 120.00	100.00
5.778	5.778 (1.000)	71	83928			0.00- 55.82	16.76
5.771	5.771 (0.999)	72	91422			0.00- 57.59	18.26
92 Chloroform					CAS #: 67-66-3		
5.835	5.835 (1.010)	83	510643	50.0000	52.698	80.00- 120.00	100.00
5.835	5.835 (1.010)	85	331433			34.70- 94.70	64.90
94 Cyclohexane					CAS #: 110-82-7		
5.957	5.957 (1.031)	84	285006	50.0000	40.683	80.00- 120.00	100.00
5.957	5.957 (1.031)	56	600173			142.57- 202.57	210.58
5.957	5.957 (1.031)	41	384575			62.09- 122.09	134.94
96 1,1,1-Trichloroethane					CAS #: 71-55-6		
5.971	5.971 (1.033)	97	611399	50.0000	55.852	80.00- 120.00	100.00
5.971	5.971 (1.033)	99	387478			34.02- 94.02	63.38
97 Carbon Tetrachloride					CAS #: 56-23-5		
6.086	6.086 (1.053)	119	638160	50.0000	62.157	80.00- 120.00	100.00
6.086	6.086 (1.053)	117	636459			70.64- 130.64	99.73
99 1,1-Dichloropropene					CAS #: 563-58-6		
6.115	6.115 (0.918)	110	130606	50.0000	48.835	80.00- 120.00	100.00
6.115	6.115 (0.918)	75	327044			226.85- 286.85	250.41
101 2,2,4-Trimethylpentane					CAS #: 540-84-1		
6.279	6.279 (1.087)	57	1950294	50.0000	51.145	80.00- 120.00	100.00
6.279	6.279 (1.087)	56	670054			2.24- 62.24	34.36
6.279	6.279 (1.087)	41	622301			0.00- 54.39	31.91

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
102 Benzene					CAS #: 71-43-2		
6.301	6.301 (0.946)	78	605565	50.0000	46.706	80.00- 120.00	100.00
6.301	6.301 (0.946)	77	144865			0.00- 52.90	23.92
105 tert-Amyl methyl ether					CAS #: 994-05-8		
6.358	6.358 (0.955)	87	179300	50.0000	49.044	80.00- 120.00	100.00
6.358	6.358 (0.955)	73	693241			372.79- 432.79	386.64
6.358	6.358 (0.955)	55	327588			112.09- 172.09	182.70
106 1,2-Dichloroethane					CAS #: 107-06-2		
6.380	6.380 (0.958)	62	460790	50.0000	68.301	80.00- 120.00	100.00
6.380	6.380 (0.958)	64	135600			0.79- 60.79	29.43
107 Heptane					CAS #: 142-82-5		
6.444	6.444 (0.968)	71	224414	50.0000	43.691	80.00- 120.00	100.00
6.444	6.444 (0.968)	43	873087			226.53- 286.53	389.05
6.444	6.444 (0.968)	57	379549			100.85- 160.85	169.13
110 n-Butanol					CAS #: 71-36-3		
6.809	6.809 (1.023)	56	255819	50.0000	54.270	80.00- 120.00	100.00
6.809	6.809 (1.023)	41	218672			40.99- 100.99	85.48
6.809	6.809 (1.023)	43	176374			27.38- 87.38	68.94
111 Trichloroethene					CAS #: 79-01-6		
6.867	6.867 (1.031)	95	331455	50.0000	52.684	80.00- 120.00	100.00
6.867	6.867 (1.031)	130	369059			76.29- 136.29	111.35
6.867	6.867 (1.031)	97	216773			33.63- 93.63	65.40
114 1,2-Dichloropropane					CAS #: 78-87-5		
7.096	7.096 (1.066)	63	331835	50.0000	49.922	80.00- 120.00	100.00
7.096	7.096 (1.066)	62	243711			41.07- 101.07	73.44
7.096	7.096 (1.066)	41	291128			22.53- 82.53	87.73
116 Methyl Methacrylate					CAS #: 80-62-6		
7.139	7.139 (0.755)	69	239031	50.0000	45.510	80.00- 120.00	100.00
7.139	7.139 (0.755)	41	678855			179.84- 239.84	284.00
7.139	7.139 (0.755)	100	97550			9.59- 69.59	40.81
117 1,4-Dioxane					CAS #: 123-91-1		
7.175	7.175 (1.077)	88	167118	50.0000	47.308	80.00- 120.00	100.00
7.175	7.175 (1.077)	58	193041			68.28- 128.28	115.51
7.175	7.175 (1.077)	57	69235			2.68- 62.68	41.43
118 Dibromomethane					CAS #: 74-95-3		
7.211	7.211 (0.762)	174	339250	50.0000	59.808	80.00- 120.00	100.00
7.203	7.203 (0.761)	93	307649			60.09- 120.09	90.69

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
118 Dibromomethane (continued)							
7.203	7.203 (0.761)	95	266647			48.38- 108.38	78.60
122 Bromodichloromethane					CAS #: 75-27-4		
7.318	7.318 (1.099)	83	575518	50.0000	58.998	80.00- 120.00	100.00
7.318	7.318 (1.099)	85	371541			35.24- 95.24	64.56
126 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.698	7.698 (1.156)	75	395021	50.0000	47.932	80.00- 120.00	100.00
7.698	7.698 (1.156)	77	125789			2.42- 62.42	31.84
7.690	7.690 (1.155)	39	363692			37.16- 97.16	92.07
127 Methylcyclohexane					CAS #: 108-87-2		
6.974	6.974 (1.047)	83	417181	50.0000	45.823	80.00- 120.00	100.00
6.974	6.974 (1.047)	98	209175			15.78- 75.78	50.14
6.974	6.974 (1.047)	55	605616			84.64- 144.64	145.17
131 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.798	7.798 (1.171)	58	356719	50.0000	52.847	80.00- 120.00	100.00
7.791	7.791 (1.170)	43	1232461			242.35- 302.35	345.50
7.798	7.798 (1.171)	85	99570			3.24- 63.24	27.91
137 Toluene					CAS #: 108-88-3		
7.948	7.948 (1.194)	91	895945	50.0000	50.086	80.00- 120.00	100.00
7.948	7.948 (1.194)	92	519960			28.38- 88.38	58.03
136 Octane					CAS #: 111-65-9		
7.948	7.948 (1.194)	57	425948	50.0000	55.846	80.00- 120.00	100.00
7.948	7.948 (1.194)	85	291401			56.00- 116.00	68.41
7.948	7.948 (1.194)	43	1339385			228.66- 288.66	314.45
139 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
8.213	8.213 (0.868)	75	400201	50.0000	53.202	80.00- 120.00	100.00
8.213	8.213 (0.868)	77	125230			1.24- 61.24	31.29
8.213	8.213 (0.868)	39	339208			34.11- 94.11	84.76
141 1,1,2-Trichloroethane					CAS #: 79-00-5		
8.400	8.400 (0.888)	97	332793	50.0000	53.525	80.00- 120.00	100.00
8.400	8.400 (0.888)	99	204137			31.96- 91.96	61.34
8.400	8.400 (0.888)	83	264652			52.93- 112.93	79.52
142 Tetrachloroethene					CAS #: 127-18-4		
8.464	8.464 (0.895)	166	494402	50.0000	56.750	80.00- 120.00	100.00
8.464	8.464 (0.895)	129	380502			47.84- 107.84	76.96
8.464	8.464 (0.895)	131	373005			45.29- 105.29	75.45

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
143 2-Hexanone					CAS #: 591-78-6		
8.586	8.586 (0.908)	58	491540	50.0000	55.334	80.00- 120.00	100.00
8.586	8.586 (0.908)	43	1194241			162.87- 222.87	242.96
8.586	8.586 (0.908)	100	65891			0.00- 45.94	13.41
144 1,3-Dichloropropane					CAS #: 142-28-9		
8.579	8.579 (1.288)	76	436052	50.0000	51.332	80.00- 120.00	100.00
8.579	8.579 (1.288)	41	755229			94.99- 154.99	173.20
8.579	8.579 (1.288)	78	142429			2.05- 62.05	32.66
146 Dibromochloromethane					CAS #: 124-48-1		
8.801	8.801 (0.930)	129	705853	50.0000	60.760	80.00- 120.00	100.00
8.801	8.801 (0.930)	127	547975			47.45- 107.45	77.63
148 1,2-Dibromoethane (EDB)					CAS #: 106-93-4		
8.951	8.951 (0.946)	107	548490	50.0000	55.002	80.00- 120.00	100.00
8.951	8.951 (0.946)	109	515263			64.21- 124.21	93.94
151 1-Bromo-2-Chloroethane					CAS #: 107-04-0		
7.605	7.605 (1.142)	63	629665	50.0000	51.628	80.00- 120.00	100.00
7.605	7.605 (1.142)	65	175034			0.00- 59.64	27.80
7.605	7.605 (1.142)	144	65410			0.00- 39.63	10.39
154 Chlorobenzene					CAS #: 108-90-7		
9.496	9.496 (1.004)	112	791543	50.0000	52.148	80.00- 120.00	100.00
9.496	9.496 (1.004)	114	253062			1.74- 61.74	31.97
9.496	9.496 (1.004)	77	402594			25.04- 85.04	50.86
155 Ethyl Benzene					CAS #: 100-41-4		
9.567	9.567 (1.011)	106	399239	50.0000	50.301	80.00- 120.00	100.00
9.567	9.567 (1.011)	91	1196953			273.74- 333.74	299.81
156 Nonane					CAS #: 111-84-2		
9.596	9.596 (1.014)	43	1382774	50.0000	67.714	80.00- 120.00	100.00
9.596	9.596 (1.014)	57	940320			54.16- 114.16	68.00
9.603	9.603 (1.015)	85	221415			0.00- 53.90	16.01
158 m,p-Xylene					CAS #: 108-38-3		
9.718	9.718 (1.027)	106	500054	50.0000	50.304	80.00- 120.00	100.00
9.718	9.718 (1.027)	91	953632			163.73- 223.73	190.71
164 o-Xylene					CAS #: 95-47-6		
10.226	10.226 (1.081)	106	471453	50.0000	49.501	80.00- 120.00	100.00
10.226	10.226 (1.081)	91	949569			177.45- 237.45	201.41
165 Styrene					CAS #: 100-42-5		
10.255	10.255 (1.084)	104	804229	50.0000	49.375	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
165 Styrene (continued)							
10.255	10.255 (1.084)	78	388541			17.88- 77.88	48.31
167 Bromoform					CAS #: 75-25-2		
10.541	10.541 (1.114)	173	692433	50.0000	60.470	80.00- 120.00	100.00
10.541	10.541 (1.114)	171	359534			21.25- 81.25	51.92
168 Cumene					CAS #: 98-82-8		
10.649	10.649 (1.126)	105	1530142	50.0000	51.143	80.00- 120.00	100.00
10.649	10.649 (1.126)	120	449428			0.00- 58.52	29.37
10.649	10.649 (1.126)	51	271574			0.00- 43.00	17.75
169 Cyclohexanone					CAS #: 108-94-1		
10.871	10.871 (1.149)	55	630936	50.0000	58.967	80.00- 120.00	100.00
10.871	10.871 (1.149)	98	162025			1.94- 61.94	25.68
10.871	10.871 (1.149)	42	473207			37.89- 97.89	75.00
175 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
11.100	11.100 (1.173)	83	757601	50.0000	51.880	80.00- 120.00	100.00
11.100	11.100 (1.173)	85	492970			35.20- 95.20	65.07
177 Bromobenzene					CAS #: 108-86-1		
11.100	11.100 (1.173)	156	526640	50.0000	57.876	80.00- 120.00	100.00
11.100	11.100 (1.173)	158	508916			67.21- 127.21	96.63
11.172	11.172 (1.181)	77	281776			29.02- 89.02	53.50
178 Propylbenzene					CAS #: 103-65-1		
11.150	11.150 (1.179)	120	483010	50.0000	54.447	80.00- 120.00	100.00
11.150	11.150 (1.179)	91	1846978			366.49- 426.49	382.39
11.150	11.150 (1.179)	105	73457			0.00- 44.85	15.21
179 1,2,3-Trichloropropane					CAS #: 96-18-4		
11.179	11.179 (1.182)	110	266074	50.0000	57.168	80.00- 120.00	100.00
11.179	11.179 (1.182)	75	729687			280.55- 340.55	274.24
11.100	11.100 (1.173)	61	144198			15.49- 75.49	54.19
181 trans-1,4-Dichloro-2-butene					CAS #: 110-57-6		
11.179	11.179 (1.182)	53	202610	50.0000	66.405	80.00- 120.00	100.00
11.172	11.172 (1.181)	89	132202			49.11- 109.11	65.25
11.179	11.179 (1.182)	75	729687			426.44- 486.44	360.14
182 Decane					CAS #: 124-18-5		
11.251	11.251 (1.189)	57	1291189	50.0000	55.482	80.00- 120.00	100.00
11.251	11.251 (1.189)	71	284689			0.00- 57.66	22.05
11.258	11.258 (1.190)	142	48455			0.00- 34.09	3.75

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
183 4-Ethyltoluene					CAS #: 622-96-8		
11.286	11.286 (1.193)	120	539151	50.0000	55.885	80.00- 120.00	100.00
11.286	11.286 (1.193)	105	1623246			284.55- 344.55	301.07
184 2-Chlorotoluene					CAS #: 95-49-8		
11.308	11.308 (1.195)	126	433516	50.0000	57.392	80.00- 120.00	100.00
11.308	11.308 (1.195)	91	1430200			315.17- 375.17	329.91
11.301	11.301 (1.195)	65	221357			21.55- 81.55	51.06
185 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
11.365	11.365 (1.201)	120	744328	50.0000	56.038	80.00- 120.00	100.00
11.365	11.365 (1.201)	105	1407986			164.93- 224.93	189.16
188 alpha Methyl Styrene					CAS #: 98-83-9		
11.644	11.644 (1.231)	118	658586	50.0000	49.911	80.00- 120.00	100.00
11.644	11.644 (1.231)	103	365061			25.30- 85.30	55.43
189 tert-Butylbenzene					CAS #: 98-06-6		
11.738	11.738 (1.241)	119	1452554	50.0000	58.468	80.00- 120.00	100.00
11.738	11.738 (1.241)	134	353186			0.00- 54.25	24.31
11.738	11.738 (1.241)	91	863717			31.27- 91.27	59.46
190 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
11.816	11.816 (1.249)	105	1377103	50.0000	54.928	80.00- 120.00	100.00
11.816	11.816 (1.249)	120	705447			19.05- 79.05	51.23
192 sec-Butylbenzene					CAS #: 135-98-8		
11.995	11.995 (1.268)	134	448596	50.0000	58.097	80.00- 120.00	100.00
11.995	11.995 (1.268)	105	2022439			437.55- 497.55	450.84
11.995	11.995 (1.268)	91	316938			40.76- 100.76	70.65
194 p-Cymene					CAS #: 99-87-6		
12.160	12.160 (1.285)	119	1942207	50.0000	56.909	80.00- 120.00	100.00
12.160	12.160 (1.285)	134	500197			0.00- 55.54	25.75
12.160	12.160 (1.285)	91	413071			0.00- 51.48	21.27
195 1,3-Dichlorobenzene					CAS #: 541-73-1		
12.196	12.196 (1.289)	146	1034515	50.0000	60.285	80.00- 120.00	100.00
12.196	12.196 (1.289)	148	662659			33.21- 93.21	64.06
12.196	12.196 (1.289)	111	405982			11.31- 71.31	39.24
196 1,4-Dichlorobenzene					CAS #: 106-46-7		
12.311	12.311 (1.301)	146	1026723	50.0000	59.207	80.00- 120.00	100.00
12.311	12.311 (1.301)	148	656851			33.90- 93.90	63.98
12.311	12.311 (1.301)	111	386046			9.45- 69.45	37.60

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
199 alpha-Chlorotoluene					CAS #: 100-44-7		
12.461	12.461 (1.317)	91	1290443	50.0000	54.190	80.00- 120.00	100.00
12.461	12.461 (1.317)	126	309551			0.00- 53.26	23.99
201 Undecane					CAS #: 1120-21-4		
12.640	12.640 (1.336)	57	1592719	50.0000	59.250	80.00- 120.00	100.00
12.640	12.640 (1.336)	43	1702320			58.12- 118.12	106.88
202 Butylbenzene					CAS #: 104-51-8		
12.626	12.626 (1.335)	134	493643	50.0000	56.951	80.00- 120.00	100.00
12.626	12.626 (1.335)	91	1629708			314.79- 374.79	330.14
12.626	12.626 (1.335)	92	849049			154.29- 214.29	172.00
204 1,2-Dichlorobenzene					CAS #: 95-50-1		
12.740	12.740 (1.347)	146	987884	50.0000	58.710	80.00- 120.00	100.00
12.740	12.740 (1.347)	148	633996			33.84- 93.84	64.18
12.733	12.733 (1.346)	111	403865			12.73- 72.73	40.88
206 1,2-Dibromo-3-chloropropane					CAS #: 96-12-8		
13.600	13.600 (1.438)	157	578387	50.0000	56.753	80.00- 120.00	100.00
13.600	13.600 (1.438)	75	481911			52.48- 112.48	83.32
13.600	13.600 (1.438)	155	442650			47.41- 107.41	76.53
207 Dodecane					CAS #: 112-40-3		
13.801	13.801 (1.459)	57	1263257	61.8000	59.288	80.00- 120.00	100.00
13.801	13.801 (1.459)	43	1249777			52.87- 112.87	98.93
213 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
14.467	14.467 (1.529)	180	795108	63.0000	63.957	80.00- 120.00	100.00
14.467	14.467 (1.529)	182	752080			65.33- 125.33	94.59
215 Hexachlorobutadiene					CAS #: 87-68-3		
14.581	14.581 (1.541)	225	636087	64.4000	72.702	80.00- 120.00	100.00
14.581	14.581 (1.541)	223	401491			33.17- 93.17	63.12
216 Naphthalene					CAS #: 91-20-3		
14.768	14.768 (1.561)	128	158614	6.35000	4.992	80.00- 120.00	100.00
14.768	14.768 (1.561)	127	21775			0.00- 42.88	13.73
222 1,2,3-Trichlorobenzene					CAS #: 87-61-6		
15.068	15.068 (1.593)	180	710933	66.6000	64.688	80.00- 120.00	100.00
15.068	15.068 (1.593)	182	680648			65.75- 125.75	95.74
15.068	15.068 (1.593)	145	236049			5.23- 65.23	33.20

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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msdp.i Injection Date: 02-SEP-2021 09:55
Lab File ID: p090202.d Init. Cal. Date(s): 19-MAY-2021 20-MAY-2021
Analysis Type: AIR Init. Cal. Times: 14:02 00:05
Lab Sample ID: CCV Quant Type: ISTD
Method: /chem/msdp.i/02SEP21.b/p21q0519a.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
$ 104 1,2-Dichloroethane-d4	1.37968	1.64630	0.010	-19.32424	30.00000	Averaged	
$ 134 Toluene-d8	1.08560	1.08507	0.010	0.04859	30.00000	Averaged	
$ 170 4-Bromofluorobenzene	0.64197	0.73191	0.010	-14.00932	30.00000	Averaged	
4 Freon 134a	0.79126	0.96663	0.010	-22.16360	30.00000	Averaged	
5 Propylene	1.14402	1.28496	0.010	-12.31994	30.00000	Averaged	
7 1,1-Difluoroethane	0.56667	0.50990	0.010	10.01791	30.00000	Averaged	
8 Freon 12	2.24223	2.59061	0.010	-15.53709	30.00000	Averaged	
9 Chlorodifluoromethane	0.22149	0.29511	0.010	-33.24175	30.00000	Averaged	<-
10 Freon 114	2.20100	2.29679	0.010	-4.35196	30.00000	Averaged	
12 Isobutane	2.53275	2.79311	0.010	-10.27964	30.00000	Averaged	
15 Chloromethane	1.30082	1.73993	0.010	-33.75650	30.00000	Averaged	<-
18 Butane	0.30133	0.25293	0.010	16.06360	30.00000	Averaged	
19 Vinyl Chloride	1.56492	1.39087	0.010	11.12212	30.00000	Averaged	
20 1,3-Butadiene	1.25865	1.53651	0.010	-22.07664	30.00000	Averaged	
24 Bromomethane	1.00624	0.87987	0.010	12.55840	30.00000	Averaged	
30 Chloroethane	0.56273	0.46505	0.010	17.35815	30.00000	Averaged	
31 Isopentane	1.71230	1.91071	0.010	-11.58745	30.00000	Averaged	
32 Vinyl Bromide	0.93008	0.78402	0.010	15.70413	30.00000	Averaged	
33 Freon 11	2.38274	2.84207	0.010	-19.27723	30.00000	Averaged	
34 Dichlorofluoromethane	2.05367	1.94441	0.010	5.32019	30.00000	Averaged	
35 Pentane	2.78321	3.02714	0.010	-8.76414	30.00000	Averaged	
38 Ethyl Ether	0.46955	0.34963	0.010	25.53970	30.00000	Averaged	
39 Ethanol	0.24792	0.26726	0.010	-7.79805	30.00000	Averaged	
42 Acrolein	0.43020	0.41347	0.010	3.88856	30.00000	Averaged	
43 Freon 113	1.77031	1.77626	0.010	-0.33645	30.00000	Averaged	
44 1,1-Dichloroethene	1.05757	0.87050	0.010	17.68865	30.00000	Averaged	
47 Acetone	0.65540	0.63724	0.010	2.77046	30.00000	Averaged	
48 Carbon Disulfide	2.78620	2.25786	0.010	18.96293	30.00000	Averaged	
49 Iodomethane	1.85215	1.86671	0.010	-0.78619	30.00000	Averaged	
52 2-Propanol	2.64148	2.98584	0.010	-13.03679	30.00000	Averaged	
54 3-Chloropropene	0.46546	0.34826	0.010	25.17992	30.00000	Averaged	
57 Acetonitrile	1.23114	1.47718	0.010	-19.98502	30.00000	Averaged	
59 Methylene Chloride	1.70236	2.19626	0.010	-29.01266	30.00000	Averaged	
62 tert-Butyl alcohol	3.08038	2.86981	0.010	6.83569	30.00000	Averaged	
63 Methyl tert-butyl ether	3.07018	2.60209	0.010	15.24631	30.00000	Averaged	

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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msdp.i Injection Date: 02-SEP-2021 09:55
Lab File ID: p090202.d Init. Cal. Date(s): 19-MAY-2021 20-MAY-2021
Analysis Type: AIR Init. Cal. Times: 14:02 00:05
Lab Sample ID: CCV Quant Type: ISTD
Method: /chem/msdp.i/02SEP21.b/p21q0519a.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
64 trans-1,2-Dichloroethene	0.70664	0.63279	0.010	10.45140	30.00000	Averaged	
66 Acrylonitrile	0.98368	1.10113	0.010	-11.93961	30.00000	Averaged	
67 Hexane	2.46279	2.35429	0.010	4.40563	30.00000	Averaged	
71 1,1-Dichloroethane	2.11721	2.10264	0.010	0.68811	30.00000	Averaged	
72 Isopropyl ether	5.72778	6.65988	0.010	-16.27326	30.00000	Averaged	
73 Vinyl Acetate	0.27210	0.22804	0.010	16.19283	30.00000	Averaged	
79 Ethyl-tert-butyl ether	4.95812	4.58429	0.010	7.53984	30.00000	Averaged	
84 2,2-Dichloropropane	1.88008	2.01536	0.010	-7.19518	30.00000	Averaged	
85 cis-1,2-Dichloroethene	0.73332	0.66859	0.010	8.82667	30.00000	Averaged	
86 2-Butanone	0.56506	0.45032	0.010	20.30715	30.00000	Averaged	
87 Ethyl Acetate	0.56205	0.71125	0.010	-26.54639	30.00000	Averaged	
89 Tetrahydrofuran	1.87928	2.24803	0.010	-19.62197	30.00000	Averaged	
92 Chloroform	2.17519	2.29258	0.010	-5.39646	30.00000	Averaged	
94 Cyclohexane	1.57260	1.27956	0.010	18.63391	30.00000	Averaged	
96 1,1,1-Trichloroethane	2.45732	2.74493	0.010	-11.70422	30.00000	Averaged	
97 Carbon Tetrachloride	2.30469	2.86508	0.010	-24.31497	30.00000	Averaged	
99 1,1-Dichloropropene	0.17017	0.16621	0.010	2.33020	30.00000	Averaged	
101 2,2,4-Trimethylpentane	8.56002	8.75601	0.010	-2.28955	30.00000	Averaged	
102 Benzene	0.82499	0.77064	0.010	6.58823	30.00000	Averaged	
105 tert-Amyl methyl ether	0.23262	0.22818	0.010	1.91227	30.00000	Averaged	
106 1,2-Dichloroethane	0.42928	0.58640	0.010	-36.60191	30.00000	Averaged	<-
107 Heptane	0.32683	0.28559	0.010	12.61792	30.00000	Averaged	
110 n-Butanol	0.29994	0.32555	0.010	-8.53929	30.00000	Averaged	
111 Trichloroethene	0.40032	0.42181	0.010	-5.36759	30.00000	Averaged	
114 1,2-Dichloropropane	0.42295	0.42229	0.010	0.15539	30.00000	Averaged	
116 Methyl Methacrylate	0.34351	0.31266	0.010	8.97922	30.00000	Averaged	
117 1,4-Dioxane	0.22478	0.21267	0.010	5.38408	30.00000	Averaged	
118 Dibromomethane	0.37098	0.44375	0.010	-19.61521	30.00000	Averaged	
122 Bromodichloromethane	0.62070	0.73240	0.010	-17.99616	30.00000	Averaged	
126 cis-1,3-Dichloropropene	0.52438	0.50270	0.010	4.13499	30.00000	Averaged	
127 Methylcyclohexane	0.57930	0.53090	0.010	8.35419	30.00000	Averaged	
131 4-Methyl-2-pentanone	0.42950	0.45396	0.010	-5.69376	30.00000	Averaged	
137 Toluene	1.13821	1.14017	0.010	-0.17239	30.00000	Averaged	
136 Octane	0.48532	0.54206	0.010	-11.69156	30.00000	Averaged	
139 trans-1,3-Dichloropropene	0.49197	0.52348	0.010	-6.40368	30.00000	Averaged	

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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msdp.i Injection Date: 02-SEP-2021 09:55
Lab File ID: p090202.d Init. Cal. Date(s): 19-MAY-2021 20-MAY-2021
Analysis Type: AIR Init. Cal. Times: 14:02 00:05
Lab Sample ID: CCV Quant Type: ISTD
Method: /chem/msdp.i/02SEP21.b/p21q0519a.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
141 1,1,2-Trichloroethane	0.40664	0.43531	0.010	-7.04920	30.00000	Averaged	
142 Tetrachloroethene	0.56977	0.64670	0.010	-13.50100	30.00000	Averaged	
143 2-Hexanone	0.58097	0.64295	0.010	-10.66834	30.00000	Averaged	
144 1,3-Dichloropropane	0.54052	0.55492	0.010	-2.66376	30.00000	Averaged	
146 Dibromochloromethane	0.75978	0.92328	0.010	-21.51943	30.00000	Averaged	
148 1,2-Dibromoethane (EDB)	0.65220	0.71744	0.010	-10.00447	30.00000	Averaged	
151 1-Bromo-2-Chloroethane	0.77603	0.80131	0.010	-3.25696	30.00000	Averaged	
154 Chlorobenzene	0.99271	1.03537	0.010	-4.29718	30.00000	Averaged	
155 Ethyl Benzene	0.51909	0.52222	0.010	-0.60274	30.00000	Averaged	
156 Nonane	1.33556	1.80872	0.010	-35.42775	30.00000	Averaged	<-
158 m,p-Xylene	0.65013	0.65409	0.010	-0.60888	30.00000	Averaged	
164 o-Xylene	0.62290	0.61668	0.010	0.99863	30.00000	Averaged	
165 Styrene	1.06528	1.05196	0.010	1.25006	30.00000	Averaged	
167 Bromoform	0.74891	0.90573	0.010	-20.93943	30.00000	Averaged	
168 Cumene	1.95673	2.00148	0.010	-2.28689	30.00000	Averaged	
169 Cyclohexanone	0.69978	0.82529	0.010	-17.93492	30.00000	Averaged	
175 1,1,2,2-Tetrachloroethane	0.95505	0.99097	0.010	-3.76086	30.00000	Averaged	
177 Bromobenzene	0.59512	0.68886	0.010	-15.75205	30.00000	Averaged	
178 Propylbenzene	0.58019	0.63179	0.010	-8.89383	30.00000	Averaged	
179 1,2,3-Trichloropropane	0.30440	0.34803	0.010	-14.33542	30.00000	Averaged	
181 trans-1,4-Dichloro-2-butene	0.19955	0.26502	0.010	-32.80942	30.00000	Averaged	<-
182 Decane	1.52203	1.68892	0.010	-10.96470	30.00000	Averaged	
183 4-Ethyltoluene	0.63096	0.70523	0.010	-11.77069	30.00000	Averaged	
184 2-Chlorotoluene	0.49401	0.56705	0.010	-14.78496	30.00000	Averaged	
185 1,3,5-Trimethylbenzene	0.86871	0.97361	0.010	-12.07531	30.00000	Averaged	
188 alpha Methyl Styrene	0.86300	0.86145	0.010	0.17876	30.00000	Averaged	
189 tert-Butylbenzene	1.62480	1.89999	0.010	-16.93676	30.00000	Averaged	
190 1,2,4-Trimethylbenzene	1.63968	1.80130	0.010	-9.85659	30.00000	Averaged	
192 sec-Butylbenzene	0.50500	0.58678	0.010	-16.19461	30.00000	Averaged	
194 p-Cymene	2.23203	2.54047	0.010	-13.81887	30.00000	Averaged	
195 1,3-Dichlorobenzene	1.12231	1.35318	0.010	-20.57090	30.00000	Averaged	
196 1,4-Dichlorobenzene	1.13414	1.34299	0.010	-18.41456	30.00000	Averaged	
199 alpha-Chlorotoluene	1.55742	1.68794	0.010	-8.38087	30.00000	Averaged	
201 Undecane	1.75810	2.08333	0.010	-18.49929	30.00000	Averaged	
202 Butylbenzene	0.56690	0.64570	0.010	-13.90152	30.00000	Averaged	

US32TAR1

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msdp.i Injection Date: 02-SEP-2021 09:55
Lab File ID: p090202.d Init. Cal. Date(s): 19-MAY-2021 20-MAY-2021
Analysis Type: AIR Init. Cal. Times: 14:02 00:05
Lab Sample ID: CCV Quant Type: ISTD
Method: /chem/msdp.i/02SEP21.b/p21q0519a.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
204 1,2-Dichlorobenzene	1.10047	1.29219	0.010	-17.42087	30.00000	Averaged
206 1,2-Dibromo-3-chloropropane	0.66653	0.75655	0.010	-13.50652	30.00000	Averaged
207 Dodecane	1.39351	1.33688	0.010	4.06413	30.00000	Averaged
213 1,2,4-Trichlorobenzene	0.81307	0.82542	0.010	-1.51861	30.00000	Averaged
215 Hexachlorobutadiene	0.57222	0.64598	0.010	-12.89095	30.00000	Averaged
216 Naphthalene	2.07796	1.63365	0.010	21.38204	30.00000	Averaged
222 1,2,3-Trichlorobenzene	0.71877	0.69814	0.010	2.87006	30.00000	Averaged

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p090202.d
Lab Smp Id: CCV
Analysis Type: VOA
Quant Type: ISTD
Operator: LD
Method File: /chem/msdp.i/02SEP21.b/p21q0519a.m
Misc Info: 50ppbv (200ppbv)

Calibration Date: 02-SEP-2021
Calibration Time: 11:41
Client Smp ID: CCV
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	132824	79694	185954	111368	-16.15
108 1,4-Difluorobenze	469419	281651	657187	392899	-16.30
153 Chlorobenzene-d5	454122	272473	635771	382253	-15.83

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.78	5.45	6.11	5.78	-0.00
108 1,4-Difluorobenze	6.67	6.34	7.00	6.66	-0.11
153 Chlorobenzene-d5	9.46	9.13	9.79	9.46	-0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msdp.i/02SEP21.b/p090202.d

Page 1

Date : 02-SEP-2021 09:55

Client ID: CCV

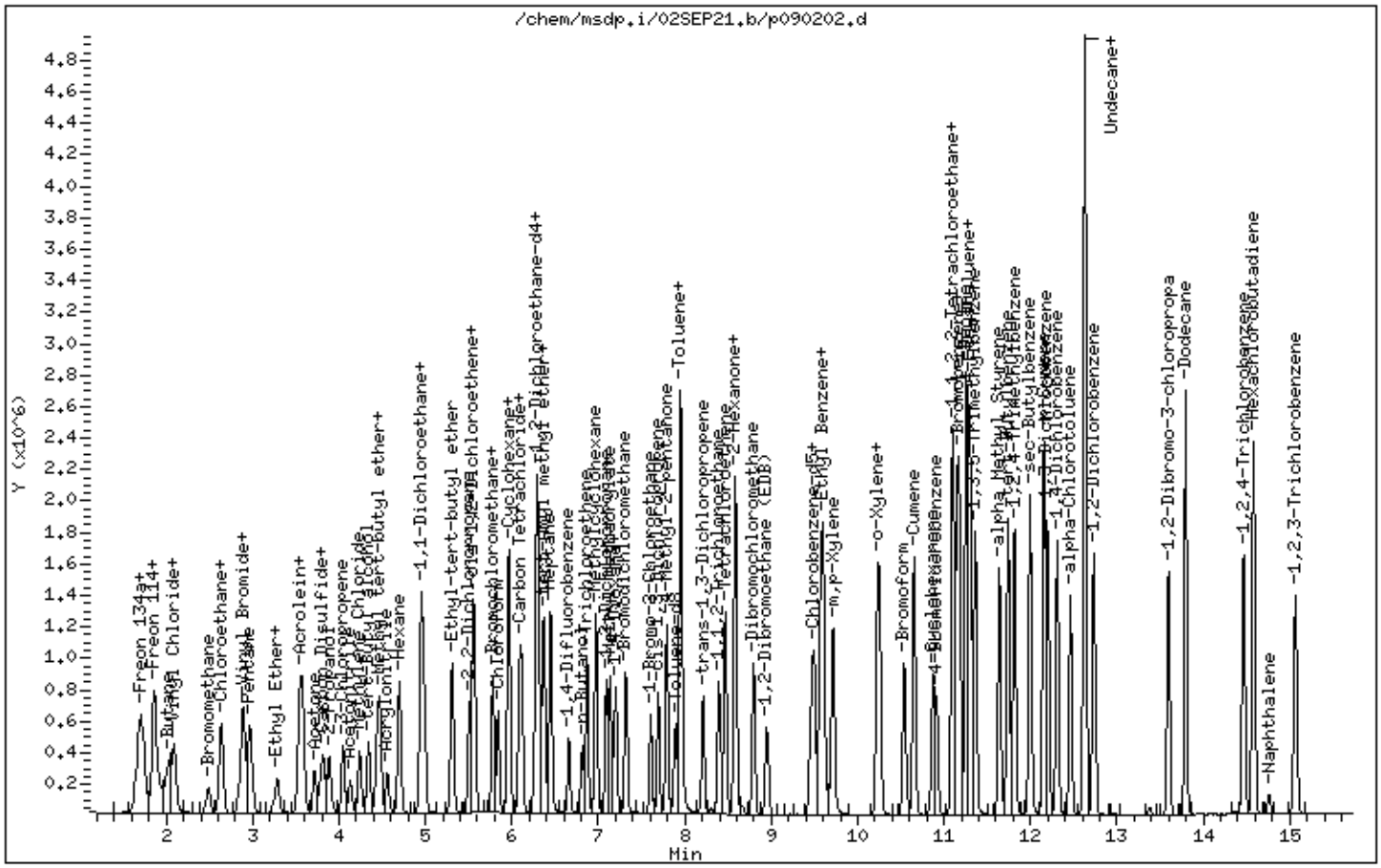
Instrument: msdp.i

Sample Info: 50mL 3018-2192

Operator: LD

Column phase: RTX-624

Column diameter: 0.25



eurofins | Air Toxics

Client ID:	LCS		
Lab ID:	2108676A-04A	**Date/Time Analyzed:**	9/2/21 10:23 AM
Date/Time Collected:	NA - Not Applicable	**Dilution Factor:**	1.00
Media:	NA - Not Applicable	**Instrument/Filename:**	msdp.i / p090203

Compound	CAS#	%Recovery
1,1,1-Trichloroethane	71-55-6	112
1,1,2,2-Tetrachloroethane	79-34-5	100
1,1,2-Trichloroethane	79-00-5	105
1,1-Dichloroethane	75-34-3	101
1,1-Dichloroethene	75-35-4	91
1,2,4-Trichlorobenzene	120-82-1	128
1,2,4-Trimethylbenzene	95-63-6	110
1,2-Dibromoethane (EDB)	106-93-4	108
1,2-Dichlorobenzene	95-50-1	115
1,2-Dichloroethane	107-06-2	135 Q
1,2-Dichloropropane	78-87-5	99
1,3,5-Trimethylbenzene	108-67-8	109
1,3-Butadiene	106-99-0	117
1,3-Dichlorobenzene	541-73-1	118
1,4-Dichlorobenzene	106-46-7	118
1,4-Dioxane	123-91-1	93
2,2,4-Trimethylpentane	540-84-1	101
2-Butanone (Methyl Ethyl Ketone)	78-93-3	83
2-Hexanone	591-78-6	110
2-Propanol	67-63-0	119
3-Chloropropene	107-05-1	83
4-Ethyltoluene	622-96-8	109
4-Methyl-2-pentanone	108-10-1	105
Acetone	67-64-1	100

* % Recovery is calculated using unrounded analytical results.

eurofins | Air Toxics

Client ID:	LCS		
Lab ID:	2108676A-04A	**Date/Time Analyzed:**	9/2/21 10:23 AM
Date/Time Collected:	NA - Not Applicable	**Dilution Factor:**	1.00
Media:	NA - Not Applicable	**Instrument/Filename:**	msdp.i / p090203

Compound	CAS#	%Recovery
alpha-Chlorotoluene	100-44-7	109
Benzene	71-43-2	95
Bromodichloromethane	75-27-4	117
Bromoform	75-25-2	120
Bromomethane	74-83-9	89
Carbon Disulfide	75-15-0	84
Carbon Tetrachloride	56-23-5	124
Chlorobenzene	108-90-7	102
Chloroethane	75-00-3	85
Chloroform	67-66-3	108
Chloromethane	74-87-3	132 Q
cis-1,2-Dichloroethene	156-59-2	93
cis-1,3-Dichloropropene	10061-01-5	96
Cumene	98-82-8	99
Cyclohexane	110-82-7	84
Dibromochloromethane	124-48-1	120
Ethanol	64-17-5	98
Ethyl Benzene	100-41-4	100
Freon 11	75-69-4	123
Freon 113	76-13-1	101
Freon 114	76-14-2	110
Freon 12	75-71-8	119
Heptane	142-82-5	86
Hexachlorobutadiene	87-68-3	140 Q

* % Recovery is calculated using unrounded analytical results.

Client ID:	LCS		
Lab ID:	2108676A-04A	**Date/Time Analyzed:**	9/2/21 10:23 AM
Date/Time Collected:	NA - Not Applicable	**Dilution Factor:**	1.00
Media:	NA - Not Applicable	**Instrument/Filename:**	msdp.i / p090203

Compound	CAS#	%Recovery
Hexane	110-54-3	98
m,p-Xylene	108-38-3	101
Methyl tert-butyl ether	1634-04-4	88
Methylene Chloride	75-09-2	128
Naphthalene	91-20-3	110
o-Xylene	95-47-6	97
Propylbenzene	103-65-1	107
Propylene	115-07-1	115
Styrene	100-42-5	97
Tetrachloroethene	127-18-4	112
Tetrahydrofuran	109-99-9	121
Toluene	108-88-3	97
trans-1,2-Dichloroethene	156-60-5	89
trans-1,3-Dichloropropene	10061-02-6	106
Trichloroethene	79-01-6	106
Vinyl Acetate	108-05-4	92
Vinyl Chloride	75-01-4	95

Q = Exceeds Quality Control limits.
D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	122
4-Bromofluorobenzene	460-00-4	70-130	112
Toluene-d8	2037-26-5	70-130	101

* % Recovery is calculated using unrounded analytical results.

US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/02SEP21.b/p090203.d
Lab Smp Id: LCS Client Smp ID: LCS
Inj Date : 02-SEP-2021 10:23
Operator : LD Inst ID: msdp.i
Smp Info : 50mL 3018-2173
Misc Info : 50ppbv (200ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/02SEP21.b/p21q0519a.m
Meth Date : 02-Sep-2021 12:01 lk8g Quant Type: ISTD
Cal Date : 19-MAY-2021 19:45 Cal File: p051915.d
Als bottle: 14 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT20LCS_new.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE		(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 90 Bromochloromethane							CAS #: 74-97-5	
5.778	5.778 (1.000)	130	115366	25.0000			80.00- 120.00	100.00
5.778	5.778 (1.000)	128	92109				48.23- 108.23	79.84
5.778	5.778 (1.000)	49	272404				150.57- 210.57	236.12
* 108 1,4-Difluorobenzene							CAS #: 540-36-3	
6.666	6.659 (1.000)	114	419990	25.0000			80.00- 120.00	100.00
6.666	6.659 (1.000)	88	60943				0.00- 45.71	14.51
* 153 Chlorobenzene-d5							CAS #: 3114-55-4	
9.460	9.460 (1.000)	117	411816	25.0000			80.00- 120.00	100.00
9.460	9.460 (1.000)	82	212362				23.78- 83.78	51.57
$ 104 1,2-Dichloroethane-d4							CAS #: 17060-07-0	
6.315	6.308 (1.093)	65	193537	30.3980	30.398		80.00- 120.00	100.00
6.308	6.308 (1.092)	67	102508				27.21- 87.21	52.97
$ 134 Toluene-d8							CAS #: 2037-26-5	
7.891	7.891 (1.184)	98	460117	25.2290	25.229		80.00- 120.00	100.00
7.891	7.891 (1.184)	70	44947				0.00- 40.44	9.77

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
$ 134 Toluene-d8 (continued)							
7.891	7.891 (1.184)	100	290991			34.95- 94.95	63.24
$ 170 4-Bromofluorobenzene					CAS #: 460-00-4		
10.921	10.921 (1.154)	174	295037	27.8996	27.900	80.00- 120.00	100.00
10.914	10.914 (1.154)	95	340632			95.92- 155.92	115.45
10.914	10.921 (1.154)	176	283540			66.89- 126.89	96.10
4 Freon 134a					CAS #: 811-97-2		
1.647	1.646 (0.285)	83	247159	67.6892	67.689	80.00- 120.00	100.00(R)
1.647	1.646 (0.285)	69	161929			59.44- 119.44	65.52
1.745	1.744 (0.302)	51	1086754			419.06- 479.06	439.70
5 Propylene					CAS #: 115-07-1		
1.675	1.674 (0.290)	41	302824	57.3612	57.361	80.00- 120.00	100.00
1.675	1.674 (0.290)	42	202817			35.28- 95.28	66.98
1.675	1.674 (0.290)	39	214580			38.35- 98.35	70.86
7 1,1-Difluoroethane					CAS #: 75-37-6		
1.703	1.702 (0.295)	65	122336	46.7827	46.783	80.00- 120.00	100.00
1.745	1.744 (0.302)	51	1086754			597.63- 657.63	888.33
1.703	1.702 (0.295)	47	125751			33.72- 93.72	102.79
8 Freon 12					CAS #: 75-71-8		
1.717	1.716 (0.297)	85	617756	59.7031	59.703	80.00- 120.00	100.00
1.717	1.716 (0.297)	87	197256			2.37- 62.37	31.93
9 Chlorodifluoromethane					CAS #: 75-45-6		
1.759	1.744 (0.304)	67	67257	65.8045	65.804	80.00- 120.00	100.00(R)
1.745	1.744 (0.302)	51	1086754			1501.01-1561.01	1615.80
10 Freon 114					CAS #: 76-14-2		
1.856	1.856 (0.321)	135	558505	54.9879	54.988	80.00- 120.00	100.00
1.856	1.856 (0.321)	137	173033			2.30- 62.30	30.98
12 Isobutane					CAS #: 75-28-5		
1.870	1.870 (0.324)	43	668948	57.2349	57.235	80.00- 120.00	100.00
1.870	1.870 (0.324)	42	226000			2.44- 62.44	33.78
1.870	1.870 (0.324)	58	18464			0.00- 33.36	2.76
15 Chloromethane					CAS #: 74-87-3		
1.940	1.940 (0.336)	50	395476	65.8815	65.882	80.00- 120.00	100.00(R)
1.940	1.940 (0.336)	52	96576			0.00- 56.26	24.42
18 Butane					CAS #: 106-97-8		
2.032	2.032 (0.352)	58	73181	52.6279	52.628	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
18 Butane (continued)							
2.032	2.032 (0.352)	43	655805			823.29- 883.29	896.14
19 Vinyl Chloride					CAS #: 75-01-4		
2.075	2.067 (0.359)	62	343834	47.6123	47.612	80.00- 120.00	100.00
2.075	2.075 (0.359)	64	90726			0.00- 59.69	26.39
20 1,3-Butadiene					CAS #: 106-99-0		
2.096	2.096 (0.363)	54	339383	58.4315	58.432	80.00- 120.00	100.00
2.096	2.089 (0.363)	39	318862			52.37- 112.37	93.95
24 Bromomethane					CAS #: 74-83-9		
2.483	2.483 (0.430)	94	207531	44.6934	44.693	80.00- 120.00	100.00
2.483	2.483 (0.430)	96	195729			64.07- 124.07	94.31
30 Chloroethane					CAS #: 75-00-3		
2.612	2.612 (0.452)	64	110836	42.6819	42.682	80.00- 120.00	100.00
2.612	2.612 (0.452)	66	32219			0.04- 60.04	29.07
2.612	2.612 (0.452)	49	56811			4.54- 64.54	51.26
31 Isopentane					CAS #: 78-78-4		
2.641	2.633 (0.457)	43	447821	56.6743	56.674	80.00- 120.00	100.00
2.641	2.641 (0.457)	57	244467			34.12- 94.12	54.59
32 Vinyl Bromide					CAS #: 593-60-2		
2.848	2.841 (0.493)	106	184643	43.0204	43.020	80.00- 120.00	100.00
2.848	2.841 (0.493)	108	188067			69.27- 129.27	101.85
33 Freon 11					CAS #: 75-69-4		
2.891	2.891 (0.500)	101	674107	61.3074	61.307	80.00- 120.00	100.00
2.891	2.891 (0.500)	103	431999			34.72- 94.72	64.08
34 Dichlorofluoromethane					CAS #: 75-43-4		
2.906	2.898 (0.503)	67	458688	48.4002	48.400	80.00- 120.00	100.00
2.906	2.898 (0.503)	69	135844			0.84- 60.84	29.62
35 Pentane					CAS #: 109-66-0		
2.970	2.970 (0.514)	43	695998	54.1904	54.190	80.00- 120.00	100.00
2.970	2.970 (0.514)	57	85786			0.00- 44.98	12.33
2.970	2.970 (0.514)	72	34440			0.00- 37.39	4.95
38 Ethyl Ether					CAS #: 60-29-7		
3.285	3.285 (0.569)	74	90120	41.5908	41.591	80.00- 120.00	100.00
3.285	3.285 (0.569)	59	205739			163.46- 223.46	228.29
3.285	3.285 (0.569)	45	359300			250.40- 310.40	398.69

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
39 Ethanol					CAS #: 64-17-5		
3.242	3.242 (0.561)	46	64933	56.7562	56.756	80.00- 120.00	100.00
3.285	3.285 (0.569)	45	356949			511.19- 571.19	549.71
42 Acrolein					CAS #: 107-02-8		
3.536	3.536 (0.612)	55	93957	47.3280	47.328	80.00- 120.00	100.00
3.536	3.536 (0.612)	56	126677			111.10- 171.10	134.82
43 Freon 113					CAS #: 76-13-1		
3.558	3.550 (0.616)	151	413797	50.6524	50.652	80.00- 120.00	100.00
3.558	3.550 (0.616)	153	267490			33.56- 93.56	64.64
3.550	3.550 (0.614)	101	484464			89.21- 149.21	117.08
44 1,1-Dichloroethene					CAS #: 75-35-4		
3.586	3.579 (0.621)	96	222822	45.6575	45.658	80.00- 120.00	100.00
3.586	3.579 (0.621)	98	138057			34.02- 94.02	61.96
3.586	3.579 (0.621)	61	517235			168.77- 228.77	232.13
47 Acetone					CAS #: 67-64-1		
3.715	3.715 (0.643)	58	151836	50.2030	50.203	80.00- 120.00	100.00
3.715	3.715 (0.643)	43	624855			302.95- 362.95	411.53
48 Carbon Disulfide					CAS #: 75-15-0		
3.830	3.822 (0.663)	76	539943	41.9949	41.995	80.00- 120.00	100.00
49 Iodomethane					CAS #: 74-88-4		
3.794	3.794 (0.657)	142	483147	56.5279	56.528	80.00- 120.00	100.00
3.794	3.794 (0.657)	127	255757			12.22- 72.22	52.94
52 2-Propanol					CAS #: 67-63-0		
3.887	3.887 (0.673)	45	727102	59.6499	59.650	80.00- 120.00	100.00
3.887	3.887 (0.673)	43	146911			0.00- 47.19	20.21
54 3-Chloropropene					CAS #: 107-05-1		
4.052	4.052 (0.701)	76	88710	41.2998	41.300	80.00- 120.00	100.00
4.052	4.045 (0.701)	41	515221			396.19- 456.19	580.79
57 Acetonitrile					CAS #: 75-05-8		
4.123	4.123 (0.714)	41	330773	58.2215	58.221	80.00- 120.00	100.00
4.123	4.123 (0.714)	40	175544			20.95- 80.95	53.07
4.123	4.123 (0.714)	38	35993			0.00- 41.17	10.88
59 Methylene Chloride					CAS #: 75-09-2		
4.238	4.238 (0.733)	49	504039	64.1613	64.161	80.00- 120.00	100.00
4.238	4.238 (0.733)	84	175687			22.03- 82.03	34.86
4.238	4.238 (0.733)	51	151674			0.18- 60.18	30.09

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
62 tert-Butyl alcohol					CAS #: 75-65-0		
4.338	4.338 (0.751)	59	686020	48.2607	48.261	80.00- 120.00	100.00
4.338	4.338 (0.751)	41	182167			0.00- 51.11	26.55
4.338	4.338 (0.751)	57	78748			0.00- 40.49	11.48
63 Methyl tert-butyl ether					CAS #: 1634-04-4		
4.446	4.446 (0.769)	73	620452	43.7930	43.793	80.00- 120.00	100.00
4.446	4.446 (0.769)	57	234846			3.10- 63.10	37.85
4.446	4.446 (0.769)	41	279964			1.28- 61.28	45.12
64 trans-1,2-Dichloroethene					CAS #: 156-60-5		
4.482	4.481 (0.776)	98	145414	44.5933	44.593	80.00- 120.00	100.00
4.482	4.474 (0.776)	61	468856			255.84- 315.84	322.43
4.482	4.474 (0.776)	96	229948			127.59- 187.59	158.13
66 Acrylonitrile					CAS #: 107-13-1		
4.560	4.560 (0.789)	52	263545	58.0577	58.058	80.00- 120.00	100.00
4.560	4.560 (0.789)	53	306568			88.05- 148.05	116.32
67 Hexane					CAS #: 110-54-3		
4.697	4.696 (0.813)	57	559226	49.2063	49.206	80.00- 120.00	100.00
4.697	4.696 (0.813)	43	448412			37.52- 97.52	80.18
4.697	4.696 (0.813)	86	53069			0.00- 41.48	9.49
71 1,1-Dichloroethane					CAS #: 75-34-3		
4.969	4.961 (0.860)	63	495416	50.7069	50.707	80.00- 120.00	100.00
4.969	4.961 (0.860)	65	141215			0.00- 59.70	28.50
72 Isopropyl ether					CAS #: 108-20-3		
4.954	4.947 (0.857)	45	1540644	58.2876	58.288	80.00- 120.00	100.00
4.954	4.954 (0.857)	87	199063			0.00- 48.18	12.92
4.954	4.947 (0.857)	59	129498			0.00- 40.15	8.41
73 Vinyl Acetate					CAS #: 108-05-4		
4.997	4.997 (0.865)	86	57458	45.7607	45.761	80.00- 120.00	100.00
4.997	4.990 (0.865)	43	1406912			2432.48-2492.48	2448.56
79 Ethyl-tert-butyl ether					CAS #: 637-92-3		
5.305	5.305 (0.918)	59	1095377	47.8748	47.875	80.00- 120.00	100.00
5.305	5.305 (0.918)	87	306919			1.00- 61.00	28.02
5.305	5.305 (0.918)	41	276780			0.00- 48.73	25.27
84 2,2-Dichloropropane					CAS #: 594-20-7		
5.513	5.506 (0.954)	77	460309	53.0558	53.056	80.00- 120.00	100.00
5.513	5.506 (0.954)	79	149754			2.28- 62.28	32.53
5.513	5.513 (0.954)	97	101927			0.00- 53.93	22.14

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
85 cis-1,2-Dichloroethene					CAS #: 156-59-2		
5.549	5.549 (0.960)	98	157594	46.5700	46.570	80.00- 120.00	100.00
5.549	5.549 (0.960)	96	250136			125.75- 185.75	158.72
5.549	5.549 (0.960)	61	631412			332.40- 392.40	400.66
86 2-Butanone					CAS #: 78-93-3		
5.556	5.556 (0.962)	72	107801	41.3415	41.342	80.00- 120.00	100.00
5.563	5.563 (0.963)	43	2052764			1214.50-1274.50	1904.21
5.556	5.556 (0.962)	57	61475			14.68- 74.68	57.03
87 Ethyl Acetate					CAS #: 141-78-6		
5.570	5.570 (0.964)	45	161848	62.4015	62.401	80.00- 120.00	100.00
5.549	5.549 (0.960)	61	631412			452.04- 512.04	390.12
5.578	5.570 (0.965)	70	54349			22.77- 82.77	33.58
89 Tetrahydrofuran					CAS #: 109-99-9		
5.778	5.771 (1.000)	42	525139	60.5540	60.554	80.00- 120.00	100.00
5.778	5.778 (1.000)	71	91497			0.00- 55.82	17.42
5.778	5.771 (1.000)	72	94271			0.00- 57.59	17.95
92 Chloroform					CAS #: 67-66-3		
5.843	5.835 (1.011)	83	539908	53.7876	53.788	80.00- 120.00	100.00
5.843	5.835 (1.011)	85	347283			34.70- 94.70	64.32
94 Cyclohexane					CAS #: 110-82-7		
5.964	5.957 (1.032)	84	305682	42.1224	42.122	80.00- 120.00	100.00
5.957	5.957 (1.031)	56	628589			142.57- 202.57	205.63
5.957	5.957 (1.031)	41	403378			62.09- 122.09	131.96
96 1,1,1-Trichloroethane					CAS #: 71-55-6		
5.972	5.971 (1.033)	97	638163	56.2770	56.277	80.00- 120.00	100.00
5.972	5.971 (1.033)	99	401233			34.02- 94.02	62.87
97 Carbon Tetrachloride					CAS #: 56-23-5		
6.093	6.086 (1.055)	119	661239	62.1737	62.174	80.00- 120.00	100.00
6.093	6.086 (1.055)	117	654609			70.64- 130.64	99.00
99 1,1-Dichloropropene					CAS #: 563-58-6		
6.122	6.115 (0.918)	110	142872	49.9754	49.975	80.00- 120.00	100.00
6.122	6.115 (0.918)	75	341345			226.85- 286.85	238.92
101 2,2,4-Trimethylpentane					CAS #: 540-84-1		
6.280	6.279 (1.087)	57	1997221	50.5606	50.560	80.00- 120.00	100.00
6.280	6.279 (1.087)	56	693664			2.24- 62.24	34.73
6.280	6.279 (1.087)	41	619256			0.00- 54.39	31.01

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
102 Benzene					CAS #: 71-43-2		
6.301	6.301 (0.945)	78	657597	47.4474	47.447	80.00- 120.00	100.00
6.301	6.301 (0.945)	77	153446			0.00- 52.90	23.33
105 tert-Amyl methyl ether					CAS #: 994-05-8		
6.358	6.358 (0.954)	87	191268	48.9426	48.943	80.00- 120.00	100.00
6.358	6.358 (0.954)	73	720136			372.79- 432.79	376.51
6.358	6.358 (0.954)	55	336826			112.09- 172.09	176.10
106 1,2-Dichloroethane					CAS #: 107-06-2		
6.380	6.380 (0.957)	62	486935	67.5206	67.521	80.00- 120.00	100.00(R)
6.380	6.380 (0.957)	64	146921			0.79- 60.79	30.17
107 Heptane					CAS #: 142-82-5		
6.451	6.444 (0.968)	71	237383	43.2348	43.235	80.00- 120.00	100.00
6.444	6.444 (0.967)	43	923022			226.53- 286.53	388.83
6.444	6.444 (0.967)	57	400508			100.85- 160.85	168.72
110 n-Butanol					CAS #: 71-36-3		
6.810	6.809 (1.021)	56	299193	59.3769	59.377	80.00- 120.00	100.00
6.810	6.809 (1.021)	41	253379			40.99- 100.99	84.69
6.810	6.809 (1.021)	43	203789			27.38- 87.38	68.11
111 Trichloroethene					CAS #: 79-01-6		
6.867	6.867 (1.030)	95	358292	53.2760	53.276	80.00- 120.00	100.00
6.867	6.867 (1.030)	130	398942			76.29- 136.29	111.35
6.867	6.867 (1.030)	97	236809			33.63- 93.63	66.09
114 1,2-Dichloropropane					CAS #: 78-87-5		
7.096	7.096 (1.064)	63	350908	49.3863	49.386	80.00- 120.00	100.00
7.096	7.096 (1.064)	62	258672			41.07- 101.07	73.72
7.096	7.096 (1.064)	41	289872			22.53- 82.53	82.61
116 Methyl Methacrylate					CAS #: 80-62-6		
7.139	7.139 (0.755)	69	254842	45.0375	45.037	80.00- 120.00	100.00
7.139	7.139 (0.755)	41	717515			179.84- 239.84	281.55
7.139	7.139 (0.755)	100	106817			9.59- 69.59	41.92
117 1,4-Dioxane					CAS #: 123-91-1		
7.175	7.175 (1.076)	88	175051	46.3572	46.357	80.00- 120.00	100.00
7.175	7.175 (1.076)	58	200071			68.28- 128.28	114.29
7.175	7.175 (1.076)	57	74442			2.68- 62.68	42.53
118 Dibromomethane					CAS #: 74-95-3		
7.211	7.211 (0.762)	174	356820	58.3892	58.389	80.00- 120.00	100.00
7.204	7.203 (0.761)	93	320671			60.09- 120.09	89.87

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
118 Dibromomethane (continued)							
7.204	7.203 (0.761)	95	281247			48.38- 108.38	78.82
122 Bromodichloromethane					CAS #: 75-27-4		
7.318	7.318 (1.098)	83	611134	58.6081	58.608	80.00- 120.00	100.00
7.318	7.318 (1.098)	85	394963			35.24- 95.24	64.63
126 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.698	7.698 (1.155)	75	424956	48.2387	48.239	80.00- 120.00	100.00
7.698	7.698 (1.155)	77	135916			2.42- 62.42	31.98
7.691	7.690 (1.154)	39	391846			37.16- 97.16	92.21
127 Methylcyclohexane					CAS #: 108-87-2		
6.974	6.974 (1.046)	83	439299	45.1399	45.140	80.00- 120.00	100.00
6.974	6.974 (1.046)	98	218760			15.78- 75.78	49.80
6.974	6.974 (1.046)	55	633788			84.64- 144.64	144.27
131 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.798	7.798 (1.170)	58	380239	52.6978	52.698	80.00- 120.00	100.00
7.798	7.791 (1.170)	43	1279277			242.35- 302.35	336.44
7.798	7.798 (1.170)	85	108747			3.24- 63.24	28.60
137 Toluene					CAS #: 108-88-3		
7.949	7.948 (1.192)	91	927493	48.5053	48.505	80.00- 120.00	100.00
7.949	7.948 (1.192)	92	538643			28.38- 88.38	58.08
136 Octane					CAS #: 111-65-9		
7.949	7.948 (1.192)	57	435867	53.4601	53.460	80.00- 120.00	100.00
7.949	7.948 (1.192)	85	311834			56.00- 116.00	71.54
7.949	7.948 (1.192)	43	1358060			228.66- 288.66	311.58
139 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
8.214	8.213 (0.868)	75	430537	53.1258	53.126	80.00- 120.00	100.00
8.214	8.213 (0.868)	77	133726			1.24- 61.24	31.06
8.214	8.213 (0.868)	39	363165			34.11- 94.11	84.35
141 1,1,2-Trichloroethane					CAS #: 79-00-5		
8.400	8.400 (0.888)	97	352132	52.5692	52.569	80.00- 120.00	100.00
8.400	8.400 (0.888)	99	219418			31.96- 91.96	62.31
8.400	8.400 (0.888)	83	283926			52.93- 112.93	80.63
142 Tetrachloroethene					CAS #: 127-18-4		
8.464	8.464 (0.895)	166	525952	56.0380	56.038	80.00- 120.00	100.00
8.464	8.464 (0.895)	129	408078			47.84- 107.84	77.59
8.464	8.464 (0.895)	131	389947			45.29- 105.29	74.14

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
143 2-Hexanone					CAS #: 591-78-6		
8.586	8.586 (0.908)	58	524049	54.7587	54.759	80.00- 120.00	100.00
8.586	8.586 (0.908)	43	1243746			162.87- 222.87	237.33
8.586	8.586 (0.908)	100	70815			0.00- 45.94	13.51
144 1,3-Dichloropropane					CAS #: 142-28-9		
8.579	8.579 (1.287)	76	451863	49.7619	49.762	80.00- 120.00	100.00
8.579	8.579 (1.287)	41	769389			94.99- 154.99	170.27
8.579	8.579 (1.287)	78	147044			2.05- 62.05	32.54
146 Dibromochloromethane					CAS #: 124-48-1		
8.801	8.801 (0.930)	129	748801	59.8294	59.829	80.00- 120.00	100.00
8.801	8.801 (0.930)	127	575759			47.45- 107.45	76.89
148 1,2-Dibromoethane (EDB)					CAS #: 106-93-4		
8.951	8.951 (0.946)	107	581079	54.0871	54.087	80.00- 120.00	100.00
8.951	8.951 (0.946)	109	553198			64.21- 124.21	95.20
151 1-Bromo-2-Chloroethane					CAS #: 107-04-0		
7.605	7.605 (1.141)	63	659136	50.5588	50.559	80.00- 120.00	100.00
7.605	7.605 (1.141)	65	183873			0.00- 59.64	27.90
7.612	7.605 (1.142)	144	70666			0.00- 39.63	10.72
154 Chlorobenzene					CAS #: 108-90-7		
9.496	9.496 (1.004)	112	838366	51.2682	51.268	80.00- 120.00	100.00
9.496	9.496 (1.004)	114	261154			1.74- 61.74	31.15
9.496	9.496 (1.004)	77	425153			25.04- 85.04	50.71
155 Ethyl Benzene					CAS #: 100-41-4		
9.567	9.567 (1.011)	106	428169	50.0737	50.074	80.00- 120.00	100.00
9.567	9.567 (1.011)	91	1272469			273.74- 333.74	297.19
156 Nonane					CAS #: 111-84-2		
9.596	9.596 (1.014)	43	1421045	64.5924	64.592	80.00- 120.00	100.00
9.596	9.596 (1.014)	57	977061			54.16- 114.16	68.76
9.603	9.603 (1.015)	85	221844			0.00- 53.90	15.61
157 1,1,1,2-Tetrachloroethane					CAS #: 630-20-6		
9.596	9.596 (1.014)	131	439442	47.9974	47.997	80.00- 120.00	100.00
9.460	9.460 (1.000)	117	411816			57.42- 117.42	93.71
9.596	9.596 (1.014)	95	163195			5.70- 65.70	37.14
158 m,p-Xylene					CAS #: 108-38-3		
9.718	9.718 (1.027)	106	539613	50.3870	50.387	80.00- 120.00	100.00
9.718	9.718 (1.027)	91	1038350			163.73- 223.73	192.43

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
164 o-Xylene					CAS #: 95-47-6		
10.226	10.226 (1.081)	106	500190	48.7477	48.748	80.00- 120.00	100.00
10.226	10.226 (1.081)	91	998397			177.45- 237.45	199.60
165 Styrene					CAS #: 100-42-5		
10.255	10.255 (1.084)	104	853670	48.6479	48.648	80.00- 120.00	100.00
10.255	10.255 (1.084)	78	414278			17.88- 77.88	48.53
167 Bromoform					CAS #: 75-25-2		
10.542	10.541 (1.114)	173	738815	59.8885	59.888	80.00- 120.00	100.00
10.542	10.541 (1.114)	171	380948			21.25- 81.25	51.56
168 Cumene					CAS #: 98-82-8		
10.649	10.649 (1.126)	105	1602737	49.7242	49.724	80.00- 120.00	100.00
10.649	10.649 (1.126)	120	471036			0.00- 58.52	29.39
10.649	10.649 (1.126)	51	275116			0.00- 43.00	17.17
169 Cyclohexanone					CAS #: 108-94-1		
10.871	10.871 (1.149)	55	699372	60.6712	60.671	80.00- 120.00	100.00
10.871	10.871 (1.149)	98	178667			1.94- 61.94	25.55
10.871	10.871 (1.149)	42	512251			37.89- 97.89	73.24
175 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
11.100	11.100 (1.173)	83	787023	50.0262	50.026	80.00- 120.00	100.00
11.100	11.100 (1.173)	85	505920			35.20- 95.20	64.28
177 Bromobenzene					CAS #: 108-86-1		
11.100	11.100 (1.173)	156	564983	57.6325	57.632	80.00- 120.00	100.00
11.107	11.100 (1.174)	158	545281			67.21- 127.21	96.51
11.172	11.172 (1.181)	77	320413			29.02- 89.02	56.71
178 Propylbenzene					CAS #: 103-65-1		
11.150	11.150 (1.179)	120	512058	53.5776	53.578	80.00- 120.00	100.00
11.150	11.150 (1.179)	91	1944259			366.49- 426.49	379.69
11.150	11.150 (1.179)	105	75693			0.00- 44.85	14.78
179 1,2,3-Trichloropropane					CAS #: 96-18-4		
11.179	11.179 (1.182)	110	276735	55.1899	55.190	80.00- 120.00	100.00
11.179	11.179 (1.182)	75	829628			280.55- 340.55	299.79
11.100	11.100 (1.173)	61	148679			15.49- 75.49	53.73
181 trans-1,4-Dichloro-2-butene					CAS #: 110-57-6		
11.179	11.179 (1.182)	53	307903	93.6695	93.669	80.00- 120.00	100.00(R)
11.172	11.172 (1.181)	89	175816			49.11- 109.11	57.10
11.179	11.179 (1.182)	75	829628			426.44- 486.44	269.44

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
182 Decane					CAS #: 124-18-5		
11.251	11.251 (1.189)	57	1346294	53.6972	53.697	80.00- 120.00	100.00
11.251	11.251 (1.189)	71	301755			0.00- 57.66	22.41
11.258	11.258 (1.190)	142	50620			0.00- 34.09	3.76
183 4-Ethyltoluene					CAS #: 622-96-8		
11.287	11.286 (1.193)	120	568384	54.6860	54.686	80.00- 120.00	100.00
11.287	11.286 (1.193)	105	1708132			284.55- 344.55	300.52
184 2-Chlorotoluene					CAS #: 95-49-8		
11.308	11.308 (1.195)	126	448341	55.0942	55.094	80.00- 120.00	100.00
11.308	11.308 (1.195)	91	1483739			315.17- 375.17	330.94
11.301	11.301 (1.195)	65	230407			21.55- 81.55	51.39
185 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
11.365	11.365 (1.201)	120	777022	54.2995	54.300	80.00- 120.00	100.00
11.365	11.365 (1.201)	105	1477118			164.93- 224.93	190.10
188 alpha Methyl Styrene					CAS #: 98-83-9		
11.645	11.644 (1.231)	118	743420	52.2952	52.295	80.00- 120.00	100.00
11.645	11.644 (1.231)	103	414971			25.30- 85.30	55.82
189 tert-Butylbenzene					CAS #: 98-06-6		
11.738	11.738 (1.241)	119	1501018	56.0817	56.082	80.00- 120.00	100.00
11.738	11.738 (1.241)	134	362510			0.00- 54.25	24.15
11.738	11.738 (1.241)	91	896256			31.27- 91.27	59.71
190 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
11.817	11.816 (1.249)	105	1483827	54.9364	54.936	80.00- 120.00	100.00
11.817	11.816 (1.249)	120	742857			19.05- 79.05	50.06
192 sec-Butylbenzene					CAS #: 135-98-8		
11.996	11.995 (1.268)	134	471660	56.6992	56.699	80.00- 120.00	100.00
11.996	11.995 (1.268)	105	2114887			437.55- 497.55	448.39
11.996	11.995 (1.268)	91	329143			40.76- 100.76	69.78
194 p-Cymene					CAS #: 99-87-6		
12.160	12.160 (1.285)	119	2051600	55.7993	55.799	80.00- 120.00	100.00
12.160	12.160 (1.285)	134	531598			0.00- 55.54	25.91
12.153	12.160 (1.285)	91	438081			0.00- 51.48	21.35
195 1,3-Dichlorobenzene					CAS #: 541-73-1		
12.196	12.196 (1.289)	146	1086555	58.7725	58.772	80.00- 120.00	100.00
12.196	12.196 (1.289)	148	701239			33.21- 93.21	64.54
12.196	12.196 (1.289)	111	434469			11.31- 71.31	39.99

					CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
RT	EXP RT (REL RT)	MASS	RESPONSE					
196 1,4-Dichlorobenzene						CAS #: 106-46-7		
12.311	12.311 (1.301)	146	1098669	58.8079	58.808	80.00- 120.00		100.00
12.311	12.311 (1.301)	148	701340			33.90- 93.90		63.84
12.311	12.311 (1.301)	111	419990			9.45- 69.45		38.23
199 alpha-Chlorotoluene						CAS #: 100-44-7		
12.461	12.461 (1.317)	91	1395720	54.4038	54.404	80.00- 120.00		100.00
12.461	12.461 (1.317)	126	332915			0.00- 53.26		23.85
201 Undecane						CAS #: 1120-21-4		
12.640	12.640 (1.336)	57	1726242	59.6067	59.607	80.00- 120.00		100.00
12.640	12.640 (1.336)	43	1840650			58.12- 118.12		106.63
202 Butylbenzene						CAS #: 104-51-8		
12.626	12.626 (1.335)	134	525067	56.2275	56.227	80.00- 120.00		100.00
12.626	12.626 (1.335)	91	1729890			314.79- 374.79		329.46
12.626	12.626 (1.335)	92	892323			154.29- 214.29		169.94
204 1,2-Dichlorobenzene						CAS #: 95-50-1		
12.733	12.740 (1.346)	146	1044014	57.5921	57.592	80.00- 120.00		100.00
12.733	12.740 (1.346)	148	672627			33.84- 93.84		64.43
12.733	12.733 (1.346)	111	428172			12.73- 72.73		41.01
206 1,2-Dibromo-3-chloropropane						CAS #: 96-12-8		
13.600	13.600 (1.438)	157	632415	57.5998	57.600	80.00- 120.00		100.00
13.593	13.600 (1.437)	75	527555			52.48- 112.48		83.42
13.600	13.600 (1.438)	155	490445			47.41- 107.41		77.55
207 Dodecane						CAS #: 112-40-3		
13.801	13.801 (1.459)	57	1705911	74.3158	74.316	80.00- 120.00		100.00(R)
13.801	13.801 (1.459)	43	1666371			52.87- 112.87		97.68
213 1,2,4-Trichlorobenzene						CAS #: 120-82-1		
14.467	14.467 (1.529)	180	994066	74.2202	74.220	80.00- 120.00		100.00
14.467	14.467 (1.529)	182	963990			65.33- 125.33		96.97
215 Hexachlorobutadiene						CAS #: 87-68-3		
14.582	14.581 (1.541)	225	765020	81.1612	81.161	80.00- 120.00		100.00(R)
14.582	14.581 (1.541)	223	479212			33.17- 93.17		62.64
216 Naphthalene						CAS #: 91-20-3		
14.761	14.768 (1.560)	128	217434	6.35224	6.352	80.00- 120.00		100.00
14.768	14.768 (1.561)	127	28516			0.00- 42.88		13.12
222 1,2,3-Trichlorobenzene						CAS #: 87-61-6		
15.069	15.068 (1.593)	180	921443	77.8241	77.824	80.00- 120.00		100.00(R)

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
222 1,2,3-Trichlorobenzene (continued)							
15.069	15.068 (1.593)	182	871288			65.75- 125.75	94.56
15.061	15.068 (1.592)	145	310686			5.23- 65.23	33.72

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p090203.d
Lab Smp Id: LCS
Analysis Type: VOA
Quant Type: ISTD
Operator: LD
Method File: /chem/msdp.i/02SEP21.b/p21q0519a.m
Misc Info: 50ppbv (200ppbv)

Calibration Date: 02-SEP-2021
Calibration Time: 09:55
Client Smp ID: LCS
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	111368	66821	155915	115366	3.59
108 1,4-Difluorobenze	392899	235739	550059	419990	6.90
153 Chlorobenzene-d5	382253	229352	535154	411816	7.73

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.78	5.45	6.11	5.78	0.00
108 1,4-Difluorobenze	6.66	6.33	6.99	6.67	0.11
153 Chlorobenzene-d5	9.46	9.13	9.79	9.46	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

US32TAR1

RECOVERY REPORT

Client Name: Client SDG: 02SEP21
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: LCS Client Smp ID: LCS
Level: LOW Operator: LD
Data Type: MS DATA SampleType: LCS
SpikeList File: AT20_new.spk Quant Type: ISTD
Sublist File: AT20LCS_new.sub
Method File: /chem/msdp.i/02SEP21.b/p21q0519a.m
Misc Info: 50ppbv (200ppbv)

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
4 Freon 134a	50.000	67.689	135.38*	70-130
5 Propylene	50.000	57.361	114.72	70-130
7 1,1-Difluoroethan	50.000	46.783	93.57	70-130
8 Freon 12	50.000	59.703	119.41	70-130
9 Chlorodifluoromet	50.000	65.804	131.61*	70-130
10 Freon 114	50.000	54.988	109.98	70-130
12 Isobutane	50.000	57.235	114.47	70-130
15 Chloromethane	50.000	65.882	131.76*	70-130
18 Butane	50.000	52.628	105.26	70-130
19 Vinyl Chloride	50.000	47.612	95.22	70-130
20 1,3-Butadiene	50.000	58.432	116.86	70-130
24 Bromomethane	50.000	44.693	89.39	70-130
30 Chloroethane	50.000	42.682	85.36	70-130
31 Isopentane	50.000	56.674	113.35	70-130
32 Vinyl Bromide	50.000	43.020	86.04	70-130
33 Freon 11	50.000	61.307	122.61	70-130
34 Dichlorofluoromet	50.000	48.400	96.80	70-130
35 Pentane	50.000	54.190	108.38	70-130
38 Ethyl Ether	50.000	41.591	83.18	70-130
39 Ethanol	58.000	56.756	97.86	70-130
42 Acrolein	58.000	47.328	81.60	70-130
43 Freon 113	50.000	50.652	101.30	70-130
44 1,1-Dichloroethen	50.000	45.658	91.32	70-130
47 Acetone	50.000	50.203	100.41	70-130
48 Carbon Disulfide	50.000	41.995	83.99	70-130
49 Iodomethane	50.000	56.528	113.06	70-130
52 2-Propanol	50.000	59.650	119.30	70-130
54 3-Chloropropene	50.000	41.300	82.60	70-130
57 Acetonitrile	50.000	58.221	116.44	70-130
59 Methylene Chlorid	50.000	64.161	128.32	70-130
62 tert-Butyl alcoho	50.000	48.261	96.52	70-130
63 Methyl tert-butyl	50.000	43.793	87.59	70-130
64 trans-1,2-Dichlor	50.000	44.593	89.19	70-130

	SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
66	Acrylonitrile	50.000	58.058	116.12	70-130
67	Hexane	50.000	49.206	98.41	70-130
71	1,1-Dichloroethan	50.000	50.707	101.41	70-130
72	Isopropyl ether	50.000	58.288	116.58	70-130
73	Vinyl Acetate	50.000	45.761	91.52	70-130
79	Ethyl-tert-butyl	50.000	47.875	95.75	70-130
84	2,2-Dichloropropa	50.000	53.056	106.11	70-130
85	cis-1,2-Dichloroe	50.000	46.570	93.14	70-130
86	2-Butanone	50.000	41.342	82.68	70-130
87	Ethyl Acetate	50.000	62.401	124.80	70-130
89	Tetrahydrofuran	50.000	60.554	121.11	70-130
92	Chloroform	50.000	53.788	107.58	70-130
94	Cyclohexane	50.000	42.122	84.24	70-130
96	1,1,1-Trichloroet	50.000	56.277	112.55	70-130
99	1,1-Dichloroprope	50.000	49.975	99.95	70-130
97	Carbon Tetrachlor	50.000	62.174	124.35	70-130
101	2,2,4-Trimethylpe	50.000	50.560	101.12	70-130
102	Benzene	50.000	47.447	94.89	70-130
105	tert-Amyl methyl	50.000	48.943	97.89	70-130
106	1,2-Dichloroethan	50.000	67.521	135.04*	70-130
107	Heptane	50.000	43.235	86.47	70-130
110	n-Butanol	50.000	59.377	118.75	70-130
111	Trichloroethene	50.000	53.276	106.55	70-130
118	Dibromomethane	50.000	58.389	116.78	70-130
127	Methylcyclohexane	50.000	45.140	90.28	70-130
114	1,2-Dichloropropa	50.000	49.386	98.77	70-130
116	Methyl Methacryla	50.000	45.037	90.07	70-130
117	1,4-Dioxane	50.000	46.357	92.71	70-130
122	Bromodichlorometh	50.000	58.608	117.22	70-130
126	cis-1,3-Dichlorop	50.000	48.239	96.48	70-130
131	4-Methyl-2-pentan	50.000	52.698	105.40	70-130
136	Octane	50.000	53.460	106.92	70-130
137	Toluene	50.000	48.505	97.01	70-130
139	trans-1,3-Dichlor	50.000	53.126	106.25	70-130
141	1,1,2-Trichloroet	50.000	52.569	105.14	70-130
142	Tetrachloroethene	50.000	56.038	112.08	70-130
143	2-Hexanone	50.000	54.759	109.52	70-130
144	1,3-Dichloropropa	50.000	49.762	99.52	70-130
146	Dibromochlorometh	50.000	59.829	119.66	70-130
148	1,2-Dibromoethane	50.000	54.087	108.17	70-130
151	1-Bromo-2-Chloroe	50.000	50.559	101.12	70-130
154	Chlorobenzene	50.000	51.268	102.54	70-130
155	Ethyl Benzene	50.000	50.074	100.15	70-130
156	Nonane	50.000	64.592	129.18	70-130
157	1,1,1,2-Tetrachlo	50.000	47.997	95.99	70-130
158	m,p-Xylene	50.000	50.387	100.77	70-130
164	o-Xylene	50.000	48.748	97.50	70-130

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
165 Styrene	50.000	48.648	97.30	70-130
167 Bromoform	50.000	59.888	119.78	70-130
168 Cumene	50.000	49.724	99.45	70-130
169 Cyclohexanone	50.000	60.671	121.34	70-130
175 1,1,2,2-Tetrachlo	50.000	50.026	100.05	70-130
177 Bromobenzene	50.000	57.632	115.27	70-130
178 Propylbenzene	50.000	53.578	107.16	70-130
179 1,2,3-Trichloropr	50.000	55.190	110.38	70-130
181 trans-1,4-Dichlor	50.000	93.669	187.34*	70-130
182 Decane	50.000	53.697	107.39	70-130
183 4-Ethyltoluene	50.000	54.686	109.37	70-130
184 2-Chlorotoluene	50.000	55.094	110.19	70-130
185 1,3,5-Trimethylbe	50.000	54.300	108.60	70-130
188 alpha Methyl Styr	50.000	52.295	104.59	70-130
189 tert-Butylbenzene	50.000	56.082	112.16	70-130
190 1,2,4-Trimethylbe	50.000	54.936	109.87	70-130
192 sec-Butylbenzene	50.000	56.699	113.40	70-130
194 p-Cymene	50.000	55.799	111.60	70-130
195 1,3-Dichlorobenze	50.000	58.772	117.55	70-130
196 1,4-Dichlorobenze	50.000	58.808	117.62	70-130
199 alpha-Chlorotolue	50.000	54.404	108.81	70-130
201 Undecane	50.000	59.607	119.21	70-130
202 Butylbenzene	50.000	56.227	112.45	70-130
204 1,2-Dichlorobenze	50.000	57.592	115.18	70-130
206 1,2-Dibromo-3-chl	50.000	57.600	115.20	70-130
207 Dodecane	50.000	74.316	148.63*	70-130
213 1,2,4-Trichlorobe	58.000	74.220	127.97	70-130
215 Hexachlorobutadie	58.000	81.161	139.93*	70-130
216 Naphthalene	5.800	6.352	109.52	60-140
222 1,2,3-Trichlorobe	58.000	77.824	134.18*	70-130

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 104 1,2-Dichloroethan	25.000	30.398	121.59	70-130
$ 134 Toluene-d8	25.000	25.229	100.92	70-130
$ 170 4-Bromofluorobenz	25.000	27.900	111.60	70-130

Data File: /chem/msdp.i/02SEP21.b/p090203.d

Date : 02-SEP-2021 10:23

Client ID: LCS

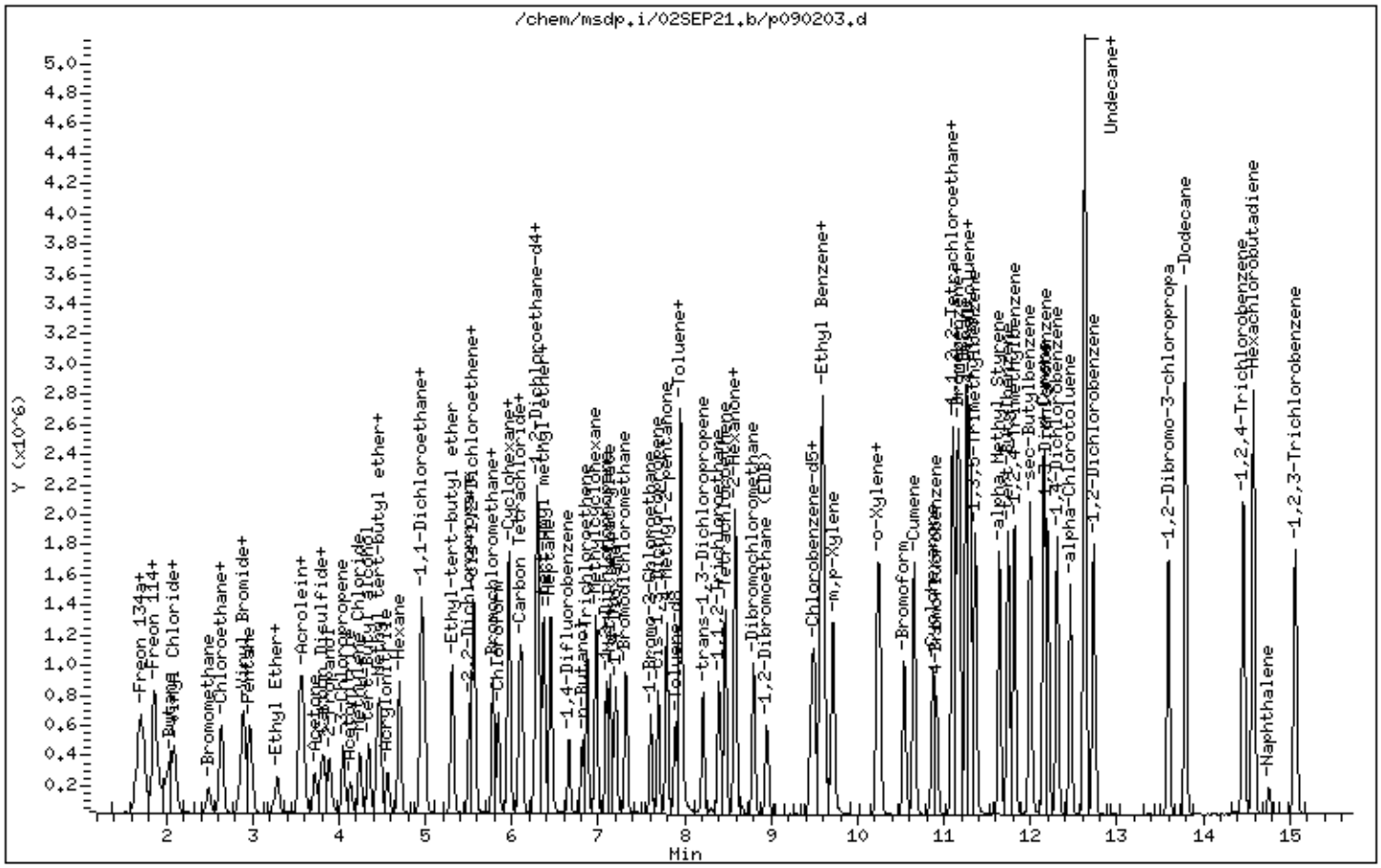
Instrument: msdp.i

Sample Info: 50mL 3018-2173

Operator: LD

Column phase: RTX-624

Column diameter: 0.25



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Client ID:	LCSD		
Lab ID:	2108676A-04AA	**Date/Time Analyzed:**	9/2/21 10:51 AM
Date/Time Collected:	NA - Not Applicable	**Dilution Factor:**	1.00
Media:	NA - Not Applicable	**Instrument/Filename:**	msdp.i / p090204

Compound	CAS#	%Recovery
1,1,1-Trichloroethane	71-55-6	106
1,1,2,2-Tetrachloroethane	79-34-5	98
1,1,2-Trichloroethane	79-00-5	104
1,1-Dichloroethane	75-34-3	97
1,1-Dichloroethene	75-35-4	86
1,2,4-Trichlorobenzene	120-82-1	134 Q
1,2,4-Trimethylbenzene	95-63-6	108
1,2-Dibromoethane (EDB)	106-93-4	110
1,2-Dichlorobenzene	95-50-1	116
1,2-Dichloroethane	107-06-2	133 Q
1,2-Dichloropropane	78-87-5	100
1,3,5-Trimethylbenzene	108-67-8	108
1,3-Butadiene	106-99-0	110
1,3-Dichlorobenzene	541-73-1	117
1,4-Dichlorobenzene	106-46-7	116
1,4-Dioxane	123-91-1	92
2,2,4-Trimethylpentane	540-84-1	96
2-Butanone (Methyl Ethyl Ketone)	78-93-3	80
2-Hexanone	591-78-6	110
2-Propanol	67-63-0	113
3-Chloropropene	107-05-1	77
4-Ethyltoluene	622-96-8	107
4-Methyl-2-pentanone	108-10-1	105
Acetone	67-64-1	96

* % Recovery is calculated using unrounded analytical results.

eurofins | Air Toxics

Client ID:	LCSD		
Lab ID:	2108676A-04AA	**Date/Time Analyzed:**	9/2/21 10:51 AM
Date/Time Collected:	NA - Not Applicable	**Dilution Factor:**	1.00
Media:	NA - Not Applicable	**Instrument/Filename:**	msdp.i / p090204

Compound	CAS#	%Recovery
alpha-Chlorotoluene	100-44-7	108
Benzene	71-43-2	93
Bromodichloromethane	75-27-4	116
Bromoform	75-25-2	120
Bromomethane	74-83-9	85
Carbon Disulfide	75-15-0	81
Carbon Tetrachloride	56-23-5	121
Chlorobenzene	108-90-7	103
Chloroethane	75-00-3	82
Chloroform	67-66-3	102
Chloromethane	74-87-3	121
cis-1,2-Dichloroethene	156-59-2	91
cis-1,3-Dichloropropene	10061-01-5	99
Cumene	98-82-8	100
Cyclohexane	110-82-7	82
Dibromochloromethane	124-48-1	120
Ethanol	64-17-5	92
Ethyl Benzene	100-41-4	100
Freon 11	75-69-4	115
Freon 113	76-13-1	97
Freon 114	76-14-2	105
Freon 12	75-71-8	112
Heptane	142-82-5	87
Hexachlorobutadiene	87-68-3	146 Q

* % Recovery is calculated using unrounded analytical results.

Client ID:	LCSD		
Lab ID:	2108676A-04AA	**Date/Time Analyzed:**	9/2/21 10:51 AM
Date/Time Collected:	NA - Not Applicable	**Dilution Factor:**	1.00
Media:	NA - Not Applicable	**Instrument/Filename:**	msdp.i / p090204

Compound	CAS#	%Recovery
Hexane	110-54-3	96
m,p-Xylene	108-38-3	101
Methyl tert-butyl ether	1634-04-4	85
Methylene Chloride	75-09-2	121
Naphthalene	91-20-3	117
o-Xylene	95-47-6	97
Propylbenzene	103-65-1	107
Propylene	115-07-1	108
Styrene	100-42-5	98
Tetrachloroethene	127-18-4	113
Tetrahydrofuran	109-99-9	115
Toluene	108-88-3	96
trans-1,2-Dichloroethene	156-60-5	89
trans-1,3-Dichloropropene	10061-02-6	108
Trichloroethene	79-01-6	108
Vinyl Acetate	108-05-4	83
Vinyl Chloride	75-01-4	84

Q = Exceeds Quality Control limits.
D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	112
4-Bromofluorobenzene	460-00-4	70-130	112
Toluene-d8	2037-26-5	70-130	99

* % Recovery is calculated using unrounded analytical results.

US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/02SEP21.b/p090204.d
Lab Smp Id: LCSD Client Smp ID: LCSD
Inj Date : 02-SEP-2021 10:51
Operator : LD Inst ID: msdp.i
Smp Info : 50mL 3018-2173
Misc Info : 50ppbv (200ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/02SEP21.b/p21q0519a.m
Meth Date : 02-Sep-2021 12:01 lk8g Quant Type: ISTD
Cal Date : 19-MAY-2021 19:45 Cal File: p051915.d
Als bottle: 14 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT20LCS_new.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE		(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 90 Bromochloromethane							CAS #: 74-97-5	
5.778	5.778 (1.000)	130	125942	25.0000			80.00- 120.00	100.00
5.778	5.778 (1.000)	128	97014				48.23- 108.23	77.03
5.778	5.778 (1.000)	49	281820				150.57- 210.57	223.77
* 108 1,4-Difluorobenzene							CAS #: 540-36-3	
6.659	6.659 (1.000)	114	442624	25.0000			80.00- 120.00	100.00
6.659	6.659 (1.000)	88	64972				0.00- 45.71	14.68
* 153 Chlorobenzene-d5							CAS #: 3114-55-4	
9.460	9.460 (1.000)	117	431027	25.0000			80.00- 120.00	100.00
9.460	9.460 (1.000)	82	221008				23.78- 83.78	51.27
$ 104 1,2-Dichloroethane-d4							CAS #: 17060-07-0	
6.315	6.308 (1.093)	65	195365	28.1084	28.108		80.00- 120.00	100.00
6.308	6.308 (1.092)	67	104067				27.21- 87.21	53.27
$ 134 Toluene-d8							CAS #: 2037-26-5	
7.891	7.891 (1.185)	98	477665	24.8519	24.852		80.00- 120.00	100.00
7.891	7.891 (1.185)	70	45893				0.00- 40.44	9.61

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 134 Toluene-d8 (continued)							
7.891	7.891 (1.185)	100	305462			34.95- 94.95	63.95
$ 170 4-Bromofluorobenzene					CAS #: 460-00-4		
10.914	10.921 (1.154)	174	309938	28.0024	28.002	80.00- 120.00	100.00
10.914	10.914 (1.154)	95	363875			95.92- 155.92	117.40
10.921	10.921 (1.154)	176	304552			66.89- 126.89	98.26
4 Freon 134a					CAS #: 811-97-2		
1.646	1.646 (0.285)	83	254390	63.8189	63.819	80.00- 120.00	100.00
1.646	1.646 (0.285)	69	169422			59.44- 119.44	66.60
1.744	1.744 (0.302)	51	1103429			419.06- 479.06	433.76
5 Propylene					CAS #: 115-07-1		
1.688	1.674 (0.292)	41	312557	54.2331	54.233	80.00- 120.00	100.00
1.688	1.674 (0.292)	42	209949			35.28- 95.28	67.17
1.688	1.674 (0.292)	39	222648			38.35- 98.35	71.23
7 1,1-Difluoroethane					CAS #: 75-37-6		
1.702	1.702 (0.295)	65	132490	46.4111	46.411	80.00- 120.00	100.00
1.744	1.744 (0.302)	51	1103429			597.63- 657.63	832.84
1.702	1.702 (0.295)	47	125614			33.72- 93.72	94.81
8 Freon 12					CAS #: 75-71-8		
1.716	1.716 (0.297)	85	635650	56.2738	56.274	80.00- 120.00	100.00
1.716	1.716 (0.297)	87	204118			2.37- 62.37	32.11
9 Chlorodifluoromethane					CAS #: 75-45-6		
1.758	1.744 (0.304)	67	69671	62.4417	62.442	80.00- 120.00	100.00
1.744	1.744 (0.302)	51	1103429			1501.01-1561.01	1583.76
10 Freon 114					CAS #: 76-14-2		
1.856	1.856 (0.321)	135	583456	52.6205	52.620	80.00- 120.00	100.00
1.856	1.856 (0.321)	137	183105			2.30- 62.30	31.38
12 Isobutane					CAS #: 75-28-5		
1.870	1.870 (0.324)	43	687419	53.8762	53.876	80.00- 120.00	100.00
1.870	1.870 (0.324)	42	226653			2.44- 62.44	32.97
1.870	1.870 (0.324)	58	19216			0.00- 33.36	2.80
15 Chloromethane					CAS #: 74-87-3		
1.940	1.940 (0.336)	50	397246	60.6192	60.619	80.00- 120.00	100.00
1.940	1.940 (0.336)	52	104318			0.00- 56.26	26.26
18 Butane					CAS #: 106-97-8		
2.039	2.032 (0.353)	58	68061	44.8360	44.836	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
18 Butane (continued)							
2.032	2.032 (0.352)	43	686319			823.29- 883.29	1008.38
19 Vinyl Chloride					CAS #: 75-01-4		
2.075	2.067 (0.359)	62	330252	41.8911	41.891	80.00- 120.00	100.00
2.075	2.075 (0.359)	64	101695			0.00- 59.69	30.79
20 1,3-Butadiene					CAS #: 106-99-0		
2.096	2.096 (0.363)	54	349753	55.1602	55.160	80.00- 120.00	100.00
2.096	2.089 (0.363)	39	338700			52.37- 112.37	96.84
24 Bromomethane					CAS #: 74-83-9		
2.483	2.483 (0.430)	94	215407	42.4940	42.494	80.00- 120.00	100.00
2.483	2.483 (0.430)	96	203765			64.07- 124.07	94.60
30 Chloroethane					CAS #: 75-00-3		
2.612	2.612 (0.452)	64	115841	40.8633	40.863	80.00- 120.00	100.00
2.619	2.612 (0.453)	66	33804			0.04- 60.04	29.18
2.612	2.612 (0.452)	49	56281			4.54- 64.54	48.58
31 Isopentane					CAS #: 78-78-4		
2.641	2.633 (0.457)	43	464195	53.8133	53.813	80.00- 120.00	100.00
2.641	2.641 (0.457)	57	253482			34.12- 94.12	54.61
32 Vinyl Bromide					CAS #: 593-60-2		
2.848	2.841 (0.493)	106	196016	41.8349	41.835	80.00- 120.00	100.00
2.848	2.841 (0.493)	108	197327			69.27- 129.27	100.67
33 Freon 11					CAS #: 75-69-4		
2.891	2.891 (0.500)	101	692367	57.6802	57.680	80.00- 120.00	100.00
2.891	2.891 (0.500)	103	452676			34.72- 94.72	65.38
34 Dichlorofluoromethane					CAS #: 75-43-4		
2.906	2.898 (0.503)	67	478059	46.2081	46.208	80.00- 120.00	100.00
2.906	2.898 (0.503)	69	146142			0.84- 60.84	30.57
35 Pentane					CAS #: 109-66-0		
2.970	2.970 (0.514)	43	719836	51.3399	51.340	80.00- 120.00	100.00
2.970	2.970 (0.514)	57	91831			0.00- 44.98	12.76
2.977	2.970 (0.515)	72	36900			0.00- 37.39	5.13
38 Ethyl Ether					CAS #: 60-29-7		
3.292	3.285 (0.570)	74	91644	38.7425	38.742	80.00- 120.00	100.00
3.292	3.285 (0.570)	59	212764			163.46- 223.46	232.16
3.285	3.285 (0.569)	45	372460			250.40- 310.40	406.42

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
39 Ethanol					CAS #: 64-17-5		
3.249	3.242 (0.562)	46	66517	53.2580	53.258	80.00- 120.00	100.00
3.285	3.285 (0.569)	45	370246			511.19- 571.19	556.62
42 Acrolein					CAS #: 107-02-8		
3.536	3.536 (0.612)	55	98959	45.6620	45.662	80.00- 120.00	100.00
3.536	3.536 (0.612)	56	133203			111.10- 171.10	134.60
43 Freon 113					CAS #: 76-13-1		
3.557	3.550 (0.616)	151	432720	48.5207	48.521	80.00- 120.00	100.00
3.557	3.550 (0.616)	153	276860			33.56- 93.56	63.98
3.550	3.550 (0.614)	101	500518			89.21- 149.21	115.67
44 1,1-Dichloroethene					CAS #: 75-35-4		
3.586	3.579 (0.621)	96	230511	43.2666	43.266	80.00- 120.00	100.00
3.586	3.579 (0.621)	98	147275			34.02- 94.02	63.89
3.586	3.579 (0.621)	61	538501			168.77- 228.77	233.61
47 Acetone					CAS #: 67-64-1		
3.715	3.715 (0.643)	58	158063	47.8731	47.873	80.00- 120.00	100.00
3.715	3.715 (0.643)	43	645091			302.95- 362.95	408.12
48 Carbon Disulfide					CAS #: 75-15-0		
3.830	3.822 (0.663)	76	567848	40.4564	40.456	80.00- 120.00	100.00
49 Iodomethane					CAS #: 74-88-4		
3.794	3.794 (0.657)	142	530715	56.8791	56.879	80.00- 120.00	100.00
3.794	3.794 (0.657)	127	277301			12.22- 72.22	52.25
52 2-Propanol					CAS #: 67-63-0		
3.887	3.887 (0.673)	45	751054	56.4407	56.441	80.00- 120.00	100.00
3.887	3.887 (0.673)	43	150713			0.00- 47.19	20.07
54 3-Chloropropene					CAS #: 107-05-1		
4.052	4.052 (0.701)	76	90482	38.5878	38.588	80.00- 120.00	100.00
4.052	4.045 (0.701)	41	532217			396.19- 456.19	588.20
57 Acetonitrile					CAS #: 75-05-8		
4.130	4.123 (0.715)	41	341139	55.0037	55.004	80.00- 120.00	100.00
4.130	4.123 (0.715)	40	183399			20.95- 80.95	53.76
4.130	4.123 (0.715)	38	38416			0.00- 41.17	11.26
59 Methylene Chloride					CAS #: 75-09-2		
4.238	4.238 (0.733)	49	517804	60.3784	60.378	80.00- 120.00	100.00
4.238	4.238 (0.733)	84	186586			22.03- 82.03	36.03
4.238	4.238 (0.733)	51	152229			0.18- 60.18	29.40

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
62 tert-Butyl alcohol					CAS #: 75-65-0		
4.345	4.338 (0.752)	59	715165	46.0862	46.086	80.00- 120.00	100.00
4.338	4.338 (0.751)	41	182154			0.00- 51.11	25.47
4.338	4.338 (0.751)	57	79841			0.00- 40.49	11.16
63 Methyl tert-butyl ether					CAS #: 1634-04-4		
4.446	4.446 (0.769)	73	655250	42.3653	42.365	80.00- 120.00	100.00
4.446	4.446 (0.769)	57	248802			3.10- 63.10	37.97
4.446	4.446 (0.769)	41	284507			1.28- 61.28	43.42
64 trans-1,2-Dichloroethene					CAS #: 156-60-5		
4.481	4.481 (0.776)	98	159251	44.7354	44.735	80.00- 120.00	100.00
4.481	4.474 (0.776)	61	471635			255.84- 315.84	296.16
4.481	4.474 (0.776)	96	240605			127.59- 187.59	151.09
66 Acrylonitrile					CAS #: 107-13-1		
4.560	4.560 (0.789)	52	268384	54.1588	54.159	80.00- 120.00	100.00
4.560	4.560 (0.789)	53	317244			88.05- 148.05	118.21
67 Hexane					CAS #: 110-54-3		
4.696	4.696 (0.813)	57	593530	47.8392	47.839	80.00- 120.00	100.00
4.696	4.696 (0.813)	43	467100			37.52- 97.52	78.70
4.696	4.696 (0.813)	86	57096			0.00- 41.48	9.62
71 1,1-Dichloroethane					CAS #: 75-34-3		
4.969	4.961 (0.860)	63	518339	48.5979	48.598	80.00- 120.00	100.00
4.969	4.961 (0.860)	65	144421			0.00- 59.70	27.86
72 Isopropyl ether					CAS #: 108-20-3		
4.947	4.947 (0.856)	45	1604214	55.5960	55.596	80.00- 120.00	100.00
4.954	4.954 (0.857)	87	208073			0.00- 48.18	12.97
4.954	4.947 (0.857)	59	132517			0.00- 40.15	8.26
73 Vinyl Acetate					CAS #: 108-05-4		
4.997	4.997 (0.865)	86	56891	41.5042	41.504	80.00- 120.00	100.00
4.997	4.990 (0.865)	43	1442970			2432.48-2492.48	2536.35
79 Ethyl-tert-butyl ether					CAS #: 637-92-3		
5.305	5.305 (0.918)	59	1152971	46.1603	46.160	80.00- 120.00	100.00
5.305	5.305 (0.918)	87	320156			1.00- 61.00	27.77
5.305	5.305 (0.918)	41	281700			0.00- 48.73	24.43
84 2,2-Dichloropropane					CAS #: 594-20-7		
5.513	5.506 (0.954)	77	483697	51.0698	51.070	80.00- 120.00	100.00
5.513	5.506 (0.954)	79	154623			2.28- 62.28	31.97
5.513	5.513 (0.954)	97	105535			0.00- 53.93	21.82

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
85 cis-1,2-Dichloroethene					CAS #: 156-59-2		
5.549	5.549 (0.960)	98	168992	45.7445	45.744	80.00- 120.00	100.00
5.549	5.549 (0.960)	96	261092			125.75- 185.75	154.50
5.549	5.549 (0.960)	61	666569			332.40- 392.40	394.44
86 2-Butanone					CAS #: 78-93-3		
5.556	5.556 (0.962)	72	114695	40.2916	40.292	80.00- 120.00	100.00
5.563	5.563 (0.963)	43	2110766			1214.50-1274.50	1840.33
5.556	5.556 (0.962)	57	62947			14.68- 74.68	54.88
87 Ethyl Acetate					CAS #: 141-78-6		
5.570	5.570 (0.964)	45	168692	59.5783	59.578	80.00- 120.00	100.00
5.549	5.549 (0.960)	61	666569			452.04- 512.04	395.14
5.577	5.570 (0.965)	70	57310			22.77- 82.77	33.97
89 Tetrahydrofuran					CAS #: 109-99-9		
5.778	5.771 (1.000)	42	545186	57.5865	57.586	80.00- 120.00	100.00
5.778	5.778 (1.000)	71	96689			0.00- 55.82	17.74
5.778	5.771 (1.000)	72	100467			0.00- 57.59	18.43
92 Chloroform					CAS #: 67-66-3		
5.842	5.835 (1.011)	83	558252	50.9448	50.945	80.00- 120.00	100.00
5.842	5.835 (1.011)	85	361765			34.70- 94.70	64.80
94 Cyclohexane					CAS #: 110-82-7		
5.964	5.957 (1.032)	84	325689	41.1106	41.110	80.00- 120.00	100.00
5.957	5.957 (1.031)	56	663586			142.57- 202.57	203.75
5.957	5.957 (1.031)	41	415122			62.09- 122.09	127.46
96 1,1,1-Trichloroethane					CAS #: 71-55-6		
5.971	5.971 (1.033)	97	656269	53.0137	53.014	80.00- 120.00	100.00
5.971	5.971 (1.033)	99	418575			34.02- 94.02	63.78
97 Carbon Tetrachloride					CAS #: 56-23-5		
6.093	6.086 (1.055)	119	700571	60.3403	60.340	80.00- 120.00	100.00
6.093	6.086 (1.055)	117	688613			70.64- 130.64	98.29
99 1,1-Dichloropropene					CAS #: 563-58-6		
6.122	6.115 (0.919)	110	150632	49.9955	49.995	80.00- 120.00	100.00
6.115	6.115 (0.918)	75	370337			226.85- 286.85	245.86
101 2,2,4-Trimethylpentane					CAS #: 540-84-1		
6.279	6.279 (1.087)	57	2077175	48.1688	48.169	80.00- 120.00	100.00
6.279	6.279 (1.087)	56	708484			2.24- 62.24	34.11
6.279	6.279 (1.087)	41	617142			0.00- 54.39	29.71

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
102 Benzene					CAS #: 71-43-2		
6.301	6.301 (0.946)	78	678609	46.4597	46.460	80.00- 120.00	100.00
6.301	6.301 (0.946)	77	161696			0.00- 52.90	23.83
105 tert-Amyl methyl ether					CAS #: 994-05-8		
6.358	6.358 (0.955)	87	200434	48.6655	48.665	80.00- 120.00	100.00
6.358	6.358 (0.955)	73	762068			372.79- 432.79	380.21
6.358	6.358 (0.955)	55	351215			112.09- 172.09	175.23
106 1,2-Dichloroethane					CAS #: 107-06-2		
6.380	6.380 (0.958)	62	505710	66.5381	66.538	80.00- 120.00	100.00(R)
6.380	6.380 (0.958)	64	152821			0.79- 60.79	30.22
107 Heptane					CAS #: 142-82-5		
6.444	6.444 (0.968)	71	250938	43.3666	43.367	80.00- 120.00	100.00
6.444	6.444 (0.968)	43	941730			226.53- 286.53	375.28
6.444	6.444 (0.968)	57	427697			100.85- 160.85	170.44
110 n-Butanol					CAS #: 71-36-3		
6.809	6.809 (1.023)	56	316981	59.6901	59.690	80.00- 120.00	100.00
6.809	6.809 (1.023)	41	256401			40.99- 100.99	80.89
6.809	6.809 (1.023)	43	213523			27.38- 87.38	67.36
111 Trichloroethene					CAS #: 79-01-6		
6.867	6.867 (1.031)	95	381352	53.8053	53.805	80.00- 120.00	100.00
6.867	6.867 (1.031)	130	420339			76.29- 136.29	110.22
6.867	6.867 (1.031)	97	244873			33.63- 93.63	64.21
114 1,2-Dichloropropane					CAS #: 78-87-5		
7.096	7.096 (1.066)	63	373304	49.8518	49.852	80.00- 120.00	100.00
7.096	7.096 (1.066)	62	270360			41.07- 101.07	72.42
7.096	7.096 (1.066)	41	303864			22.53- 82.53	81.40
116 Methyl Methacrylate					CAS #: 80-62-6		
7.139	7.139 (0.755)	69	273617	46.2004	46.200	80.00- 120.00	100.00
7.139	7.139 (0.755)	41	746093			179.84- 239.84	272.68
7.139	7.139 (0.755)	100	111565			9.59- 69.59	40.77
117 1,4-Dioxane					CAS #: 123-91-1		
7.175	7.175 (1.077)	88	182367	45.8251	45.825	80.00- 120.00	100.00
7.175	7.175 (1.077)	58	209996			68.28- 128.28	115.15
7.175	7.175 (1.077)	57	78259			2.68- 62.68	42.91
118 Dibromomethane					CAS #: 74-95-3		
7.211	7.211 (0.762)	174	374432	58.5404	58.540	80.00- 120.00	100.00
7.203	7.203 (0.761)	93	331714			60.09- 120.09	88.59

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
118 Dibromomethane (continued)							
7.203	7.203 (0.761)	95	293392			48.38- 108.38	78.36
122 Bromodichloromethane					CAS #: 75-27-4		
7.318	7.318 (1.099)	83	636102	57.8832	57.883	80.00- 120.00	100.00
7.318	7.318 (1.099)	85	413174			35.24- 95.24	64.95
126 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.698	7.698 (1.156)	75	458976	49.4362	49.436	80.00- 120.00	100.00
7.698	7.698 (1.156)	77	142063			2.42- 62.42	30.95
7.690	7.690 (1.155)	39	400196			37.16- 97.16	87.19
127 Methylcyclohexane					CAS #: 108-87-2		
6.974	6.974 (1.047)	83	463727	45.2134	45.213	80.00- 120.00	100.00
6.974	6.974 (1.047)	98	228804			15.78- 75.78	49.34
6.974	6.974 (1.047)	55	652955			84.64- 144.64	140.81
131 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.791	7.798 (1.170)	58	398324	52.3812	52.381	80.00- 120.00	100.00
7.791	7.791 (1.170)	43	1322637			242.35- 302.35	332.05
7.798	7.798 (1.171)	85	111473			3.24- 63.24	27.99
137 Toluene					CAS #: 108-88-3		
7.948	7.948 (1.194)	91	970571	48.1626	48.163	80.00- 120.00	100.00
7.948	7.948 (1.194)	92	573240			28.38- 88.38	59.06
136 Octane					CAS #: 111-65-9		
7.948	7.948 (1.194)	57	451177	52.5082	52.508	80.00- 120.00	100.00
7.948	7.948 (1.194)	85	323953			56.00- 116.00	71.80
7.948	7.948 (1.194)	43	1364596			228.66- 288.66	302.45
139 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
8.213	8.213 (0.868)	75	458033	53.9997	54.000	80.00- 120.00	100.00
8.213	8.213 (0.868)	77	143058			1.24- 61.24	31.23
8.213	8.213 (0.868)	39	368576			34.11- 94.11	80.47
141 1,1,2-Trichloroethane					CAS #: 79-00-5		
8.400	8.400 (0.888)	97	366124	52.2219	52.222	80.00- 120.00	100.00
8.400	8.400 (0.888)	99	227176			31.96- 91.96	62.05
8.400	8.400 (0.888)	83	292017			52.93- 112.93	79.76
142 Tetrachloroethene					CAS #: 127-18-4		
8.464	8.464 (0.895)	166	554438	56.4403	56.440	80.00- 120.00	100.00
8.464	8.464 (0.895)	129	423139			47.84- 107.84	76.32
8.464	8.464 (0.895)	131	416172			45.29- 105.29	75.06

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
143 2-Hexanone					CAS #: 591-78-6		
8.586	8.586 (0.908)	58	551699	55.0787	55.079	80.00- 120.00	100.00
8.586	8.586 (0.908)	43	1284463			162.87- 222.87	232.82
8.586	8.586 (0.908)	100	78089			0.00- 45.94	14.15
144 1,3-Dichloropropane					CAS #: 142-28-9		
8.579	8.579 (1.288)	76	468375	48.9428	48.943	80.00- 120.00	100.00
8.579	8.579 (1.288)	41	783656			94.99- 154.99	167.31
8.579	8.579 (1.288)	78	148559			2.05- 62.05	31.72
146 Dibromochloromethane					CAS #: 124-48-1		
8.801	8.801 (0.930)	129	785812	59.9883	59.988	80.00- 120.00	100.00
8.801	8.801 (0.930)	127	604485			47.45- 107.45	76.92
148 1,2-Dibromoethane (EDB)					CAS #: 106-93-4		
8.951	8.951 (0.946)	107	616309	54.8096	54.810	80.00- 120.00	100.00
8.951	8.951 (0.946)	109	574683			64.21- 124.21	93.25
151 1-Bromo-2-Chloroethane					CAS #: 107-04-0		
7.605	7.605 (1.142)	63	696218	50.6724	50.672	80.00- 120.00	100.00
7.605	7.605 (1.142)	65	195625			0.00- 59.64	28.10
7.605	7.605 (1.142)	144	71536			0.00- 39.63	10.28
154 Chlorobenzene					CAS #: 108-90-7		
9.496	9.496 (1.004)	112	881980	51.5315	51.531	80.00- 120.00	100.00
9.496	9.496 (1.004)	114	283206			1.74- 61.74	32.11
9.496	9.496 (1.004)	77	446784			25.04- 85.04	50.66
155 Ethyl Benzene					CAS #: 100-41-4		
9.567	9.567 (1.011)	106	446147	49.8508	49.851	80.00- 120.00	100.00
9.567	9.567 (1.011)	91	1339997			273.74- 333.74	300.35
156 Nonane					CAS #: 111-84-2		
9.596	9.596 (1.014)	43	1432391	62.2063	62.206	80.00- 120.00	100.00
9.596	9.596 (1.014)	57	1004021			54.16- 114.16	70.09
9.596	9.603 (1.014)	85	244300			0.00- 53.90	17.06
157 1,1,1,2-Tetrachloroethane					CAS #: 630-20-6		
9.596	9.596 (1.014)	131	454652	47.4455	47.445	80.00- 120.00	100.00
9.460	9.460 (1.000)	117	431027			57.42- 117.42	94.80
9.596	9.596 (1.014)	95	167800			5.70- 65.70	36.91
158 m,p-Xylene					CAS #: 108-38-3		
9.718	9.718 (1.027)	106	566627	50.5514	50.551	80.00- 120.00	100.00
9.718	9.718 (1.027)	91	1087299			163.73- 223.73	191.89

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
164 o-Xylene					CAS #: 95-47-6		
10.226	10.226 (1.081)	106	520385	48.4556	48.456	80.00- 120.00	100.00
10.226	10.226 (1.081)	91	1079261			177.45- 237.45	207.40
165 Styrene					CAS #: 100-42-5		
10.255	10.255 (1.084)	104	896137	48.7920	48.792	80.00- 120.00	100.00
10.255	10.255 (1.084)	78	436537			17.88- 77.88	48.71
167 Bromoform					CAS #: 75-25-2		
10.541	10.541 (1.114)	173	772837	59.8542	59.854	80.00- 120.00	100.00
10.541	10.541 (1.114)	171	395504			21.25- 81.25	51.18
168 Cumene					CAS #: 98-82-8		
10.649	10.649 (1.126)	105	1682264	49.8653	49.865	80.00- 120.00	100.00
10.649	10.649 (1.126)	120	490434			0.00- 58.52	29.15
10.649	10.649 (1.126)	51	284459			0.00- 43.00	16.91
169 Cyclohexanone					CAS #: 108-94-1		
10.871	10.871 (1.149)	55	726775	60.2384	60.238	80.00- 120.00	100.00
10.871	10.871 (1.149)	98	190106			1.94- 61.94	26.16
10.871	10.871 (1.149)	42	521696			37.89- 97.89	71.78
175 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
11.100	11.100 (1.173)	83	810048	49.1949	49.195	80.00- 120.00	100.00
11.100	11.100 (1.173)	85	528824			35.20- 95.20	65.28
177 Bromobenzene					CAS #: 108-86-1		
11.107	11.100 (1.174)	156	587427	57.2513	57.251	80.00- 120.00	100.00
11.107	11.100 (1.174)	158	565547			67.21- 127.21	96.28
11.172	11.172 (1.181)	77	327706			29.02- 89.02	55.79
178 Propylbenzene					CAS #: 103-65-1		
11.150	11.150 (1.179)	120	534127	53.3960	53.396	80.00- 120.00	100.00
11.150	11.150 (1.179)	91	2029470			366.49- 426.49	379.96
11.150	11.150 (1.179)	105	78540			0.00- 44.85	14.70
179 1,2,3-Trichloropropane					CAS #: 96-18-4		
11.179	11.179 (1.182)	110	290111	55.2789	55.279	80.00- 120.00	100.00
11.179	11.179 (1.182)	75	854539			280.55- 340.55	294.56
11.100	11.100 (1.173)	61	154475			15.49- 75.49	53.25
181 trans-1,4-Dichloro-2-butene					CAS #: 110-57-6		
11.179	11.179 (1.182)	53	319843	92.9652	92.965	80.00- 120.00	100.00(R)
11.172	11.172 (1.181)	89	183124			49.11- 109.11	57.25
11.179	11.179 (1.182)	75	854539			426.44- 486.44	267.17

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
182 Decane					CAS #: 124-18-5		
11.251	11.251 (1.189)	57	1367694	52.1195	52.119	80.00- 120.00	100.00
11.251	11.251 (1.189)	71	310894			0.00- 57.66	22.73
11.258	11.258 (1.190)	142	50227			0.00- 34.09	3.67
183 4-Ethyltoluene					CAS #: 622-96-8		
11.286	11.286 (1.193)	120	581864	53.4879	53.488	80.00- 120.00	100.00
11.286	11.286 (1.193)	105	1793923			284.55- 344.55	308.31
184 2-Chlorotoluene					CAS #: 95-49-8		
11.308	11.308 (1.195)	126	469047	55.0697	55.070	80.00- 120.00	100.00
11.308	11.308 (1.195)	91	1542993			315.17- 375.17	328.96
11.301	11.301 (1.195)	65	235409			21.55- 81.55	50.19
185 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
11.365	11.365 (1.201)	120	809918	54.0758	54.076	80.00- 120.00	100.00
11.365	11.365 (1.201)	105	1555603			164.93- 224.93	192.07
188 alpha Methyl Styrene					CAS #: 98-83-9		
11.644	11.644 (1.231)	118	784558	52.7293	52.729	80.00- 120.00	100.00
11.644	11.644 (1.231)	103	432243			25.30- 85.30	55.09
189 tert-Butylbenzene					CAS #: 98-06-6		
11.738	11.738 (1.241)	119	1525784	54.4663	54.466	80.00- 120.00	100.00
11.738	11.738 (1.241)	134	374680			0.00- 54.25	24.56
11.738	11.738 (1.241)	91	911197			31.27- 91.27	59.72
190 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
11.816	11.816 (1.249)	105	1525645	53.9671	53.967	80.00- 120.00	100.00
11.816	11.816 (1.249)	120	783020			19.05- 79.05	51.32
192 sec-Butylbenzene					CAS #: 135-98-8		
11.995	11.995 (1.268)	134	489893	56.2663	56.266	80.00- 120.00	100.00
11.995	11.995 (1.268)	105	2184379			437.55- 497.55	445.89
11.995	11.995 (1.268)	91	339181			40.76- 100.76	69.24
194 p-Cymene					CAS #: 99-87-6		
12.160	12.160 (1.285)	119	2101408	54.6067	54.607	80.00- 120.00	100.00
12.160	12.160 (1.285)	134	550336			0.00- 55.54	26.19
12.160	12.160 (1.285)	91	448611			0.00- 51.48	21.35
195 1,3-Dichlorobenzene					CAS #: 541-73-1		
12.196	12.196 (1.289)	146	1133477	58.5780	58.578	80.00- 120.00	100.00
12.196	12.196 (1.289)	148	722440			33.21- 93.21	63.74
12.196	12.196 (1.289)	111	444111			11.31- 71.31	39.18

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
196 1,4-Dichlorobenzene					CAS #: 106-46-7		
12.311	12.311 (1.301)	146	1137651	58.1804	58.180	80.00- 120.00	100.00
12.311	12.311 (1.301)	148	727685			33.90- 93.90	63.96
12.311	12.311 (1.301)	111	431726			9.45- 69.45	37.95
199 alpha-Chlorotoluene					CAS #: 100-44-7		
12.461	12.461 (1.317)	91	1455166	54.1929	54.193	80.00- 120.00	100.00
12.468	12.461 (1.318)	126	352448			0.00- 53.26	24.22
201 Undecane					CAS #: 1120-21-4		
12.640	12.640 (1.336)	57	1802819	59.4764	59.476	80.00- 120.00	100.00
12.640	12.640 (1.336)	43	1904007			58.12- 118.12	105.61
202 Butylbenzene					CAS #: 104-51-8		
12.626	12.626 (1.335)	134	546665	55.9312	55.931	80.00- 120.00	100.00
12.626	12.626 (1.335)	91	1789784			314.79- 374.79	327.40
12.626	12.626 (1.335)	92	947141			154.29- 214.29	173.26
204 1,2-Dichlorobenzene					CAS #: 95-50-1		
12.740	12.740 (1.347)	146	1101137	58.0360	58.036	80.00- 120.00	100.00
12.740	12.740 (1.347)	148	702880			33.84- 93.84	63.83
12.740	12.733 (1.347)	111	441206			12.73- 72.73	40.07
206 1,2-Dibromo-3-chloropropane					CAS #: 96-12-8		
13.614	13.600 (1.439)	157	666490	57.9978	57.998	80.00- 120.00	100.00
13.614	13.600 (1.439)	75	554899			52.48- 112.48	83.26
13.614	13.600 (1.439)	155	520424			47.41- 107.41	78.08
207 Dodecane					CAS #: 112-40-3		
13.822	13.801 (1.461)	57	1959869	81.5739	81.574	80.00- 120.00	100.00(R)
13.822	13.801 (1.461)	43	1927787			52.87- 112.87	98.36
213 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
14.495	14.467 (1.532)	180	1092909	77.9633	77.963	80.00- 120.00	100.00(R)
14.495	14.467 (1.532)	182	1056700			65.33- 125.33	96.69
215 Hexachlorobutadiene					CAS #: 87-68-3		
14.617	14.581 (1.545)	225	833532	84.4884	84.488	80.00- 120.00	100.00(R)
14.617	14.581 (1.545)	223	525498			33.17- 93.17	63.04
216 Naphthalene					CAS #: 91-20-3		
14.796	14.768 (1.564)	128	243542	6.79787	6.798	80.00- 120.00	100.00
14.796	14.768 (1.564)	127	30898			0.00- 42.88	12.69
222 1,2,3-Trichlorobenzene					CAS #: 87-61-6		
15.104	15.068 (1.597)	180	1057836	85.3617	85.362	80.00- 120.00	100.00(R)

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
222 1,2,3-Trichlorobenzene (continued)							
15.104	15.068 (1.597)	182	1000304			65.75- 125.75	94.56
15.104	15.068 (1.597)	145	355341			5.23- 65.23	33.59

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p090204.d
Lab Smp Id: LCSD
Analysis Type: VOA
Quant Type: ISTD
Operator: LD
Method File: /chem/msdp.i/02SEP21.b/p21q0519a.m
Misc Info: 50ppbv (200ppbv)

Calibration Date: 02-SEP-2021
Calibration Time: 09:55
Client Smp ID: LCSD
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	111368	66821	155915	125942	13.09
108 1,4-Difluorobenze	392899	235739	550059	442624	12.66
153 Chlorobenzene-d5	382253	229352	535154	431027	12.76

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.78	5.45	6.11	5.78	0.00
108 1,4-Difluorobenze	6.66	6.33	6.99	6.66	0.00
153 Chlorobenzene-d5	9.46	9.13	9.79	9.46	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

US32TAR1

RECOVERY REPORT

Client Name: Client SDG: 02SEP21
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: LCSD Client Smp ID: LCSD
Level: LOW Operator: LD
Data Type: MS DATA SampleType: LCSD
SpikeList File: AT20_new.spk Quant Type: ISTD
Sublist File: AT20LCS_new.sub
Method File: /chem/msdp.i/02SEP21.b/p21q0519a.m
Misc Info: 50ppbv (200ppbv)

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
4 Freon 134a	50.000	63.819	127.64	70-130
5 Propylene	50.000	54.233	108.47	70-130
7 1,1-Difluoroethan	50.000	46.411	92.82	70-130
8 Freon 12	50.000	56.274	112.55	70-130
9 Chlorodifluoromet	50.000	62.442	124.88	70-130
10 Freon 114	50.000	52.620	105.24	70-130
12 Isobutane	50.000	53.876	107.75	70-130
15 Chloromethane	50.000	60.619	121.24	70-130
18 Butane	50.000	44.836	89.67	70-130
19 Vinyl Chloride	50.000	41.891	83.78	70-130
20 1,3-Butadiene	50.000	55.160	110.32	70-130
24 Bromomethane	50.000	42.494	84.99	70-130
30 Chloroethane	50.000	40.863	81.73	70-130
31 Isopentane	50.000	53.813	107.63	70-130
32 Vinyl Bromide	50.000	41.835	83.67	70-130
33 Freon 11	50.000	57.680	115.36	70-130
34 Dichlorofluoromet	50.000	46.208	92.42	70-130
35 Pentane	50.000	51.340	102.68	70-130
38 Ethyl Ether	50.000	38.742	77.48	70-130
39 Ethanol	58.000	53.258	91.82	70-130
42 Acrolein	58.000	45.662	78.73	70-130
43 Freon 113	50.000	48.521	97.04	70-130
44 1,1-Dichloroethen	50.000	43.266	86.53	70-130
47 Acetone	50.000	47.873	95.75	70-130
48 Carbon Disulfide	50.000	40.456	80.91	70-130
49 Iodomethane	50.000	56.879	113.76	70-130
52 2-Propanol	50.000	56.441	112.88	70-130
54 3-Chloropropene	50.000	38.588	77.18	70-130
57 Acetonitrile	50.000	55.004	110.01	70-130
59 Methylene Chlorid	50.000	60.378	120.76	70-130
62 tert-Butyl alcoho	50.000	46.086	92.17	70-130
63 Methyl tert-butyl	50.000	42.365	84.73	70-130
64 trans-1,2-Dichlor	50.000	44.735	89.47	70-130

	SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
66	Acrylonitrile	50.000	54.159	108.32	70-130
67	Hexane	50.000	47.839	95.68	70-130
71	1,1-Dichloroethan	50.000	48.598	97.20	70-130
72	Isopropyl ether	50.000	55.596	111.19	70-130
73	Vinyl Acetate	50.000	41.504	83.01	70-130
79	Ethyl-tert-butyl	50.000	46.160	92.32	70-130
84	2,2-Dichloropropa	50.000	51.070	102.14	70-130
85	cis-1,2-Dichloroe	50.000	45.744	91.49	70-130
86	2-Butanone	50.000	40.292	80.58	70-130
87	Ethyl Acetate	50.000	59.578	119.16	70-130
89	Tetrahydrofuran	50.000	57.586	115.17	70-130
92	Chloroform	50.000	50.945	101.89	70-130
94	Cyclohexane	50.000	41.110	82.22	70-130
96	1,1,1-Trichloroet	50.000	53.014	106.03	70-130
99	1,1-Dichloroprope	50.000	49.995	99.99	70-130
97	Carbon Tetrachlor	50.000	60.340	120.68	70-130
101	2,2,4-Trimethylpe	50.000	48.169	96.34	70-130
102	Benzene	50.000	46.460	92.92	70-130
105	tert-Amyl methyl	50.000	48.665	97.33	70-130
106	1,2-Dichloroethan	50.000	66.538	133.08*	70-130
107	Heptane	50.000	43.367	86.73	70-130
110	n-Butanol	50.000	59.690	119.38	70-130
111	Trichloroethene	50.000	53.805	107.61	70-130
118	Dibromomethane	50.000	58.540	117.08	70-130
127	Methylcyclohexane	50.000	45.213	90.43	70-130
114	1,2-Dichloropropa	50.000	49.852	99.70	70-130
116	Methyl Methacryla	50.000	46.200	92.40	70-130
117	1,4-Dioxane	50.000	45.825	91.65	70-130
122	Bromodichlorometh	50.000	57.883	115.77	70-130
126	cis-1,3-Dichlorop	50.000	49.436	98.87	70-130
131	4-Methyl-2-pentan	50.000	52.381	104.76	70-130
136	Octane	50.000	52.508	105.02	70-130
137	Toluene	50.000	48.163	96.33	70-130
139	trans-1,3-Dichlor	50.000	54.000	108.00	70-130
141	1,1,2-Trichloroet	50.000	52.222	104.44	70-130
142	Tetrachloroethene	50.000	56.440	112.88	70-130
143	2-Hexanone	50.000	55.079	110.16	70-130
144	1,3-Dichloropropa	50.000	48.943	97.89	70-130
146	Dibromochlorometh	50.000	59.988	119.98	70-130
148	1,2-Dibromoethane	50.000	54.810	109.62	70-130
151	1-Bromo-2-Chloroe	50.000	50.672	101.34	70-130
154	Chlorobenzene	50.000	51.531	103.06	70-130
155	Ethyl Benzene	50.000	49.851	99.70	70-130
156	Nonane	50.000	62.206	124.41	70-130
157	1,1,1,2-Tetrachlo	50.000	47.445	94.89	70-130
158	m,p-Xylene	50.000	50.551	101.10	70-130
164	o-Xylene	50.000	48.456	96.91	70-130

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
165 Styrene	50.000	48.792	97.58	70-130
167 Bromoform	50.000	59.854	119.71	70-130
168 Cumene	50.000	49.865	99.73	70-130
169 Cyclohexanone	50.000	60.238	120.48	70-130
175 1,1,2,2-Tetrachlo	50.000	49.195	98.39	70-130
177 Bromobenzene	50.000	57.251	114.50	70-130
178 Propylbenzene	50.000	53.396	106.79	70-130
179 1,2,3-Trichloropr	50.000	55.279	110.56	70-130
181 trans-1,4-Dichlor	50.000	92.965	185.93*	70-130
182 Decane	50.000	52.119	104.24	70-130
183 4-Ethyltoluene	50.000	53.488	106.98	70-130
184 2-Chlorotoluene	50.000	55.070	110.14	70-130
185 1,3,5-Trimethylbe	50.000	54.076	108.15	70-130
188 alpha Methyl Styr	50.000	52.729	105.46	70-130
189 tert-Butylbenzene	50.000	54.466	108.93	70-130
190 1,2,4-Trimethylbe	50.000	53.967	107.93	70-130
192 sec-Butylbenzene	50.000	56.266	112.53	70-130
194 p-Cymene	50.000	54.607	109.21	70-130
195 1,3-Dichlorobenze	50.000	58.578	117.16	70-130
196 1,4-Dichlorobenze	50.000	58.180	116.36	70-130
199 alpha-Chlorotolue	50.000	54.193	108.39	70-130
201 Undecane	50.000	59.476	118.95	70-130
202 Butylbenzene	50.000	55.931	111.86	70-130
204 1,2-Dichlorobenze	50.000	58.036	116.07	70-130
206 1,2-Dibromo-3-chl	50.000	57.998	116.00	70-130
207 Dodecane	50.000	81.574	163.15*	70-130
213 1,2,4-Trichlorobe	58.000	77.963	134.42*	70-130
215 Hexachlorobutadie	58.000	84.488	145.67*	70-130
216 Naphthalene	5.800	6.798	117.20	60-140
222 1,2,3-Trichlorobe	58.000	85.362	147.18*	70-130

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 104 1,2-Dichloroethan	25.000	28.108	112.43	70-130
$ 134 Toluene-d8	25.000	24.852	99.41	70-130
$ 170 4-Bromofluorobenz	25.000	28.002	112.01	70-130

Data File: /chem/msdp.i/02SEP21.b/p090204.d

Page 1

Date : 02-SEP-2021 10:51

Client ID: LCSD

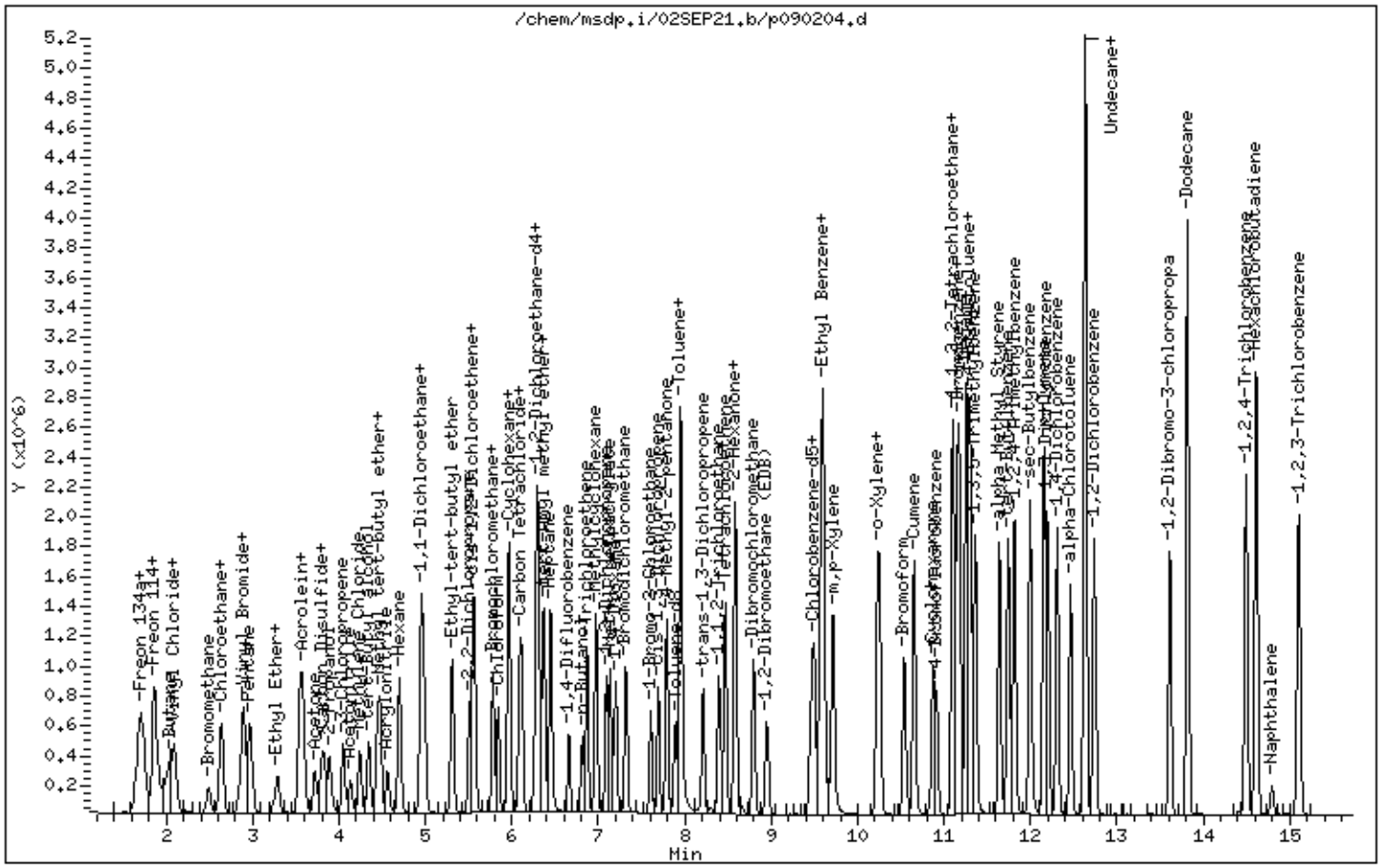
Instrument: msdp.i

Sample Info: 50mL 3018-2173

Operator: LD

Column phase: RTX-624

Column diameter: 0.25



MSDP

								Method TO-15/TO-14					
	BFB Verification of 176/174 ratio: (83144/86072)*100=96.60%							SOP# 6					
		3234-67	Exp. Date:		11/4/21			Vacuum:	NA				
	BCM	111,368				Please check all standards							
	1,4-DFB	392,899				Surr.# 3234-67		Exp. Date:	11/4/21	Surrogate# NA		Exp. Date:	NA
	CB-d5	382,253				CCV: 3018-2192		Exp. Date:	11/2/21	LCS: 3018-2173		Exp. Date:	10/28/21
						CCV sp1#		Exp. Date:		LCS sp1 #		Exp. Date:	
						CCV sp2#		Exp. Date:		LCS sp2 #		Exp. Date:	
	Verified CCV vs ICAL mid-point(-40%): LD					CCV sp3#		Exp. Date:		LCS sp3 #		Exp. Date:	
	Method: p21q0519a.m												

	File #	Enter/Scan Sample IDs	Canister#	Cart Pos.	Pressure	mL	DF	Verify Load	Loaded Init	Date Analyzed	Time	Review Init	Comments
√	P090201	BFB Tune Check	3234-67	10	36ng	200ml	1.00	LD	LD	9/2/2021	0915	LD	Exp. 11/4/21. leg validation
√	P090202	CCV	3018-2192	13	50ppbv (200ppbv)	50mL	1.00	LD	LD	9/2/2021	0955	LD	Exp. 11/2/21. 2 out AT-12, 2 out AT-20
√	P090203	LCS	3018-2173	14	50ppbv (200ppbv)	50mL	1.00	LD	LD	9/2/2021	1023	LD	Exp. 10/28/21. 3 out AT-12, 5 out AT-20
√	P090204	LCSD	3018-2173	14	50ppbv (200ppbv)	50mL	1.00	LD	LD	9/2/2021	1051	LD	Exp. 10/28/21. RPD ok
√	P090205	CCVsp	3018-2127	11	50ppbv (200ppbv)	50mL	1.00	LD	LD	9/2/2021	1141	LD	Exp. 9/26/21. 2 out
√	P090206	TPHg CCV	3234-83	12	500ppbv(1250ppbv)	80mL	1.00	LD	LD	9/2/2021	1209	LD	Exp. 12/1/21
√	P090207	TPHg ~~CCV~~ Verification	3234-84	12	500ppbv(1250ppbv)	80mL	1.00	LD	LD	9/2/2021	1249	LD	Exp. 12/1/21
√	P090208	TPHg LCS Verification	3234-85	12	500ppbv(1250ppbv)	80mL	1.00	LD	LD	9/2/2021	1340	LD	Exp. 12/1/21
√	P090209	Lab Blank	34353	12	humid	200ml	1.00	LD	LD	9/2/2021	1428	LD	leg validation
√	P090210	2109005-02A	N3131	1	3.0 Hg->10 psi	200ml	1.87	gh	LD	9/2/2021	1550	gh	
√	P090211	2109005-01A	1L1906	2	4.0 Hg->10 psi	200ml	1.94	gh	LD	9/2/2021	1620	gh	
√	P090212	2109005-05A	N5643	3	6.0 Hg->10 psi	200ml	2.10	gh	LD	9/2/2021	1649	gh	
X	P090213	2109005-08A	N1448	4	4.5 Hg->10 psi	200ml	1.98	gh	LD	9/2/2021	1718	gh	possible carryover, confirm
√	P090214	2109005-03A	N6053	5	6.0 Hg->10 psi	100ml	4.20	gh	LD	9/2/2021	1747	gh	dil tc
√	P090215	2109005-06A	N2056	6	5.0 Hg->10 psi	100ml	4.03	gh	LD	9/2/2021	1816	gh	dil tc
X	P090216	2109005-07A	N3435	7	4.5 Hg->10 psi	50ml	7.91	gh	LD	9/2/2021	1844	gh	possible carryover, confirm
√	P090217	2109005-04A	N5472	8	5.0 Hg->10 psi	50ml	8.06	gh	LD	9/2/2021	1912	gh	dil tc
√	P090218	2109002-01A	O1070	9	4.5 Hg->10 psi	200ml	1.98	gh	LD	9/2/2021	1941	gh	
√	P090219	2109002-02A	N3421	10	5.5 Hg->10 psi	200ml	2.06	gh	gh	9/2/2021	2019	gh	
√	P090220	2109002-03A	N1993	11	5.5 Hg->10 psi	200ml	2.06	gh	gh	9/2/2021	2049	gh	
√	P090221	2109042-01A	1L1633	1	3.7 Hg->10.1 psi	200ml	1.92	LD	gh	9/2/2021	2230	LD	
√	P090222	2108676-01A	1L2704	2	7.0 Hg->10 psi	200ml	2.19	LD	gh	9/2/2021	2259	LD	
√	P090223	2109011A-07A	O0844	3	4.7 psi->9.9 psi	200ml	1.27	LD	gh	9/2/2021	2328	LD	
√	P090224	2109005A-08A	N1448	4	4.5 Hg->10 psi	200ml	1.98	LD	gh	9/2/2021	2358	LD	
√	P090225	2109005A-07A	N3435	7	4.5 Hg->10 psi	50ml	7.91	LD	gh	9/3/2021	0025	LD	dil matrix

CA 9/7/21

US32TAR1

Data file : /chem/msdp.i/19MAY21.b/p051901.d
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 19-MAY-2021 11:39
Operator : LD Inst ID: msdp.i
Smp Info : 200ml #3234-10;BFB;BFB
Misc Info : 36ng
Comment :
Method : /chem/msdp.i/19MAY21.b/bfb30.m
Meth Date : 18-Nov-2019 14:14 ushn Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 4 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Sample Matrix: WATER
Processing Host: us32tar1

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vf	1.00000	Volumetric correction factor
Vi	1.00000	Injection Volume

Cpnd Variable Local Compound Variable

RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
10.921	10.993	-0.072	95	186911			100.00- 100.00	100.00
10.921	10.993	-0.072	50	42709			8.00- 40.00	22.85
10.921	10.993	-0.072	75	81216			30.00- 66.00	43.45
10.921	10.993	-0.072	96	12084			5.00- 9.00	6.47
10.921	10.993	-0.072	173	1196			0.00- 1.99	0.82
10.921	10.993	-0.072	174	146453			50.01- 120.00	78.35
10.921	10.993	-0.072	175	10521			4.00- 9.00	7.18
10.921	10.993	-0.072	176	142592			93.00- 101.00	97.36
10.921	10.993	-0.072	177	9138			5.00- 9.00	6.41

Data File: /chem/msdp.i/19MAY21.b/p051901.d

Date : 19-MAY-2021 11:39

Client ID: BFB

Instrument: msdp.i

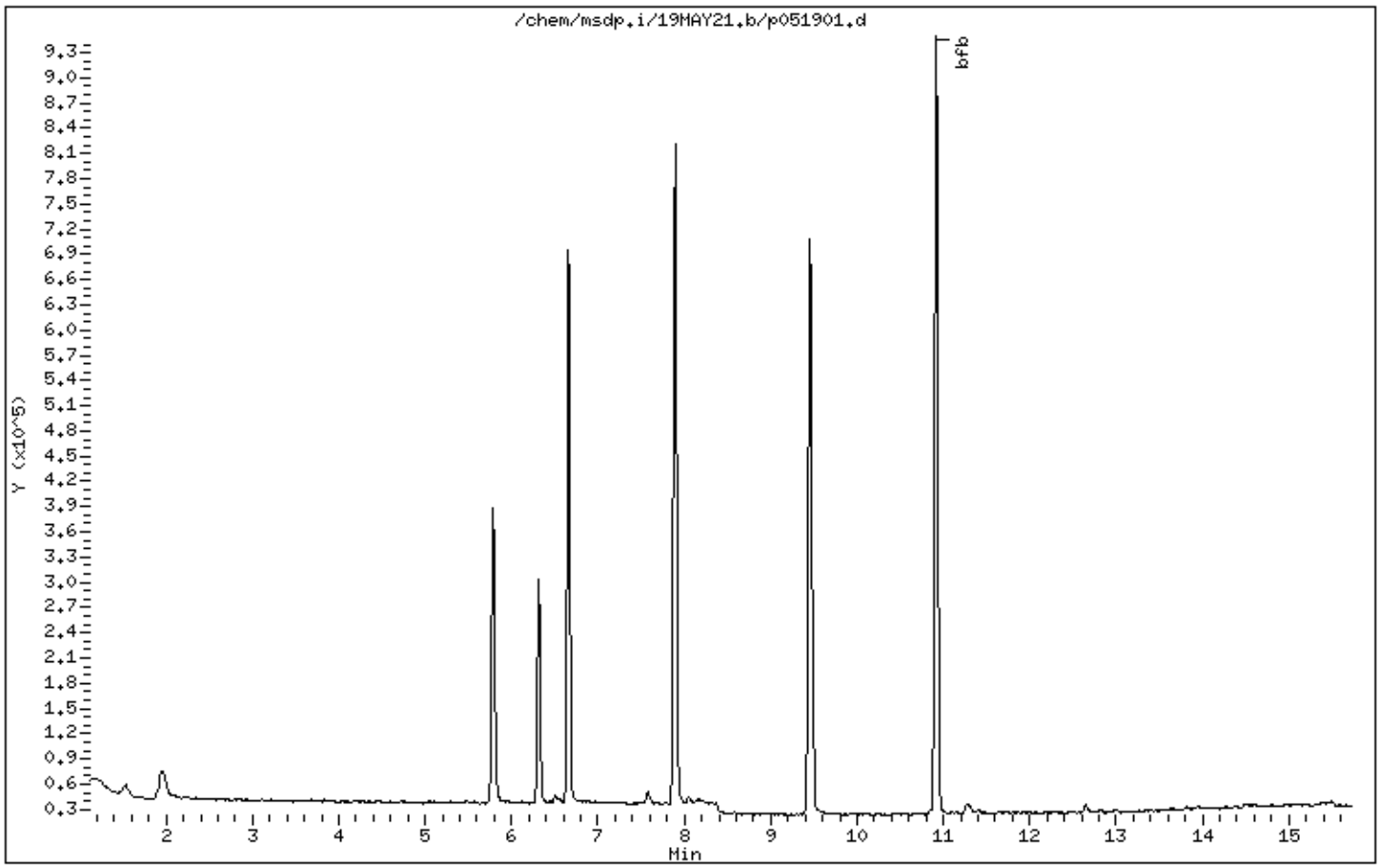
Sample Info: 200ml #3234-10;BFB;BFB

Volume Injected (uL): 1.0

Operator: LD

Column phase:

Column diameter: 2.00



Data File: /chem/msdp.i/19MAY21.b/p051901.d

Date : 19-MAY-2021 11:39

Client ID: BFB

Instrument: msdp.i

Sample Info: 200ml #3234-10;BFB;BFB

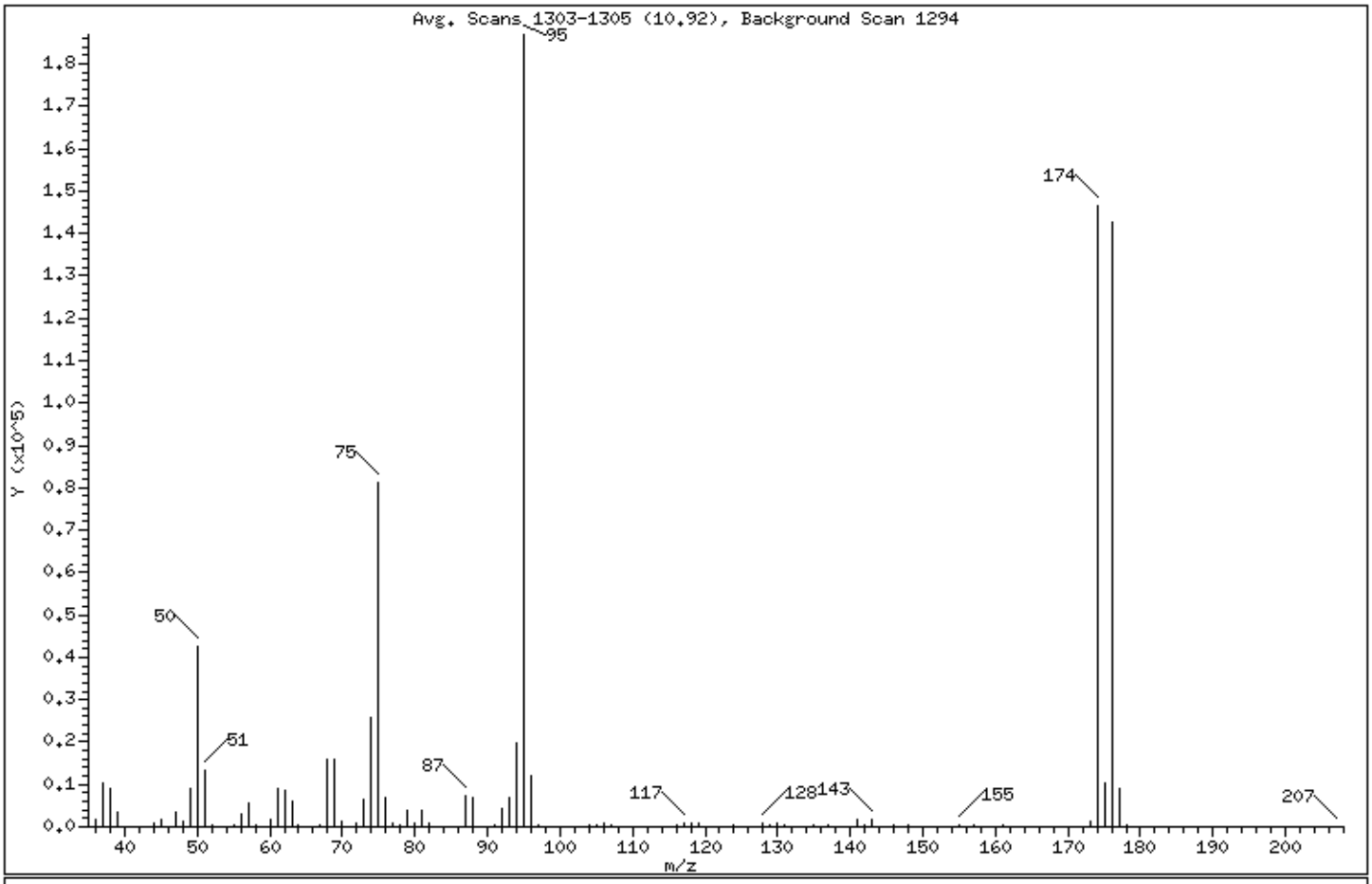
Volume Injected (uL): 1.0

Operator: LD

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	22.85
75	30.00 - 66.00% of mass 95	43.45
96	5.00 - 9.00% of mass 95	6.47
173	Less than 1.99% of mass 174	0.64 (0.82)
174	50.01 - 120.00% of mass 95	78.35
175	4.00 - 9.00% of mass 174	5.63 (7.18)
176	93.00 - 101.00% of mass 174	76.29 (97.36)
177	5.00 - 9.00% of mass 176	4.89 (6.41)

Date : 19-MAY-2021 11:39

Client ID: BFB Instrument: msdp.i

Sample Info: 200ml #3234-10;BFB;BFB

Volume Injected (uL): 1.0 Operator: LD

Column phase: Column diameter: 2.00

Data File: p051901.d
Spectrum: Avg. Scans 1303-1305 (10.92), Background Scan 1294
Location of Maximum: 95.00
Number of points: 104

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1868	70.00	1283	104.00	572	144.00	34
37.00	10229	71.00	45	105.00	269	145.00	194
38.00	8812	72.00	868	106.00	645	146.00	291
39.00	3495	73.00	6642	107.00	260	147.00	74
40.00	164	74.00	25736	110.00	56	148.00	464
44.00	917	75.00	81216	111.00	52	149.00	159
45.00	1818	76.00	7007	112.00	153	150.00	194
46.00	106	77.00	923	113.00	102	152.00	130
47.00	3380	78.00	552	115.00	151	153.00	181
48.00	1430	79.00	3744	116.00	557	154.00	159
49.00	9200	80.00	918	117.00	965	155.00	433
50.00	42704	81.00	3849	118.00	686	157.00	324
51.00	13167	82.00	684	119.00	932	159.00	214
52.00	589	83.00	51	123.00	100	161.00	241
55.00	241	85.00	29	124.00	227	165.00	33
56.00	2844	86.00	166	126.00	88	172.00	143
57.00	5428	87.00	7358	127.00	87	173.00	1196
58.00	256	88.00	6801	128.00	774	174.00	146432
59.00	71	91.00	377	129.00	295	175.00	10521
60.00	1820	92.00	4204	130.00	668	176.00	142592
61.00	9042	93.00	6703	131.00	353	177.00	9138
62.00	8617	94.00	19944	135.00	237	178.00	285
63.00	5849	95.00	186880	137.00	246	207.00	79
64.00	483	96.00	12084	140.00	173		
67.00	360	97.00	281	141.00	1745		
68.00	16023	98.00	26	142.00	230		
69.00	15790	103.00	189	143.00	1755		

US32TAR1

Data file : /chem/msdp.i/02SEP21.b/p090201.d
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 02-SEP-2021 09:15
Operator : LD Inst ID: msdp.i
Smp Info : 200ml #3234-67;BFB;BFB
Misc Info : 36ng
Comment :
Method : /chem/msdp.i/02SEP21.b/bfb30.m
Meth Date : 18-Nov-2019 14:14 ushn Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 10 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Sample Matrix: WATER
Processing Host: us32tar1

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vf	1.00000	Volumetric correction factor
Vi	1.00000	Injection Volume

Cpnd Variable Local Compound Variable

RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
10.921	10.993	-0.072	95	98725			100.00- 100.00	100.00
10.921	10.993	-0.072	50	30402			8.00- 40.00	30.79
10.921	10.993	-0.072	75	48962			30.00- 66.00	49.59
10.921	10.993	-0.072	96	5875			5.00- 9.00	5.95
10.921	10.993	-0.072	173	1176			0.00- 1.99	1.37
10.921	10.993	-0.072	174	86074			50.01- 120.00	87.19
10.921	10.993	-0.072	175	6349			4.00- 9.00	7.38
10.921	10.993	-0.072	176	83144			93.00- 101.00	96.60
10.921	10.993	-0.072	177	5113			5.00- 9.00	6.15

Data File: /chem/msdp.i/02SEP21.b/p090201.d

Page 1

Date : 02-SEP-2021 09:15

Client ID: BFB

Instrument: msdp.i

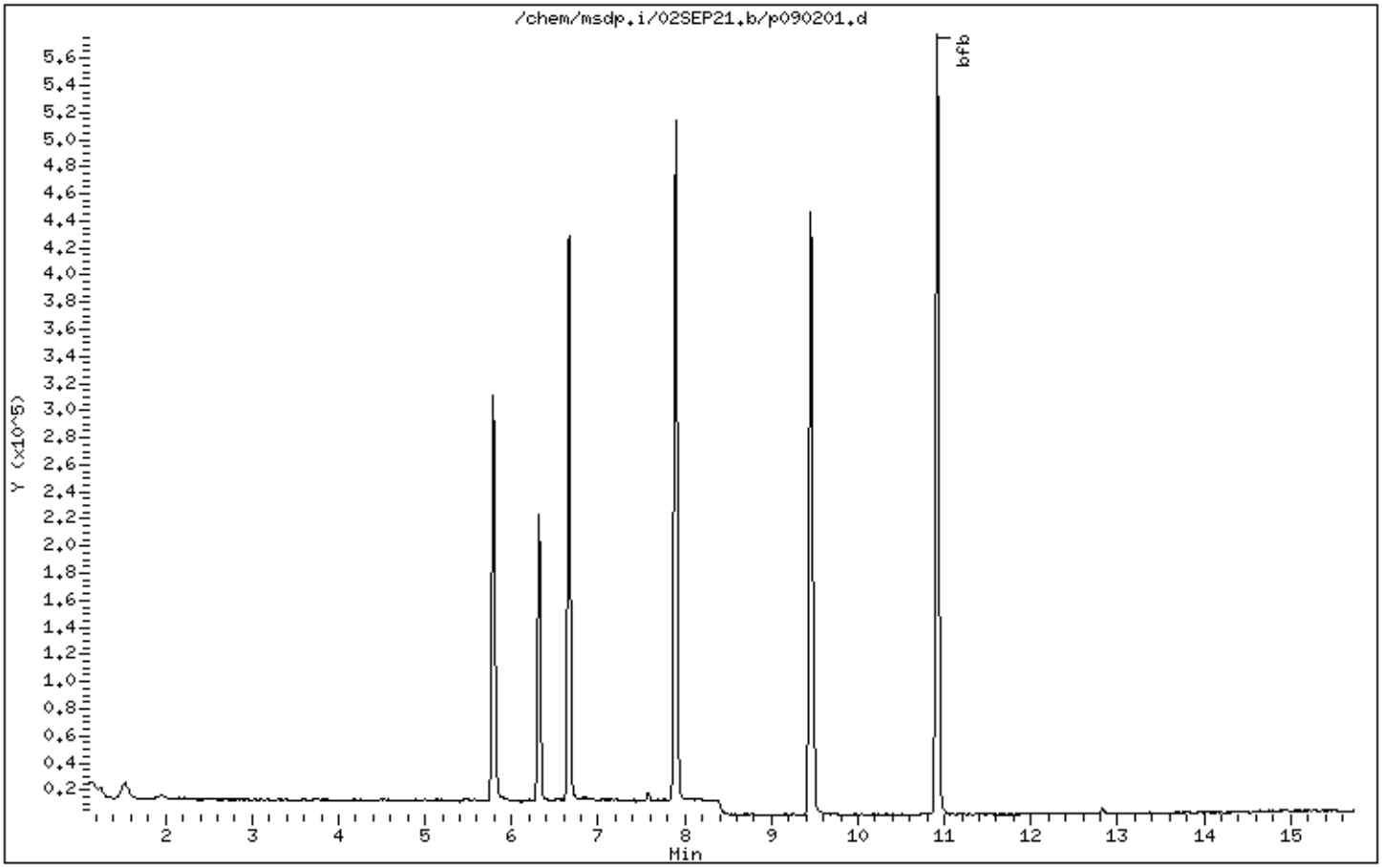
Sample Info: 200ml #3234-67;BFB;BFB

Volume Injected (uL): 1.0

Operator: LD

Column phase:

Column diameter: 2.00



Data File: /chem/msdp.i/02SEP21.b/p090201.d

Date : 02-SEP-2021 09:15

Client ID: BFB

Instrument: msdp.i

Sample Info: 200ml #3234-67;BFB;BFB

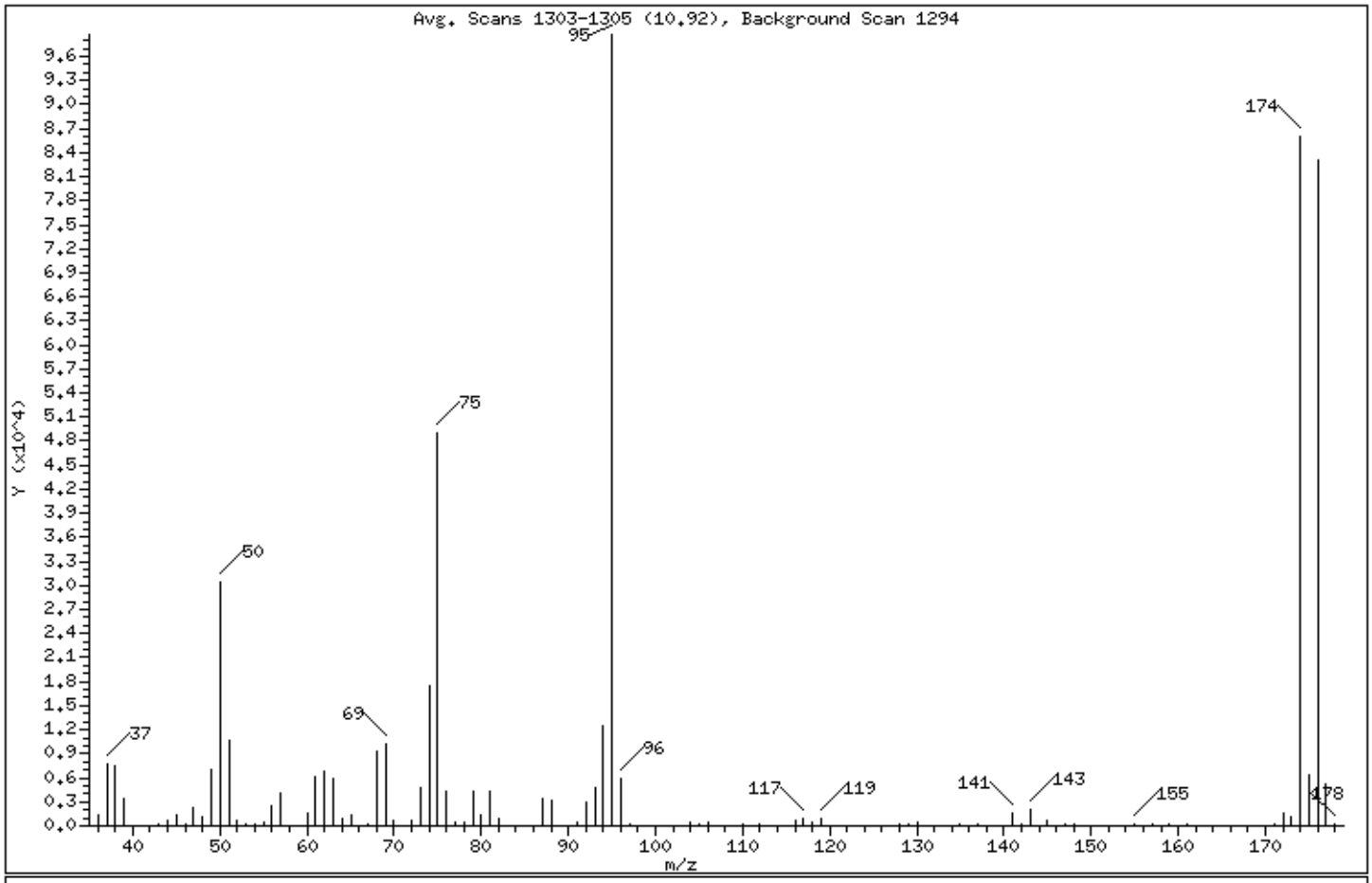
Volume Injected (uL): 1.0

Operator: LD

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	30.79
75	30.00 - 66.00% of mass 95	49.59
96	5.00 - 9.00% of mass 95	5.95
173	Less than 1.99% of mass 174	1.19 (1.37)
174	50.01 - 120.00% of mass 95	87.19
175	4.00 - 9.00% of mass 174	6.43 (7.38)
176	93.00 - 101.00% of mass 174	84.22 (96.60)
177	5.00 - 9.00% of mass 176	5.18 (6.15)

Date : 02-SEP-2021 09:15

Client ID: BFB Instrument: msdp.i

Sample Info: 200ml #3234-67;BFB;BFB

Volume Injected (uL): 1.0 Operator: LD

Column phase: Column diameter: 2.00

Data File: p090201.d
Spectrum: Avg. Scans 1303-1305 (10.92), Background Scan 1294
Location of Maximum: 95.00
Number of points: 91

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1362	61.00	6229	91.00	473	137.00	201
37.00	7736	62.00	6715	92.00	3027	141.00	1578
38.00	7455	63.00	5800	93.00	4734	142.00	208
39.00	3381	64.00	1009	94.00	12525	143.00	2092
40.00	11	65.00	1257	95.00	98720	144.00	78
41.00	68	67.00	331	96.00	5875	145.00	728
43.00	151	68.00	9384	97.00	250	146.00	113
44.00	734	69.00	10216	104.00	486	147.00	150
45.00	1282	70.00	782	105.00	130	148.00	242
46.00	246	72.00	645	106.00	461	150.00	36
47.00	2341	73.00	4832	107.00	34	155.00	258
48.00	1091	74.00	17408	110.00	180	157.00	184
49.00	6975	75.00	48960	111.00	75	159.00	134
50.00	30400	76.00	4424	112.00	132	161.00	166
51.00	10691	77.00	440	116.00	643	171.00	184
52.00	695	78.00	358	117.00	985	172.00	1592
53.00	290	79.00	4403	118.00	467	173.00	1176
54.00	194	80.00	1290	119.00	910	174.00	86072
55.00	503	81.00	4309	128.00	333	175.00	6349
56.00	2609	82.00	931	129.00	219	176.00	83144
57.00	4081	83.00	78	130.00	497	177.00	5113
58.00	33	87.00	3481	131.00	36	178.00	153
60.00	1504	88.00	3150	135.00	276		

US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/02SEP21.b/p090205.d
Lab Smp Id: CCV Client Smp ID: CCV
Inj Date : 02-SEP-2021 11:41
Operator : LD Inst ID: msdp.i
Smp Info : 50mL 3018-2127
Misc Info : 50ppbv (200ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/02SEP21.b/p21q0519a.m
Meth Date : 02-Sep-2021 12:00 lk8g Quant Type: ISTD
Cal Date : 19-MAY-2021 19:45 Cal File: p051915.d
Als bottle: 11 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT20spCCV.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 90 Bromochloromethane					CAS #: 74-97-5		
5.778	5.778 (1.000)	130	132824	25.0000		80.00- 120.00	100.00
5.778	5.778 (1.000)	128	104355			48.23- 108.23	78.57
5.778	5.778 (1.000)	49	292100			150.57- 210.57	219.91
* 108 1,4-Difluorobenzene					CAS #: 540-36-3		
6.666	6.666 (1.000)	114	469419	25.0000		80.00- 120.00	100.00
6.666	6.666 (1.000)	88	64537			0.00- 45.71	13.75
* 153 Chlorobenzene-d5					CAS #: 3114-55-4		
9.460	9.460 (1.000)	117	454122	25.0000		80.00- 120.00	100.00
9.460	9.460 (1.000)	82	234445			23.78- 83.78	51.63
$ 104 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
6.308	6.308 (1.092)	65	200395	25.0000	27.338	80.00- 120.00	100.00
6.315	6.315 (1.093)	67	91470			27.21- 87.21	45.64
$ 134 Toluene-d8					CAS #: 2037-26-5		
7.891	7.891 (1.184)	98	486618	25.0000	23.872	80.00- 120.00	100.00
7.891	7.891 (1.184)	70	51169			0.00- 40.44	10.52

				AMOUNTS				
					CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE		(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========		=======	=======	==========	=====
$ 134 Toluene-d8 (continued)								
7.891	7.891 (1.184)	100	313320				34.95- 94.95	64.39
$ 170 4-Bromofluorobenzene						CAS #: 460-00-4		
10.921	10.921 (1.154)	174	315654		25.0000	27.068	80.00- 120.00	100.00
10.914	10.914 (1.154)	95	363063				95.92- 155.92	115.02
10.921	10.921 (1.154)	176	305921				66.89- 126.89	96.92
3 Freon 143a						CAS #: 420-46-2		
1.591	1.591 (0.275)	65	183146		50.0000	71.359	80.00- 120.00	100.00
1.591	1.591 (0.275)	69	336626				243.50- 303.50	183.80
1.591	1.591 (0.275)	64	41570				0.00- 54.06	22.70
6 Propane						CAS #: 74-98-6		
1.689	1.689 (0.292)	43	126562		50.0000	53.826	80.00- 120.00	100.00
1.675	1.675 (0.290)	39	81717				34.98- 94.98	64.57
1.675	1.675 (0.290)	41	71920				25.22- 85.22	56.83
13 Freon 142b						CAS #: 75-68-3		
1.898	1.898 (0.329)	65	792069		50.0000	61.026	80.00- 120.00	100.00
1.884	1.884 (0.326)	45	235902				0.00- 59.77	29.78
36 1-Pentene						CAS #: 109-67-1		
2.906	2.906 (0.503)	55	383270		50.0000	45.121	80.00- 120.00	100.00
2.906	2.906 (0.503)	42	568641				105.17- 165.17	148.37
40 Freon 123a						CAS #: 354-23-4		
3.386	3.386 (0.586)	117	367744		50.0000	44.252	80.00- 120.00	100.00
3.386	3.386 (0.586)	67	449390				104.69- 164.69	122.20
41 Freon 123						CAS #: 306-83-2		
3.479	3.479 (0.602)	83	494165		50.0000	41.851	80.00- 120.00	100.00
3.479	3.479 (0.602)	133	132365				0.00- 50.87	26.79
3.479	3.479 (0.602)	85	333136				36.08- 96.08	67.41
55 Cyclopentene						CAS #: 142-29-0		
4.073	4.073 (0.705)	67	488485		50.0000	38.449	80.00- 120.00	100.00
4.073	4.073 (0.705)	68	180972				6.76- 66.76	37.05
4.073	4.073 (0.705)	53	183856				0.00- 57.54	37.64
56 Methyl Acetate						CAS #: 79-20-9		
4.073	4.073 (0.705)	43	886102		50.0000	59.641	80.00- 120.00	100.00
4.080	4.080 (0.706)	74	85245				0.00- 44.13	9.62
74 Chloroprene						CAS #: 126-99-8		
5.019	5.019 (0.869)	53	654241		50.0000	55.130	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
74 Chloroprene (continued)							
5.019	5.019 (0.869)	88	194779			9.21- 69.21	29.77
5.019	5.019 (0.869)	50	169220			0.00- 54.25	25.87
75 1-Propanol					CAS #: 71-23-8		
5.083	5.083 (0.880)	59	78239	50.0000	44.590	80.00- 120.00	100.00
5.083	5.083 (0.880)	42	85399			63.23- 123.23	109.15
5.083	5.083 (0.880)	41	54098			24.74- 84.74	69.15
88 Methyl Acrylate					CAS #: 96-33-3		
5.621	5.621 (0.973)	55	831200	50.0000	53.319	80.00- 120.00	100.00
5.621	5.621 (0.973)	85	74075			0.00- 41.28	8.91
5.621	5.621 (0.973)	58	62635			0.00- 38.22	7.54
103 Isobutanol					CAS #: 78-83-1		
6.244	6.244 (1.081)	39	105289	50.0000	55.982	80.00- 120.00	100.00
6.244	6.244 (1.081)	43	472350			448.18- 508.18	448.62
6.244	6.244 (1.081)	41	330345			299.99- 359.99	313.75
113 Ethyl acrylate					CAS #: 140-88-5		
6.946	6.946 (0.734)	99	48726	50.0000	46.490	80.00- 120.00	100.00
6.939	6.939 (0.733)	45	114963			149.95- 209.95	235.93
6.939	6.939 (0.733)	55	1118784			1849.07-1909.07	2296.03
115 2-Pentanone					CAS #: 107-87-9		
7.032	7.032 (0.743)	43	1511850	50.0000	65.573	80.00- 120.00	100.00
7.032	7.032 (0.743)	58	96646			0.00- 37.44	6.39
7.032	7.032 (0.743)	86	141740			0.00- 42.78	9.38
145 Butyl Acetate					CAS #: 123-86-4		
8.665	8.665 (1.300)	56	615490	50.0000	52.054	80.00- 120.00	100.00
8.665	8.665 (1.300)	73	145442			0.00- 59.10	23.63
8.665	8.665 (1.300)	43	1756102			215.30- 275.30	285.32
157 1,1,1,2-Tetrachloroethane					CAS #: 630-20-6		
9.596	9.596 (1.014)	131	570038	50.0000	56.461	80.00- 120.00	100.00
9.460	9.460 (1.000)	117	454122			57.42- 117.42	79.67
9.596	9.596 (1.014)	95	206451			5.70- 65.70	36.22
166 2-Heptanone					CAS #: 110-43-0		
10.362	10.362 (1.793)	58	888678	50.0000	45.567	80.00- 120.00	100.00
10.362	10.362 (1.793)	43	1744151			136.03- 196.03	196.26
172 D-Limonene					CAS #: 5989-27-5		
12.089	12.089 (1.278)	68	538272	50.0000	52.488	80.00- 120.00	100.00
12.089	12.089 (1.278)	93	408816			39.41- 99.41	75.95

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
186 4-Chlorotoluene					CAS #: 106-43-4		
11.444	11.444 (1.210)	126	508145	50.0000	54.639	80.00- 120.00	100.00
11.444	11.444 (1.210)	91	1525035			295.02- 355.02	300.12
11.444	11.444 (1.210)	63	238403			11.82- 71.82	46.92
197 1,2,3-Trimethylbenzene					CAS #: 526-73-8		
12.318	12.318 (1.302)	120	707787	50.0000	52.270	80.00- 120.00	100.00
12.318	12.318 (1.302)	105	1535750			192.40- 252.40	216.98
12.318	12.318 (1.302)	77	167749			0.00- 54.69	23.70
205 Hexachloroethane					CAS #: 67-72-1		
12.970	12.970 (1.371)	201	327924	50.0000	61.600	80.00- 120.00	100.00
12.970	12.970 (1.371)	117	425415			102.99- 162.99	129.73
208 1,3,5-Trichlorobenzene					CAS #: 108-70-3		
13.765	13.765 (1.455)	180	992481	50.0000	52.134	80.00- 120.00	100.00
13.765	13.765 (1.455)	182	953531			65.24- 125.24	96.08
210 alpha-Pinene					CAS #: 80-56-8		
10.599	10.599 (1.120)	93	970848	50.0000	51.683	80.00- 120.00	100.00
10.599	10.599 (1.120)	77	294537			0.00- 58.21	30.34
214 beta-Pinene					CAS #: 127-91-3		
11.423	11.423 (1.207)	93	708213	50.0000	57.585	80.00- 120.00	100.00
11.444	11.444 (1.210)	91	1525035			153.57- 213.57	215.34

US32TAR1

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msdp.i Injection Date: 02-SEP-2021 11:41
Lab File ID: p090205.d Init. Cal. Date(s): 19-MAY-2021 20-MAY-2021
Analysis Type: AIR Init. Cal. Times: 14:02 00:05
Lab Sample ID: CCV Quant Type: ISTD
Method: /chem/msdp.i/02SEP21.b/p21q0519a.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
$ 104 1,2-Dichloroethane-d4	1.37968	1.50872	0.010	-9.35258	30.00000	Averaged	
$ 134 Toluene-d8	1.08560	1.03664	0.010	4.50985	30.00000	Averaged	
$ 170 4-Bromofluorobenzene	0.64197	0.69509	0.010	-8.27357	30.00000	Averaged	
3 Freon 143a	0.48307	0.68943	0.010	-42.71763	30.00000	Averaged	<-
6 Propane	0.44256	0.47643	0.010	-7.65278	30.00000	Averaged	
13 Freon 142b	2.44292	2.98163	0.010	-22.05215	30.00000	Averaged	
36 1-Pentene	1.59878	1.44277	0.010	9.75840	30.00000	Averaged	
40 Freon 123a	1.56413	1.38432	0.010	11.49556	30.00000	Averaged	
41 Freon 123	2.22241	1.86022	0.010	16.29726	30.00000	Averaged	
55 Cyclopentene	2.39124	1.83884	0.010	23.10113	30.00000	Averaged	
56 Methyl Acetate	2.79640	3.33561	0.010	-19.28236	30.00000	Averaged	
74 Chloroprene	2.23364	2.46280	0.010	-10.25939	30.00000	Averaged	
75 1-Propanol	0.33025	0.29452	0.010	10.82001	30.00000	Averaged	
88 Methyl Acrylate	2.93415	3.12894	0.010	-6.63866	30.00000	Averaged	
103 Isobutanol	0.35400	0.39635	0.010	-11.96311	30.00000	Averaged	
113 Ethyl acrylate	0.05770	0.05365	0.010	7.02059	30.00000	Averaged	
115 2-Pentanone	1.26926	1.66458	0.010	-31.14548	30.00000	Averaged	<-
145 Butyl Acetate	0.62971	0.65559	0.010	-4.10891	30.00000	Averaged	
157 1,1,1,2-Tetrachloroethane	0.55580	0.62763	0.010	-12.92248	30.00000	Averaged	
166 2-Heptanone	3.67076	3.34531	0.010	8.86614	30.00000	Averaged	
172 D-Limonene	0.56456	0.59265	0.010	-4.97640	30.00000	Averaged	
186 4-Chlorotoluene	0.51198	0.55948	0.010	-9.27762	30.00000	Averaged	
197 1,2,3-Trimethylbenzene	0.74544	0.77929	0.010	-4.54085	30.00000	Averaged	
205 Hexachloroethane	0.29306	0.36105	0.010	-23.19931	30.00000	Averaged	
208 1,3,5-Trichlorobenzene	1.04801	1.09275	0.010	-4.26897	30.00000	Averaged	
210 alpha-Pinene	1.03411	1.06893	0.010	-3.36664	30.00000	Averaged	
214 beta-Pinene	0.67705	0.77976	0.010	-15.16996	30.00000	Averaged	

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p090205.d
Lab Smp Id: CCV
Analysis Type: VOA
Quant Type: ISTD
Operator: LD
Method File: /chem/msdp.i/02SEP21.b/p21q0519a.m
Misc Info: 50ppbv (200ppbv)

Calibration Date: 02-SEP-2021
Calibration Time: 09:55
Client Smp ID: CCV
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	111368	66821	155915	132824	19.27
108 1,4-Difluorobenze	392899	235739	550059	469419	19.48
153 Chlorobenzene-d5	382253	229352	535154	454122	18.80

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.78	5.45	6.11	5.78	0.00
108 1,4-Difluorobenze	6.66	6.33	6.99	6.67	0.11
153 Chlorobenzene-d5	9.46	9.13	9.79	9.46	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msdp.i/02SEP21.b/p090205.d

Date : 02-SEP-2021 11:41

Client ID: CCV

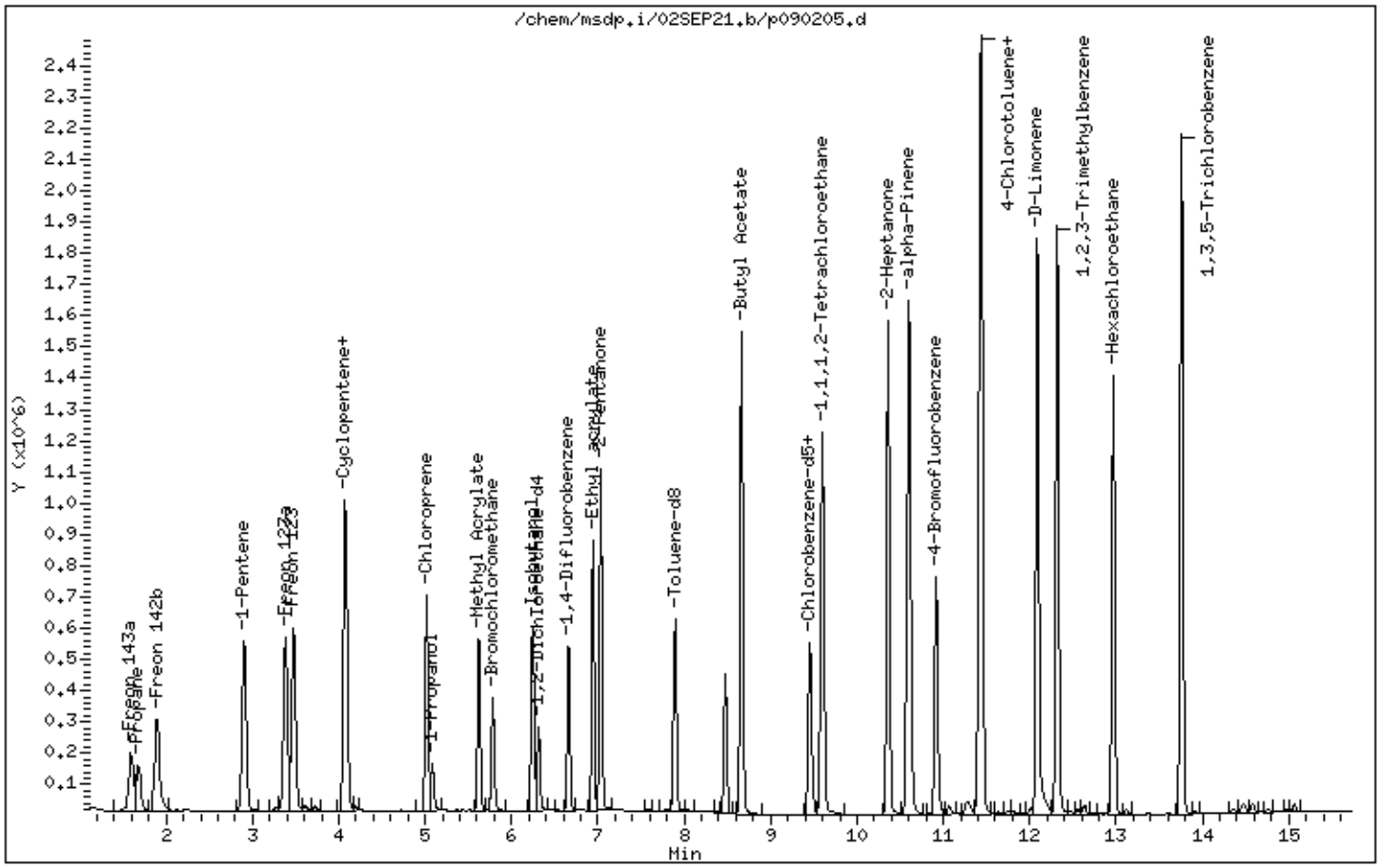
Instrument: msdp.i

Sample Info: 50mL 3018-2127

Operator: LD

Column phase: RTX-624

Column diameter: 0.25



Shipping/Receiving Documents

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Eurofins Air Toxics, Inc. Sample Receipt Confirmation Cover Page

Thank you for choosing Eurofins Air Toxics, Inc. (EATL). We have received your samples and have listed any Sample Receipt Descrepancies below.

In order to expedite analysis and reporting, please review the attached information for accuracy.

For corrections call: **Air Toxics, Ltd. at 916-985-1000**

EATL will proceed with the analysis as specified on the Chain of Custody (COC) and Sample Receipt Summary page.

Please note : The Sample Receipt Confirmation, including the total workorder charge, is subject to change upon secondary review. Our aim is to provide a confirmation to you in a timely manner. Sample Receipt Discrepancies, if any, may not include discrepancies regarding sample receipt pressure(s). Additionally, the COC will be provided with the final report.

Sample SG-VW21A-06 was placed on hold at your request.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630

(916) 985-1000 .FAX (916) 985-1020
Hours 6:30 A.M to 5:30 P.M. PST

eurofins | Air Toxics

Analysis Request /Canister Chain of Custody

For Laboratory Use Only

PID: _____ Workorder #: 2108676

180 Blue Ravine Rd. Suite B, Folsom, CA 95630
Phone (800) 985-5955; Fax (916) 351-8279

Client: AECOM
Project Name: SMUD 59th St
Project Manager: Andy Shepard Project # 60632793.6
Sampler: Jason Brown
Site Name:

Special Instructions/Notes:
SG-VW21A-01 ON HOLD pending results of SG-VW21A-05

Turnaround Time (Rush surcharges may apply)
Standard 5 day TAT Rush _____ (specify)

Lab ID	Field Sample Identification(Location)	Can #	Flow Controller #	Start Sampling Information		Stop Sampling Information		Canister Vacuum/Pressure		Lab Use Only		Requested Analyses			
				Date	Time	Date	Time	Initial (in Hg)	Final (in Hg)	Receipt	Final (psig) Gas: N_2 / He	TO-15			ON HOLD
01A	SG-VW21A-05	1L2704	13491	8/30/21	1040	8/30/21	1059	-30	-5			X			
	SG-VW21A-06	1L2444	2121	8/30/21	1101	8/30/21	1115	-30	-5			X			X

	Date	Time		Date	Time
Relinquished by: (Signature/Affiliation)	8/30/21	1155	Received by: (Signature/Affiliation)	8.30.21	1155
Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time
Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time

Lab Use Only

Shipper Name: FED Custody Seals Intact? Yes No None

Sample Transportation Notice: Relinquishing signature on this document indicates that samples are shipped in compliance with all applicable local, State, Federal, and international laws, regulations, and ordinances of any kind. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Eurofins Air Toxics against any claim, demand, or action, of any kind, related to the collection, handling, of shipping of samples. D.O.T Hotline (800) 467-4922

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SAMPLE RECEIPT SUMMARY

WORKORDER 2108676A

Client

Mr. Robert Kohlhardt
AECOM
2020 L Street, Suite 400
Sacramento, CA 95811

Phone

916-679-2000

Fax

916-679-2900

Sales Rep: DaV

Date Promised: 09/07/21 5:00 pm
Date Completed:
Date Received: 8/30/21
PO#:
Project#: 60132793.6 SMUD 59th St

Total $: $ 253.50
Logged By: CH

Fraction	Sample #	Analysis	Collected	Amount$
01A	SG-VW21A-05	TO-15	8/30/2021	$172.50

Misc. Charges	1 Liter Summa Canister (2) @ $20.00 each., Shipment 140902	$40.00
	EATL Flow controller (2) @ $15.00 each., Shipment 140902	$30.00
	eCVP (1) @ $3.00 each.	$3.00
	Fitting w/ Pink Ferrule (2) @ $4.00 each.	$8.00

Note: Samples received after 3 P.M. PST are considered to be received on the following work day.
Atlas Project Name/Profile#: SMUD 59th Street Corporation Yard/25677

BILL TO: Mr. Jerry Montgomery
SWPPQueen
7202 Gloria Drive #25
Sacramento, CA 95831

Analysis Code: TO-14A

REMARKS: A 15% surcharge is applied for a 5 day turnaround time.

TERMS:

Reporting Method: TO-15 (Sp)-AECOM (SMUD 59th alphanumeric)

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SAMPLE RECEIPT SUMMARY

WORKORDER 2108676B

Client

Mr. Robert Kohlhardt
AECOM
2020 L Street, Suite 400
Sacramento, CA 95811

Phone

916-679-2000

Fax

916-679-2900

Sales Rep: DaV

Date Promised: 09/07/21 5:00 pm
Date Completed:
Date Received: 8/30/21
PO#:
Project#: 60132793.6 SMUD 59th St

Total $: $ 5.00
Logged By: CH

Fraction	Sample #	Analysis	Collected	Amount$
02A(on hold)	SG-VW21A-06	TO-15	8/30/2021	$0.00
Misc. Charges	eCVP (1) @ $5.00 each.			$5.00

Note: Samples received after 3 P.M. PST are considered to be received on the following work day.
Atlas Project Name/Profile#: SMUD 59th Street Corporation Yard/25677

BILL TO: Mr. Jerry Montgomery
SWPPQueen
7202 Gloria Drive #25
Sacramento, CA 95831

Analysis Code: TO-14A

REMARKS: A 15% surcharge is applied for a 5 day turnaround time.

TERMS:

Reporting Method: TO-15 (Sp)-AECOM (SMUD 59th alphanumeric)

Other Records

Air Toxics Ltd.

File Results

Data File: File Information: p090222.d
Sample #: 2108676A-01A
Client ID:
Spike Level: 0
Dilution Factor: 2.19

Compound	Amount (ppbv)	(Area - Blank Area)/ RF * DF
TNMOC (Ref. to Gasolin	100	(8975621.30465151 - 6626458.1476672 / 49033)

Air Toxics Ltd.

List of Selected Compounds

Data File: File Information: p090222.d
Sample #: 2108676A-01A
Client ID:
Spike Level: 0
Dilution Factor: 2.19

Compounds	RT	Peak Area	10
Unknown Peak 1.2547	1.255	61461	
Unknown Peak 1.5066	1.507	2793286	
1,1-Difluoroethane	1.716	2032578	
Unknown Peak 1.8844	1.884	81958	
Unknown Peak 2.0318	2.032	74987	
Unknown Peak 2.2395	2.240	48051	
Freon 11	2.891	15431	
Ethanol	3.250	117228	
Acetone	3.729	19084	
Carbon Disulfide	3.837	68531	
2-Propanol	3.901	38215	
Unknown Peak 4.1234	4.123	27761	
Unknown Peak 4.3956	4.396	48018	
Hexane	4.696	385800	
Unknown Peak 5.3268	5.327	72435	
2-Butanone (Methyl Ethyl Ketone)	5.563	33182	
Tetrahydrofuran	5.785	2250	
Bromochloromethane	5.785	971712	
Chloroform	5.843	8890	
1,1,1-Trichloroethane	5.971	38295	
Benzene	6.301	5952	
1,2-Dichloroethane-d4	6.315	563994	
1,4-Difluorobenzene	6.659	1085371	
Trichloroethene	6.867	80372	
Unknown Peak 6.9671	6.967	12955	
Unknown Peak 7.1247	7.125	26371	
Unknown Peak 7.576	7.576	27346	
Toluene-d8	7.891	1293272	
Toluene	7.948	104269	
Unknown Peak 8.3782	8.378	12847	
Tetrachloroethene	8.464	681467	
2-Hexanone	8.586	53671	
Unknown Peak 8.7579	8.758	63595	
Unknown Peak 8.9083	8.908	38634	
Unknown Peak 9.2163	9.216	33501	
Chlorobenzene-d5	9.460	1448237	
Ethyl Benzene	9.567	34001	
m,p-Xylene	9.711	69845	
Unknown Peak 10.075	10.076	21871	
o-Xylene	10.233	27082	
Unknown Peak 10.376	10.377	18279	
Unknown Peak 10.498	10.499	29839	
Unknown Peak 10.598	10.599	41569	
4-Bromofluorobenzene	10.921	1780530	
Unknown Peak 11.021	11.021	27212	
Propylbenzene	11.150	12908	
4-Ethyltoluene	11.251	85693	
1,3,5-Trimethylbenzene	11.358	28374	
Unknown Peak 11.415	11.415	30396	
Unknown Peak 11.615	11.616	58678	
1,2,4-Trimethylbenzene	11.817	78450	
Unknown Peak 11.931	11.931	16006	

Air Toxics Ltd.

List of Selected Compounds

Data File: File Information: p090222.d
Sample #: 2108676A-01A
Client ID:
Spike Level: 0
Dilution Factor: 2.19

Compounds	RT	Peak Area	10
☑ Unknown Peak 12.088	12.089	54464	☐
☑ Unknown Peak 12.153	12.153	69110	☐
☑ Unknown Peak 12.317	12.318	41936	☐
☑ Unknown Peak 12.454	12.454	21320	☐
☑ Unknown Peak 12.532	12.533	11523	☐
☐ Unknown Peak 12.604	12.604	41521	☐
☐ Unknown Peak 12.812	12.812	21050	☐
☐ Unknown Peak 12.905	12.905	14539	☐
☐ Unknown Peak 12.984	12.984	105811	☐
☐ Unknown Peak 13.163	13.163	12454	☐
☐ Unknown Peak 13.313	13.314	11561	☐
☐ Unknown Peak 13.363	13.364	68081	☐
☐ Unknown Peak 13.471	13.471	14290	☐
☐ Unknown Peak 13.528	13.528	67327	☐
☐ Unknown Peak 13.628	13.629	14620	☐
☐ Unknown Peak 13.736	13.736	10375	☐
☐ Unknown Peak 13.793	13.794	16082	☐
☐ Unknown Peak 13.965	13.965	24728	☐
☐ Unknown Peak 14.130	14.130	15974	☐
☐ Unknown Peak 14.230	14.230	15300	☐
☐ Unknown Peak 14.509	14.510	27215	☐
☐ Unknown Peak 14.731	14.732	36695	☐
☐ Unknown Peak 14.910	14.911	14654	☐
☐ Unknown Peak 15.154	15.155	25981	☐
☐ Unknown Peak 15.269	15.269	32340	☐
☐ Unknown Peak 15.340	15.341	17073	☐
☐ Unknown Peak 15.455	15.455	17336	☐

Air Toxics Ltd.

Curve Response Factors
p090206.d

Compound	Ave. RF	% RSD
TPH	49033	0.0011

LO 9/2/2

Air Toxics Ltd.

File Response Factors

Data File: p090206.d
Sample #: 3234-83
Client ID: Calib
Spike Level: 500
Dilution Factor: 1

Compound	RF	RT
TPH	49033.52763698	0

Air Toxics Ltd.

List of Selected Compounds

Data File: p090206.d
Sample #: 3234-83
Client ID: Calib
Spike Level: 500
Dilution Factor: 1

	Compounds	% Area	RT	Peak Area	10
☑	Unknown Peak 1.5345	0.29	1.535	95267	
☑	Butane	0.56	2.025	186259	
☑	Unknown Peak 2.2394	0.05	2.239	16586	
☑	Isopentane	3.22	2.633	1073397	
☑	Unknown Peak 2.9700	1.15	2.970	382533	
☑	Unknown Peak 3.1706	0.17	3.171	57860	
☑	Ethanol	1.48	3.242	492151	
☑	Unknown Peak 3.3926	0.37	3.393	123768	
☑	Unknown Peak 3.5287	0.14	3.529	47375	
☑	Unknown Peak 4.0803	1.54	4.080	511939	
☑	Unknown Peak 4.1089	1.39	4.109	463510	
☑	Unknown Peak 4.4026	0.65	4.403	216182	
☑	Unknown Peak 4.6175	0.08	4.618	26182	
☑	Hexane	0.73	4.696	242017	
☑	Unknown Peak 4.8181	0.07	4.818	22641	
☑	Unknown Peak 4.8826	0.10	4.883	33155	
☑	Unknown Peak 4.9112	0.12	4.911	39255	
☑	Unknown Peak 5.0043	0.05	5.004	17635	
☑	Unknown Peak 5.0831	0.09	5.083	28659	
☑	Unknown Peak 5.2264	1.34	5.226	447727	
☑	Unknown Peak 5.3267	0.56	5.327	185439	
☑	Unknown Peak 5.384	0.08	5.384	24982	
☑	Bromochloromethane	2.82	5.778	938990	
☑	Tetrahydrofuran	0.63	5.893	211207	
☑	Cyclohexane	1.55	5.964	515518	
☑	Unknown Peak 6.0573	0.71	6.057	237317	
☐	2,2,4-Trimethylpentane	6.39	6.287	2128482	
☐	Benzene	0.07	6.301	22807	
☑	1,2-Dichloroethane-d4	16.70	6.315	5558967	
☑	Heptane	0.82	6.451	274620	
☑	Unknown Peak 6.5945	0.26	6.595	86148	
☑	1,4-Difluorobenzene	3.76	6.666	1251224	
☑	Unknown Peak 6.7808	0.12	6.781	40917	
☑	Unknown Peak 6.8166	0.10	6.817	33253	
☑	Unknown Peak 6.9383	1.38	6.938	460672	
☑	Methylcyclohexane	2.24	6.974	744898	
☑	Unknown Peak 7.053	0.89	7.053	297819	
☑	Unknown Peak 7.1246	0.19	7.125	62766	
☑	Unknown Peak 7.1676	0.15	7.168	49128	
☑	Bromodichloromethane	4.71	7.304	1569650	
☑	Unknown Peak 7.4111	7.18	7.411	2390582	
☑	Unknown Peak 7.5759	0.87	7.576	290281	
☑	4-Methyl-2-pentanone	1.85	7.705	616091	
☑	Unknown Peak 7.7979	0.34	7.798	114142	
☑	Toluene-d8	4.47	7.891	1487627	
☑	Toluene	4.13	7.948	1374914	
☑	Unknown Peak 8.0343	0.30	8.034	101505	
☑	Unknown Peak 8.1489	0.23	8.149	75605	
☑	Unknown Peak 8.2420	0.65	8.242	216518	
☑	Unknown Peak 8.3853	0.15	8.385	48282	
☑	Unknown Peak 8.5142	0.10	8.514	33292	
☑	Unknown Peak 8.7219	0.06	8.722	19509	

Air Toxics Ltd.

List of Selected Compounds

Data File: p090206.d
Sample #: 3234-83
Client ID: Calib
Spike Level: 500
Dilution Factor: 1

	Compounds	% Area	RT	Peak Area	10
✓	Unknown Peak 8.8939	0.04	8.894	13107	
✓	Unknown Peak 8.9726	0.11	8.973	35956	
✓	Unknown Peak 9.1159	0.08	9.116	25286	
✓	Unknown Peak 9.2305	0.06	9.231	19608	
✓	Unknown Peak 9.3666	0.08	9.367	27740	
✓	Chlorobenzene-d5	4.52	9.460	1506340	
✓	Ethyl Benzene	0.79	9.567	263642	
✓	m,p-Xylene	2.51	9.710	834933	
✓	Unknown Peak 9.9468	0.04	9.947	14398	
✓	o-Xylene	0.86	10.226	284807	
✓	Cumene	0.23	10.649	77947	
✓	Unknown Peak 10.734	0.25	10.735	82193	
✓	4-Bromofluorobenzene	5.65	10.921	1881657	
✓	Propylbenzene	0.16	11.150	51720	
✓	4-Ethyltoluene	1.32	11.258	439144	
✓	1,3,5-Trimethylbenzene	0.38	11.358	126053	
✓	Unknown Peak 11.623	0.51	11.623	170259	
✓	1,2,4-Trimethylbenzene	0.97	11.816	322566	
✓	Unknown Peak 11.945	0.42	11.945	140411	
✓	Unknown Peak 12.110	0.34	12.110	114530	
✓	Unknown Peak 12.239	0.50	12.239	166268	
✓	Unknown Peak 12.317	0.25	12.318	83361	
✓	Unknown Peak 12.475	0.19	12.475	63990	
✓	Unknown Peak 12.547	0.23	12.547	75870	
✓	Unknown Peak 12.597	0.18	12.597	61126	
✓	Unknown Peak 12.647	0.13	12.647	44705	
✓	Unknown Peak 12.740	0.07	12.740	22272	
✓	Unknown Peak 12.819	0.05	12.819	18031	
✓	Unknown Peak 12.919	0.07	12.920	24821	
✓	Unknown Peak 12.955	0.10	12.955	31737	
✓	Unknown Peak 13.034	0.12	13.034	41205	
✓	Unknown Peak 13.127	0.06	13.127	21498	
✓	Unknown Peak 13.184	0.07	13.185	21788	
✓	Unknown Peak 13.377	0.07	13.378	23109	
✓	Unknown Peak 13.521	0.20	13.521	65313	
✓	Unknown Peak 13.771	0.03	13.772	10866	
✓	Unknown Peak 13.836	0.06	13.836	21416	
✓	Unknown Peak 14.015	0.10	14.015	32450	
✓	Unknown Peak 14.545	0.08	14.546	26211	
✓	Unknown Peak 14.803	0.06	14.803	18931	

Dilution Factor = $\frac{\text{Final Pressure}}{\text{Initial Vacuum}} = \frac{\text{14.7psi + Final Pressure (psi)}}{\text{14.7psi –[Init. Pressure (“Hg))*(14.7psi/30”Hg)]}}$

Dilution Factor = $\frac{\text{Final Pressure}}{\text{Initial Pressure}} = \frac{\text{14.7psi + Final Pressure (psi)}}{\text{14.7psi +Initial Pressure (psi)}}$

Initial Vacuum (" of Hg)	2 psi	5 psi	10 psi	15 psi
0.0	**1.14**	1.34	**1.68**	2.02
0.2	**1.14**	1.35	**1.69**	2.03
0.4	**1.15**	1.36	**1.70**	2.05
0.5	**1.16**	1.36	**1.71**	2.05
0.6	**1.16**	1.37	**1.71**	2.06
0.8	**1.17**	1.38	**1.73**	2.08
1.0	**1.18**	1.39	**1.74**	2.09
1.2	**1.18**	1.40	**1.75**	2.10
1.4	**1.19**	1.40	**1.76**	2.12
1.5	**1.20**	1.41	**1.77**	2.13
1.6	**1.20**	1.42	**1.77**	2.13
1.8	**1.21**	1.42	**1.79**	2.15
2.0	**1.22**	1.44	**1.80**	2.16
2.2	**1.23**	1.45	**1.81**	2.18
2.4	**1.23**	1.46	**1.83**	2.20
2.5	**1.24**	1.46	**1.83**	2.20
2.6	**1.24**	1.47	**1.84**	2.21
2.8	**1.25**	1.48	**1.85**	2.23
3.0	**1.26**	1.49	**1.87**	2.24
3.2	**1.27**	1.50	**1.88**	2.26
3.4	**1.28**	1.51	**1.90**	2.28
3.5	**1.29**	1.52	**1.90**	2.29
3.6	**1.29**	1.52	**1.91**	2.30
3.8	**1.30**	1.53	**1.92**	2.31
4.0	**1.31**	1.55	**1.94**	2.33
4.2	**1.32**	1.56	**1.95**	2.35
4.4	**1.33**	1.57	**1.97**	2.37
4.5	**1.34**	1.58	**1.98**	2.38
4.6	**1.34**	1.58	**1.98**	2.39
4.8	**1.35**	1.60	**2.00**	2.40
5.0	**1.36**	1.61	**2.02**	2.42
5.2	**1.37**	1.62	**2.03**	2.44
5.4	**1.39**	1.63	**2.05**	2.46
5.5	**1.39**	1.64	**2.06**	2.47
5.6	**1.40**	1.65	**2.07**	2.48
5.8	**1.41**	1.66	**2.08**	2.50
6.0	**1.42**	1.68	**2.10**	2.52
6.2	**1.43**	1.69	**2.12**	2.55
6.4	**1.44**	1.70	**2.14**	2.57
6.5	**1.45**	1.71	**2.15**	2.58
6.6	**1.46**	1.72	**2.15**	2.59
6.8	**1.47**	1.73	**2.17**	2.61
7.0	**1.48**	1.75	**2.19**	2.64
7.2	**1.49**	1.76	**2.21**	2.66
7.4	**1.51**	1.78	**2.23**	2.68
7.5	**1.51**	1.79	**2.24**	2.69
7.6	**1.52**	1.79	**2.25**	2.70

Initial Vacuum (" of Hg)	2 psi	5 psi	10 psi	15 psi
7.7	**1.53**	1.80	**2.26**	2.72
7.8	**1.54**	1.81	**2.27**	2.73
8.0	**1.55**	1.83	**2.29**	2.76
8.2	**1.56**	1.84	**2.31**	2.78
8.4	**1.58**	1.86	**2.33**	2.81
8.5	**1.59**	1.87	**2.34**	2.82
8.6	**1.59**	1.88	**2.36**	2.83
8.8	**1.61**	1.90	**2.38**	2.86
9.0	**1.62**	1.91	**2.40**	2.89
9.2	**1.64**	1.93	**2.42**	2.91
9.4	**1.65**	1.95	**2.45**	2.94
9.5	**1.66**	1.96	**2.46**	2.96
9.6	**1.67**	1.97	**2.47**	2.97
9.8	**1.69**	1.99	**2.50**	3.00
10.0	**1.70**	2.01	**2.52**	3.03
10.2	**1.72**	2.03	**2.55**	3.06
10.4	**1.74**	2.05	**2.57**	3.09
10.5	**1.75**	2.06	**2.59**	3.11
10.6	**1.76**	2.07	**2.60**	3.12
10.8	**1.78**	2.09	**2.63**	3.16
11.0	**1.79**	2.12	**2.65**	3.19
11.2	**1.81**	2.14	**2.68**	3.22
11.4	**1.83**	2.16	**2.71**	3.26
11.5	**1.84**	2.17	**2.72**	3.28
11.6	**1.85**	2.18	**2.74**	3.29
11.8	**1.87**	2.21	**2.77**	3.33
12.0	**1.89**	2.23	**2.80**	3.37
12.2	**1.91**	2.26	**2.83**	3.40
12.4	**1.94**	2.28	**2.86**	3.44
12.5	**1.95**	2.30	**2.88**	3.46
12.6	**1.96**	2.31	**2.90**	3.48
12.8	**1.98**	2.34	**2.93**	3.52
13.0	**2.00**	2.36	**2.97**	3.56
13.2	**2.03**	2.39	**3.00**	3.61
13.4	**2.05**	2.42	**3.04**	3.65
13.5	**2.07**	2.44	**3.06**	3.67
13.6	**2.08**	2.45	**3.07**	3.70
13.8	**2.10**	2.48	**3.11**	3.74
14.0	**2.13**	2.51	**3.15**	3.79
14.2	**2.16**	2.54	**3.19**	3.84
14.4	**2.18**	2.58	**3.23**	3.88
14.5	**2.20**	2.59	**3.25**	3.91
14.6	**2.21**	2.61	**3.27**	3.94
14.8	**2.24**	2.64	**3.32**	3.99
15.0	**2.27**	2.68	**3.36**	4.04
15.2	**2.30**	2.72	**3.41**	4.10
15.4	**2.33**	2.75	**3.45**	4.15

Initial Vacuum (" of Hg)	2 psi	5 psi	10 psi	15 psi
15.5	**2.35**	2.77	**3.48**	4.18
15.6	**2.37**	2.79	**3.50**	4.21
15.8	**2.40**	2.83	**3.55**	4.27
16.0	**2.43**	2.87	**3.60**	4.33
16.2	**2.47**	2.91	**3.65**	4.39
16.4	**2.51**	2.96	**3.71**	4.46
16.5	**2.52**	2.98	**3.73**	4.49
16.6	**2.54**	3.00	**3.76**	4.52
16.8	**2.58**	3.05	**3.82**	4.59
17.0	**2.62**	3.09	**3.88**	4.66
17.2	**2.66**	3.14	**3.94**	4.74
17.4	**2.70**	3.19	**4.00**	4.81
17.5	**2.73**	3.22	**4.03**	4.85
17.6	**2.75**	3.24	**4.07**	4.89
17.8	**2.79**	3.30	**4.13**	4.97
18.0	**2.84**	3.35	**4.20**	5.05
18.2	**2.89**	3.41	**4.27**	5.14
18.4	**2.94**	3.47	**4.35**	5.22
18.5	**2.96**	3.50	**4.38**	5.27
18.6	**2.99**	3.53	**4.42**	5.32
18.8	**3.04**	3.59	**4.50**	5.41
19.0	**3.10**	3.65	**4.58**	5.51
19.2	**3.16**	3.72	**4.67**	5.61
19.4	**3.22**	3.79	**4.76**	5.72
19.5	**3.25**	3.83	**4.80**	5.77
19.6	**3.28**	3.87	**4.85**	5.83
19.8	**3.34**	3.94	**4.94**	5.94
20.0	**3.41**	4.02	**5.04**	6.06
20.2	**3.48**	4.10	**5.14**	6.18
20.4	**3.55**	4.19	**5.25**	6.31
20.5	**3.59**	4.23	**5.31**	6.38
20.6	**3.63**	4.28	**5.36**	6.45
20.8	**3.70**	4.37	**5.48**	6.59
21.0	**3.79**	4.47	**5.60**	6.73
21.2	**3.87**	4.57	**5.73**	6.89
21.4	**3.96**	4.67	**5.86**	7.05
21.5	**4.01**	4.73	**5.93**	7.13
21.6	**4.06**	4.79	**6.00**	7.22
21.8	**4.16**	4.90	**6.15**	7.39
22.0	**4.26**	5.03	**6.30**	7.58
22.4	**4.48**	5.29	**6.63**	7.98

Initial Vacuum (" of Hg)	2 psi	5 psi	10 psi	15 psi
22.5	**4.54**	5.36	**6.72**	8.08
22.6	**4.61**	5.43	**6.81**	8.19
22.8	**4.73**	5.58	**7.00**	8.42
23.0	**4.87**	5.74	**7.20**	8.66
23.2	**5.01**	5.91	**7.41**	8.91
23.4	**5.16**	6.09	**7.64**	9.18
23.5	**5.24**	6.19	**7.76**	9.32
23.6	**5.33**	6.28	**7.88**	9.47
23.8	**5.50**	6.48	**8.13**	9.78
24.0	**5.68**	6.70	**8.40**	10.10
24.2	**5.88**	6.93	**8.69**	10.45
24.4	**6.09**	7.18	**9.00**	10.82
24.5	**6.20**	7.31	**9.17**	11.02
24.6	**6.31**	7.45	**9.33**	11.22
24.8	**6.55**	7.73	**9.69**	11.66
25.0	**6.82**	8.04	**10.08**	12.12
25.2	**7.10**	8.38	**10.50**	12.63
25.4	**7.41**	8.74	**10.96**	13.18
25.5	**7.57**	8.93	**11.20**	13.47
25.6	**7.75**	9.14	**11.46**	13.78
25.8	**8.11**	9.57	**12.00**	14.43
26.0	**8.52**	10.05	**12.60**	15.15
26.2	**8.97**	10.58	**13.27**	15.95
26.4	**9.47**	11.17	**14.00**	16.84
26.5	**9.74**	11.49	**14.40**	17.32
26.6	**10.02**	11.82	**14.83**	17.83
26.8	**10.65**	12.56	**15.75**	18.94
27.0	**11.36**	13.40	**16.80**	20.20
27.2	**12.17**	14.36	**18.00**	21.65
27.4	**13.11**	15.46	**19.39**	23.31
27.5	**13.63**	16.08	**20.16**	24.24
27.6	**14.20**	16.75	**21.00**	25.26
27.8	**15.49**	18.27	**22.91**	27.55
28.0	**17.04**	20.10	**25.20**	30.31
28.2	**18.93**	22.34	**28.00**	33.67
28.4	**21.30**	25.13	**31.51**	37.88
28.5	**22.72**	26.80	**33.61**	40.41
28.6	**24.34**	28.72	**36.01**	43.29
28.8	**28.40**	33.50	**42.01**	50.51
29.0	**34.08**	40.20	**50.41**	60.61

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Method:TO-15 (Sp)-AECOM (SMUD 59th alphanumeric)

CAS Number	Compound	Rpt. Limit(ppbv)
630-20-6	1,1,1,2-Tetrachloroethane	2.0
71-55-6	1,1,1-Trichloroethane	0.5
79-34-5	1,1,2,2-Tetrachloroethane	0.5
79-00-5	1,1,2-Trichloroethane	0.5
75-34-3	1,1-Dichloroethane	0.5
75-35-4	1,1-Dichloroethene	0.5
75-37-6	1,1-Difluoroethane	2.0
96-18-4	1,2,3-Trichloropropane	2.0
120-82-1	1,2,4-Trichlorobenzene	2.0
95-63-6	1,2,4-Trimethylbenzene	0.5
96-12-8	1,2-Dibromo-3-chloropropane	2.0
106-93-4	1,2-Dibromoethane (EDB)	0.5
95-50-1	1,2-Dichlorobenzene	0.5
107-06-2	1,2-Dichloroethane	0.5
78-87-5	1,2-Dichloropropane	0.5
108-67-8	1,3,5-Trimethylbenzene	0.5
106-99-0	1,3-Butadiene	0.5
541-73-1	1,3-Dichlorobenzene	0.5
106-46-7	1,4-Dichlorobenzene	0.5
123-91-1	1,4-Dioxane	2.0
540-84-1	2,2,4-Trimethylpentane	0.5
78-93-3	2-Butanone (Methyl Ethyl Ketone)	2.0
591-78-6	2-Hexanone	2.0
67-63-0	2-Propanol	2.0
107-05-1	3-Chloropropene	2.0
622-96-8	4-Ethyltoluene	0.5
108-10-1	4-Methyl-2-pentanone	0.5
67-64-1	Acetone	5.0
107-02-8	Acrolein	2.0
107-13-1	Acrylonitrile	2.0
100-44-7	alpha-Chlorotoluene	0.5
71-43-2	Benzene	0.5

75-27-4	Bromodichloromethane	0.5
	Method:TO-15 (Sp)-AECOM (SMUD 59th alphanumeric)	

CAS Number	Compound	Rpt. Limit(ppbv)
75-25-2	Bromoform	0.5
74-83-9	Bromomethane	5.0
75-15-0	Carbon Disulfide	2.0
56-23-5	Carbon Tetrachloride	0.5
108-90-7	Chlorobenzene	0.5
75-00-3	Chloroethane	2.0
67-66-3	Chloroform	0.5
74-87-3	Chloromethane	5.0
156-59-2	cis-1,2-Dichloroethene	0.5
10061-01-5	cis-1,3-Dichloropropene	0.5
98-82-8	Cumene	0.5
110-82-7	Cyclohexane	0.5
124-48-1	Dibromochloromethane	0.5
74-95-3	Dibromomethane	2.0
64-17-5	Ethanol	5.0
141-78-6	Ethyl Acetate	2.0
100-41-4	Ethyl Benzene	0.5
637-92-3	Ethyl-tert-butyl ether	2.0
75-69-4	Freon 11	0.5
76-13-1	Freon 113	0.5
76-14-2	Freon 114	0.5
75-71-8	Freon 12	0.5
811-97-2	Freon 134a	2.0
142-82-5	Heptane	0.5
87-68-3	Hexachlorobutadiene	2.0
67-72-1	Hexachloroethane	2.0
110-54-3	Hexane	0.5
74-88-4	Iodomethane	5.0
108-20-3	Isopropyl ether	2.0
108-38-3	m,p-Xylene	0.5
1634-04-4	Methyl tert-butyl ether	2.0
75-09-2	Methylene Chloride	5.0
91-20-3	Naphthalene	1.0
95-47-6	o-Xylene	0.5
103-65-1	Propylbenzene	0.5

115-07-1	Propylene	2.0
100-42-5	Styrene	0.5
994-05-8	tert-Amyl methyl ether	2.0
75-65-0	tert-Butyl alcohol	2.0
127-18-4	Tetrachloroethene	0.5
109-99-9	Tetrahydrofuran	0.5
108-88-3	Toluene	0.5
9999-9999-038	TPH ref. to Gasoline (MW=100)	50.0
156-60-5	trans-1,2-Dichloroethene	0.5
10061-02-6	trans-1,3-Dichloropropene	0.5
79-01-6	Trichloroethene	0.5
108-05-4	Vinyl Acetate	2.0
593-60-2	Vinyl Bromide	2.0
75-01-4	Vinyl Chloride	0.5

	Surrogate	Method Limits
17060-07-0	1,2-Dichloroethane-d4	70-130
460-00-4	4-Bromofluorobenzene	70-130
2037-26-5	Toluene-d8	70-130

Eurofins Air Toxics	Data Review Checklist			Release Date: 10/22/19
Workorder # 21086706A	Form F1.27	Revision #17	Revision Date: 10/22/19	Page 1 of 2

S1	S2	S3	S4	D	Section 1 – Spec Out				
					Initials/Instrument/Date	S1: MSDD LD 9/7/21	S2:	S3:	S4:
✓				■	Project Identification (PID), Project Requirements Table (PRT), Daily QC and ICAL met Criteria				
✓				■	Lumen QC and ICAL evaluation (ref. SOP/Method) report initialed and in folder				
NA				■	Manual Integrations included and approved				
✓					Chain of Custody verified for special comments/notes and analyses requested (add comments below)				
✓				■	Non-standard Target sublist verified (MDL/LOD, RL, control limits, etc.)				
✓				■	Verified standard expiration dates				

Profile, analyses, reporting, special notes and unusual circumstances: S1: QC- 2 out CCV, 4 out LCS, 3 out USD, LB- 0 qd.

A1	A2	A3	A4	D	Section 2 – Sample Analysis				
				✓	Initials/Date	A1: LD 9/3/21	A2:	A3:	A4:
✓					IS/Surr Recoveries, Dilution Factors, Load Volumes, leg(s) of instrument, Initial/Final Pressures, Canister #s Verified and dilution ranges are met per SOP (ex. Over-ranged/overdiluted)				
NA				N	a) Tedlar Bag IDs verified against COC b) Tedlar Bag ID confirmed with loading sequence/leg(s) of instrument				
NA				N	Manual Integrations/Bag or Can Dilution Forms/Re-pressurization Forms/Bag-Can Transfer Forms present (circle all that apply)				
✓				■	12/24 Hr clock time & Hold Time met for all samples				
NA				N	Re-analysis of sample(s) has been evaluated for comparability and/or sample(s) has/have been checked for trends (Inf/Eff), field dups/trip blanks, samples following bad loads on auto samplers have been verified (system blks, confirmation runs)				
✓					All runs have been evaluated for potential carry-over (TPHg/non-Target/over-range compounds/ etc.)				

Analytical and special notes: A1: 01A - Full load.

D1	D2	D3	D4	T	3T	Section 3 – Target Data Reduction	Technical Review Needed? Circle one: Yes/No		T:	
						Initials/Instrument/ Date	D1: LD 9/7/21	D2:	D3:	D4:
NA					■	CAR # (if applicable)				
					■	Spectra Verified *(documentation of spectral defense included if applicable)*				
NA					■	TICs resemble reference spectra/ TICs between sample dups. are consistent *(if applicable)*				
						Lab Narrative is correct				
					■	TPH/NMOC calculations complete and included in folder				

Special notes:

A	3T	Section 4- Atlas Data Entry	Lumen verified and included in folder	Circle one: Yes/No
		Initials/Date: LA 9/7/21	3rd Tier: *(needed only for DOD or per client request)*	
NA		Sample Discrepancy Report (SDR) complete and approved *(if applicable)*		
		Manually entered results are checked		
		At least one result per sample is verified against Target quant sheets		
		Appropriate data qualifier flags are applied		
		Final Invoice is correct/ Final PDF report, COC and EDD reviewed and correct		

Special Notes:

Note (1) *Please check all the appropriate boxes. Indicate "NA" for any statement that doesn't apply*
Note (2) 3rd Tier Report Reviewer and Write Up Reviewer must be separate individuals for DoD & Client Specific Projects

Workorder # :				**Reason for Reissue:**
W	**T**	**3T**	**Q**	
				Reissue Request form Present
				Client or QA or Lab contact present with reason for reissue
				Review all affected data
				Report header has correct R1, R2 etc
				The Lab Narrative clearly explains the reissue (Date, Reason and whether client requested)
				Date for Reissue in Report Header matches date in Lab Narrative
				Check Project Profile for correct reporting instructions (multiple clients, # hardcopies, etc)
				Corrective Action issued - #
				The reissued workorder has been approved by QA Manager or a Technical Director
Additional Comments:				

Write Up (Initials/Date)	**Tech Review** (Initials/Date)	***3rd Tier Review** ** 3rd Tier Report Review is for DoD & Client Specific projects only* (Initials/Date)	**QA Review** (Initials/Date)

Workorder # :				**Reason for Reissue:**
W	**T**	**3T**	**Q**	
				Reissue Request form Present
				Client or QA or Lab contact present with reason for reissue
				Review all affected data
				Report header has correct R1, R2 etc
				The Lab Narrative clearly explains the reissue (Date, Reason and whether client requested)
				Date for Reissue in Report Header matches date in Lab Narrative
				Check Project Profile for correct reporting instructions (multiple clients, # hardcopies, etc)
				Corrective Action issued - #
				The reissued workorder has been approved by QA Manager or a Technical Director
Additional Comments:				

Write Up (Initials/Date)	**Tech Review** (Initials/Date)	***3rd Tier Review** ** 3rd Tier Report Review is for DoD & Client Specific projects only* (Initials/Date)	**QA Review** (Initials/Date)

Note (1) *Please check all the appropriate boxes. Indicate "NA" for any statement that doesn't apply*
Note (2) 3rd Tier Report Reviewer and Write Up Reviewer must be separate individuals for DoD & Client Specific Projects

Not Applicable

Electronic Comprehensive Validation Package (eCVP)

Vera Belitsky Vera Belitsky 09-15-2021

eurofins | Air Toxics

WORK ORDER #: 2108676B

Work Order Summary

CLIENT:	Mr. Robert Kohlhardt AECOM 2020 L Street, Suite 400 Sacramento, CA 95811	**BILL TO:**	Mr. Jerry Montgomery SWPPQueen 7202 Gloria Drive #25 Sacramento, CA 95831
PHONE:	916-679-2000	**P.O. #**	
FAX:	916-679-2900	**PROJECT #**	60132793.6 SMUD 59th St
DATE RECEIVED:	08/30/2021	**CONTACT:**	Monica Tran
DATE COMPLETED:	09/14/2021		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
02A	SG-VW21A-06	TO-15	7.3 "Hg	10 psi
03A	Lab Blank	TO-15	NA	NA
04A	CCV	TO-15	NA	NA
05A	LCS	TO-15	NA	NA
05AA	LCSD	TO-15	NA	NA

CERTIFIED BY: Heidi Hayes DATE: 09/14/21

Technical Director

Certification numbers: AZ Licensure AZ0775, FL NELAP – E87680, LA NELAP – 02089, NH NELAP - 209220, NJ NELAP - CA016, NY NELAP - 11291, TX NELAP - T104704434-20-16, UT NELAP – CA009332020-12, VA NELAP - 10615, WA NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005-014, Effective date: 10/18/2020, Expiration date: 10/17/2021.
Eurofins Air Toxics, LLC certifies that the test results contained in this report meet all requirements of the NELAC standards

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 351-8279

LABORATORY NARRATIVE
EPA Method TO-15
AECOM
Workorder# 2108676B

One 1 Liter Summa Canister sample was received on August 30, 2021. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode.

Receiving Notes

Sample SG-VW21A-06 was placed on hold per the client's request.

Sample SG-VW21A-06 was removed from "Hold" and placed on "Active" status per client request on 9/7/21.

Analytical Notes

A single point calibration for TPH referenced to Gasoline was performed for each daily analytical batch. Recovery is reported as 100% in the associated results for each CCV.

The reported CCV for each daily batch may be derived from more than one analytical file due to the client's request for non-standard compounds.

Non-standard compounds may have different acceptance criteria than the standard TO-14A/TO-15 compound list as per contract or verbal agreement.

The US EPA released a document on December 17, 2010 outlining possible data quality concerns for Acrolein measured by EPA Method TO-15. As a result, Acrolein is reported as estimated. Please refer to EPA document tilted "Data Quality Evaluation Guidelines for Ambient Air Acrolein Measurements December 17, 2010" located on-line at www.epa.gov/ttn/amtic/airtox.html for complete details.

All Quality Control Limit exceedances and affected sample results are noted by flags. Each flag is defined at the bottom of this Case Narrative and on each Sample Result Summary page. Target compound non-detects in the samples that are associated with high bias in QC analyses have not been flagged.

Definition of Data Qualifying Flags

Ten qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

M - Reported value may be biased due to apparent matrix interferences.

CN - See Case Narrative.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

Table 1								
Client Sample ID	Lab Sample ID	Date Collected	Date Received	Date Extracted	Sample Holding Time (Days)	Date Analyzed	Sample Extract Holding Time (Days)	Sample Condition
SG-VW21A-06	2108676B-02A	08/30/2021	08/30/2021	NA	10	09/09/2021	NA	GOOD
Lab Blank	2108676B-03A	NA	NA	NA	NA	09/09/2021	NA	GOOD
CCV	2108676B-04A	NA	NA	NA	NA	09/09/2021	NA	GOOD
LCS	2108676B-05A	NA	NA	NA	NA	09/09/2021	NA	GOOD
LCSD	2108676B-05AA	NA	NA	NA	NA	09/09/2021	NA	GOOD

Sample Results and Raw Data

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Client ID:	SG-VW21A-06		
Lab ID:	2108676B-02A	**Date/Time Analyzed:**	9/9/21 07:42 PM
Date/Time Collected:	8/30/21 11:25 AM	**Dilution Factor:**	2.22
Media:	1 Liter Summa Canister	**Instrument/Filename:**	msd3.i / 3090917

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1,2-Tetrachloroethane	630-20-6	1.1	D	30	Not Detected
1,1,1-Trichloroethane	71-55-6	0.73	3.0	6.0	5.2 J
1,1,2,2-Tetrachloroethane	79-34-5	0.59	4.6	7.6	Not Detected
1,1,2-Trichloroethane	79-00-5	0.82	3.6	6.0	Not Detected
1,1-Dichloroethane	75-34-3	0.59	2.2	4.5	Not Detected
1,1-Dichloroethene	75-35-4	0.92	2.6	4.4	Not Detected
1,1-Difluoroethane	75-37-6	2.3	D	12	48
1,2,3-Trichloropropane	96-18-4	2.0	D	27	Not Detected
1,2,4-Trichlorobenzene	120-82-1	3.7	20	33	Not Detected
1,2,4-Trimethylbenzene	95-63-6	2.0	3.3	5.4	9.2
1,2-Dibromo-3-chloropropane	96-12-8	4.1	D	43	Not Detected
1,2-Dibromoethane (EDB)	106-93-4	0.72	5.1	8.5	Not Detected
1,2-Dichlorobenzene	95-50-1	0.57	4.0	6.7	Not Detected
1,2-Dichloroethane	107-06-2	0.90	2.7	4.5	Not Detected
1,2-Dichloropropane	78-87-5	1.7	3.1	5.1	Not Detected
1,3,5-Trimethylbenzene	108-67-8	0.85	3.3	5.4	3.7 J
1,3-Butadiene	106-99-0	0.81	1.5	2.4	Not Detected
1,3-Dichlorobenzene	541-73-1	0.85	4.0	6.7	Not Detected
1,4-Dichlorobenzene	106-46-7	0.43	4.0	6.7	Not Detected
1,4-Dioxane	123-91-1	0.79	4.0	16	Not Detected
2,2,4-Trimethylpentane	540-84-1	0.40	3.1	5.2	Not Detected
2-Butanone (Methyl Ethyl Ketone)	78-93-3	2.3	8.2	13	4.9 J
2-Hexanone	591-78-6	1.5	11	18	Not Detected
2-Propanol	67-63-0	0.73	6.8	11	8.7 J

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Client ID:	SG-VW21A-06		
Lab ID:	2108676B-02A	**Date/Time Analyzed:**	9/9/21 07:42 PM
Date/Time Collected:	8/30/21 11:25 AM	**Dilution Factor:**	2.22
Media:	1 Liter Summa Canister	**Instrument/Filename:**	msd3.i / 3090917

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
3-Chloropropene	107-05-1	1.4	3.5	14	Not Detected
4-Ethyltoluene	622-96-8	1.4	3.3	5.4	7.1
4-Methyl-2-pentanone	108-10-1	0.68	2.7	4.5	Not Detected
Acetone	67-64-1	1.9	6.6	26	18 J
Acrolein	107-02-8	3.1	D	10	Not Detected
Acrylonitrile	107-13-1	0.91	D	9.6	Not Detected
alpha-Chlorotoluene	100-44-7	0.46	3.4	5.7	Not Detected
Benzene	71-43-2	0.27	2.1	3.5	2.6 J
Bromodichloromethane	75-27-4	1.4	3.7	7.4	Not Detected
Bromoform	75-25-2	0.99	6.9	11	Not Detected
Bromomethane	74-83-9	1.9	11	43	Not Detected
Carbon Disulfide	75-15-0	3.2	8.6	14	6.1 J
Carbon Tetrachloride	56-23-5	1.1	4.2	7.0	Not Detected
Chlorobenzene	108-90-7	0.45	2.6	5.1	Not Detected
Chloroethane	75-00-3	2.4	7.3	12	Not Detected
Chloroform	67-66-3	0.64	2.7	5.4	8.6
Chloromethane	74-87-3	2.4	5.7	23	Not Detected
cis-1,2-Dichloroethene	156-59-2	0.79	2.6	4.4	Not Detected
cis-1,3-Dichloropropene	10061-01-5	0.73	3.0	5.0	Not Detected
Cumene	98-82-8	0.70	3.3	5.4	Not Detected
Cyclohexane	110-82-7	0.82	2.3	3.8	Not Detected
Dibromochloromethane	124-48-1	1.3	5.7	9.4	Not Detected
Dibromomethane	74-95-3	1.5	D	32	Not Detected
Ethanol	64-17-5	2.3	5.2	21	4.6 J

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Client ID:	SG-VW21A-06		
Lab ID:	2108676B-02A	**Date/Time Analyzed:**	9/9/21 07:42 PM
Date/Time Collected:	8/30/21 11:25 AM	**Dilution Factor:**	2.22
Media:	1 Liter Summa Canister	**Instrument/Filename:**	msd3.i / 3090917

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethyl Acetate	141-78-6	4.6	D	16	Not Detected
Ethyl Benzene	100-41-4	0.81	2.9	4.8	1.9 J
Ethyl-tert-butyl ether	637-92-3	1.4	D	18	Not Detected
Freon 11	75-69-4	0.72	3.7	6.2	1.4 J
Freon 113	76-13-1	1.3	5.1	8.5	Not Detected
Freon 114	76-14-2	1.1	4.6	7.8	Not Detected
Freon 12	75-71-8	0.99	3.3	5.5	17
Freon 134a	811-97-2	2.5	D	18	Not Detected
Heptane	142-82-5	0.81	2.7	4.5	Not Detected
Hexachlorobutadiene	87-68-3	5.2	30	47	Not Detected
Hexachloroethane	67-72-1	NA	D	43	Not Detected
Hexane	110-54-3	0.72	2.3	3.9	31
Iodomethane	74-88-4	3.5	D	64	Not Detected
Isopropyl ether	108-20-3	1.2	D	18	Not Detected
m,p-Xylene	108-38-3	2.6	2.9	4.8	7.4
Methyl tert-butyl ether	1634-04-4	0.98	4.0	16	Not Detected
Methylene Chloride	75-09-2	2.2	9.6	38	Not Detected
Naphthalene	91-20-3	0.76	1.4	12	Not Detected
o-Xylene	95-47-6	1.3	2.9	4.8	3.6 J
Propylbenzene	103-65-1	0.89	3.3	5.4	1.6 J
Propylene	115-07-1	1.4	4.8	7.6	Not Detected
Styrene	100-42-5	0.55	2.8	4.7	Not Detected
tert-Amyl methyl ether	994-05-8	2.7	D	18	Not Detected
tert-Butyl alcohol	75-65-0	1.2	D	13	Not Detected

EPA METHOD TO-15 GC/MS FULL SCAN
SMUD 59th St

Client ID:	SG-VW21A-06		
Lab ID:	2108676B-02A	**Date/Time Analyzed:**	9/9/21 07:42 PM
Date/Time Collected:	8/30/21 11:25 AM	**Dilution Factor:**	2.22
Media:	1 Liter Summa Canister	**Instrument/Filename:**	msd3.i / 3090917

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	127-18-4	1.3	4.5	7.5	150
Tetrahydrofuran	109-99-9	0.71	2.0	3.3	Not Detected
Toluene	108-88-3	1.0	2.5	4.2	12
TPH ref. to Gasoline (MW=100)	9999-9999-038	NA	D	450	530
trans-1,2-Dichloroethene	156-60-5	1.8	2.6	4.4	Not Detected
trans-1,3-Dichloropropene	10061-02-6	0.69	3.0	5.0	Not Detected
Trichloroethene	79-01-6	0.75	3.6	6.0	20
Vinyl Acetate	108-05-4	3.1	9.8	16	Not Detected
Vinyl Bromide	593-60-2	1.6	D	19	Not Detected
Vinyl Chloride	75-01-4	1.1	1.7	2.8	Not Detected

J = Estimated value.
D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	89
4-Bromofluorobenzene	460-00-4	70-130	95
Toluene-d8	2037-26-5	70-130	108

US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msd3.i/09SEP21.b/3090917.d
Lab Smp Id: 2108676B-02A
Inj Date : 09-SEP-2021 19:42
Operator : LD Inst ID: msd3.i
Smp Info : 200mL O0843
Misc Info : 7.3 Hg->10 psi
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msd3.i/09SEP21.b/321q0812b.m
Meth Date : 10-Sep-2021 14:44 ugdc Quant Type: ISTD
Cal Date : 02-SEP-2021 10:33 Cal File: 3090203.d
Als bottle: 9
Dil Factor: 2.22000
Integrator: HP RTE Compound Sublist: AEC25677.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE		(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 90 Bromochloromethane						CAS #: 74-97-5		
5.858	5.858 (1.000)	130	180377	25.0000			80.00- 120.00	100.00
5.858	5.858 (1.000)	128	138399				47.29- 107.29	76.73
5.858	5.858 (1.000)	49	292275				122.83- 182.83	162.04
* 108 1,4-Difluorobenzene						CAS #: 540-36-3		
6.750	6.750 (1.000)	114	646712	25.0000			80.00- 120.00	100.00
6.750	6.750 (1.000)	88	96512				0.00- 45.09	14.92
* 153 Chlorobenzene-d5						CAS #: 3114-55-4		
9.207	9.207 (1.000)	117	665975	25.0000			80.00- 120.00	100.00
9.207	9.207 (1.000)	82	344233				23.62- 83.62	51.69
$ 104 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
6.404	6.404 (1.093)	65	223673	22.2567	22.257		80.00- 120.00	100.00
6.404	6.404 (1.093)	67	114479				20.51- 80.51	51.18
$ 134 Toluene-d8						CAS #: 2037-26-5		
7.967	7.968 (1.180)	98	704628	27.0367	27.037		80.00- 120.00	100.00
7.967	7.968 (1.180)	70	76660				0.00- 42.00	10.88

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 134 Toluene-d8 (continued)							
7.967	7.968 (1.180)	100	467182			37.14- 97.14	66.30
$ 170 4-Bromofluorobenzene					CAS #: 460-00-4		
10.202	10.195 (1.108)	174	413296	23.7356	23.736	80.00- 120.00	100.00
10.195	10.195 (1.107)	95	506588			92.25- 152.25	122.57
10.202	10.195 (1.108)	176	383470			63.07- 123.07	92.78
7 1,1-Difluoroethane					CAS #: 75-37-6		
1.632	1.633 (0.279)	65	25558	8.01861	17.801	80.00- 120.00	100.00
1.632	1.633 (0.279)	51	39721			217.13- 277.13	155.42
1.632	1.647 (0.279)	47	9364			48.77- 108.77	36.64
8 Freon 12					CAS #: 75-71-8		
1.688	1.661 (0.288)	85	22215	1.55249	3.446	80.00- 120.00	100.00
1.688	1.661 (0.288)	87	8095			2.35- 62.35	36.44
33 Freon 11					CAS #: 75-69-4		
2.878	2.892 (0.491)	101	1838	0.11559	0.2566	80.00- 120.00	100.00(a)
2.878	2.892 (0.491)	103	1631			36.55- 96.55	88.72
39 Ethanol					CAS #: 64-17-5		
3.325	3.270 (0.568)	46	1389	1.10921	2.462	80.00- 120.00	100.00(a)
3.325	3.270 (0.568)	45	2771			213.29- 273.29	199.48
47 Acetone					CAS #: 67-64-1		
3.801	3.773 (0.649)	58	11127	3.33914	7.413	80.00- 120.00	100.00(a)
3.801	3.773 (0.649)	43	38774			325.09- 385.09	348.45
48 Carbon Disulfide					CAS #: 75-15-0		
3.843	3.857 (0.656)	76	13353	0.88654	1.968	80.00- 120.00	100.00(a)
52 2-Propanol					CAS #: 67-63-0		
4.011	3.941 (0.685)	45	20525	1.59607	3.543	80.00- 120.00	100.00(a)
3.997	3.941 (0.682)	43	6576			0.00- 49.76	32.04
67 Hexane					CAS #: 110-54-3		
4.739	4.753 (0.809)	57	43225	3.95785	8.786	80.00- 120.00	100.00
4.739	4.753 (0.809)	43	29672			36.74- 96.74	68.65
4.739	4.753 (0.809)	86	5261			0.00- 43.22	12.17
86 2-Butanone					CAS #: 78-93-3		
5.676	5.648 (0.969)	72	2189	0.75230	1.670	80.00- 120.00	100.00(a)
5.662	5.648 (0.967)	43	14460			1111.25-1171.25	660.29
5.676	5.648 (0.969)	57	1351			11.22- 71.22	61.71

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
92 Chloroform					CAS #: 67-66-3		
5.914	5.914 (1.010)	83	10103	0.79190	1.758	80.00- 120.00	100.00
5.914	5.914 (1.010)	85	5896			34.29- 94.29	58.36
96 1,1,1-Trichloroethane					CAS #: 71-55-6		
6.040	6.054 (1.031)	97	5952	0.42978	0.9541	80.00- 120.00	100.00(a)
6.054	6.054 (1.033)	99	3778			34.55- 94.55	63.49
102 Benzene					CAS #: 71-43-2		
6.376	6.376 (0.945)	78	6199	0.36956	0.8204	80.00- 120.00	100.00(a)
6.376	6.376 (0.945)	77	2402			0.00- 53.48	38.75
111 Trichloroethene					CAS #: 79-01-6		
6.943	6.950 (1.029)	95	13584	1.65669	3.678	80.00- 120.00	100.00
6.943	6.950 (1.029)	130	15216			79.68- 139.68	112.01
6.943	6.943 (1.029)	97	8687			34.74- 94.74	63.95
137 Toluene					CAS #: 108-88-3		
8.025	8.025 (1.189)	91	30662	1.37567	3.054	80.00- 120.00	100.00
8.025	8.025 (1.189)	92	17422			28.13- 88.13	56.82
142 Tetrachloroethene					CAS #: 127-18-4		
8.462	8.462 (0.919)	166	120760	9.84714	21.861	80.00- 120.00	100.00
8.462	8.462 (0.919)	129	92891			48.51- 108.51	76.92
8.462	8.462 (0.919)	131	90750			45.64- 105.64	75.15
155 Ethyl Benzene					CAS #: 100-41-4		
9.271	9.278 (1.007)	106	2055	0.19864	0.4410	80.00- 120.00	100.00(a)
9.278	9.278 (1.008)	91	7524			282.43- 342.43	366.12
158 m,p-Xylene					CAS #: 108-38-3		
9.371	9.371 (1.018)	106	9717	0.76474	1.698	80.00- 120.00	100.00
9.371	9.371 (1.018)	91	19779			169.66- 229.66	203.54
164 o-Xylene					CAS #: 95-47-6		
9.722	9.722 (1.056)	106	4522	0.37533	0.8332	80.00- 120.00	100.00(a)
9.722	9.722 (1.056)	91	10399			180.55- 240.55	229.96
178 Propylbenzene					CAS #: 103-65-1		
10.360	10.360 (1.125)	120	1581	0.14392	0.3195	80.00- 120.00	100.00(a)
10.360	10.353 (1.125)	91	5744			385.23- 445.23	363.22
10.367	10.360 (1.126)	105	218			0.00- 46.02	13.83
183 4-Ethyltoluene					CAS #: 622-96-8		
10.431	10.453 (1.133)	120	7755	0.65385	1.452	80.00- 120.00	100.00
10.431	10.453 (1.133)	105	24827			295.29- 355.29	320.13

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
185 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
10.503	10.503 (1.141)	120	5582	0.33738	0.7490	80.00- 120.00	100.00(a)
10.503	10.503 (1.141)	105	11871			176.14- 236.14	212.65
190 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
10.833	10.833 (1.177)	105	26983	0.84032	1.866	80.00- 120.00	100.00
10.833	10.833 (1.177)	120	12720			17.12- 77.12	47.14

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd3.i
Lab File ID: 3090917.d
Lab Smp Id: 2108676B-02A
Analysis Type: VOA
Quant Type: ISTD
Operator: LD
Method File: /chem/msd3.i/09SEP21.b/321q0812b.m
Misc Info: 7.3 Hg->10 psi

Calibration Date: 09-SEP-2021
Calibration Time: 11:39
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	194770	116862	272678	180377	-7.39
108 1,4-Difluorobenze	712592	427555	997629	646712	-9.25
153 Chlorobenzene-d5	710524	426314	994734	665975	-6.27

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.86	5.53	6.19	5.86	-0.00
108 1,4-Difluorobenze	6.75	6.42	7.08	6.75	-0.00
153 Chlorobenzene-d5	9.21	8.88	9.54	9.21	-0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 14-Sep-2021 13:15

US32TAR1

RECOVERY REPORT

Client Name: Client SDG: 09SEP21
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 2108676B-02A
Level: LOW Operator: LD
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT20_new.spk Quant Type: ISTD
Sublist File: AEC25677.sub
Method File: /chem/msd3.i/09SEP21.b/321q0812b.m
Misc Info: 7.3 Hg->10 psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 104 1,2-Dichloroethan	25.000	22.257	89.03	70-130
$ 134 Toluene-d8	25.000	27.037	108.15	70-130
$ 170 4-Bromofluorobenz	25.000	23.736	94.94	70-130

Data File: /chem/msd3.i/09SEP21.b/3090917.d

Date : 09-SEP-2021 19:42

Client ID:

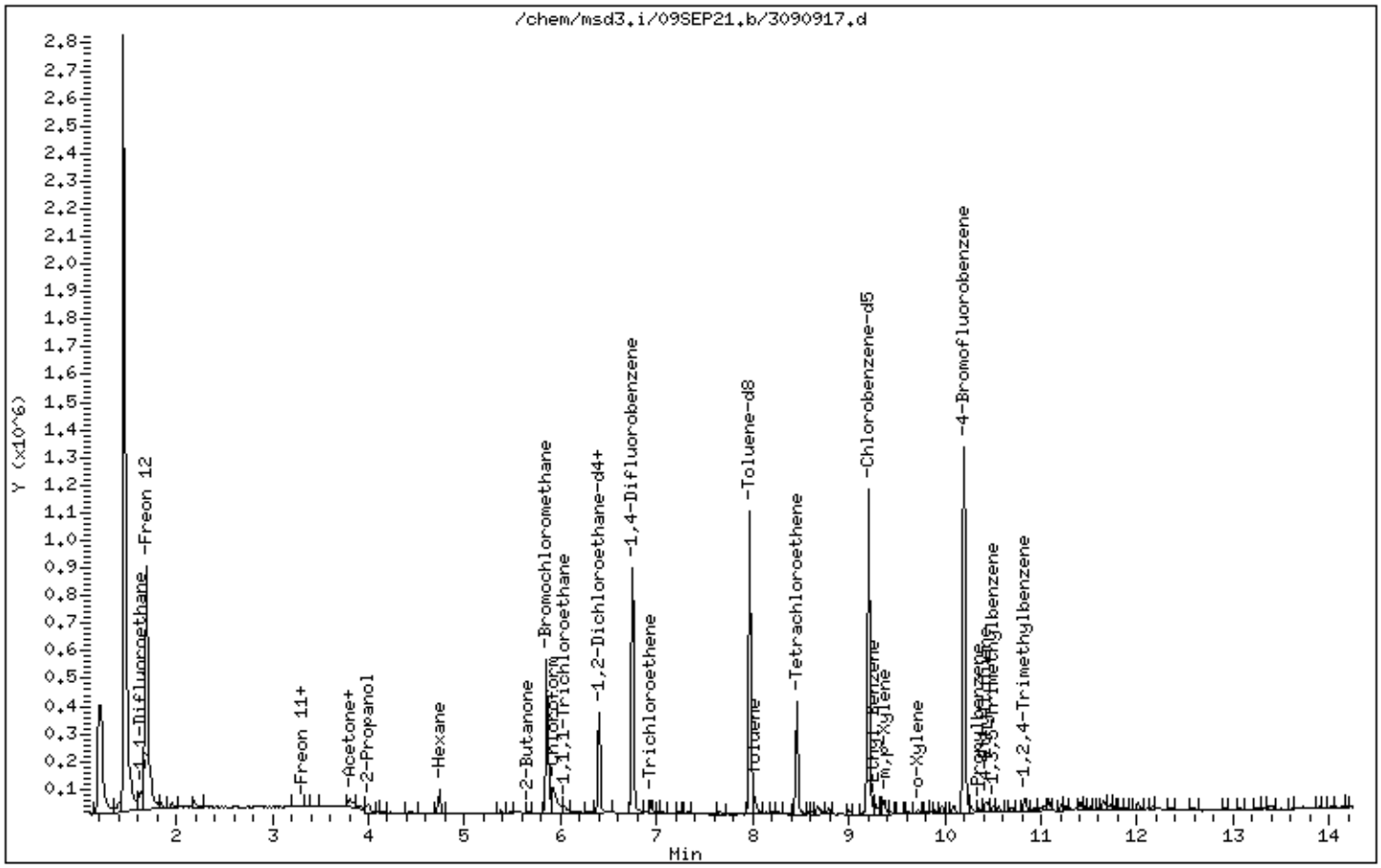
Instrument: msd3.i

Sample Info: 200mL 00843

Operator: LD

Column phase: RTX-624

Column diameter: 0.25



Data File: /chem/msd3.i/09SEP21.b/3090917.d

Date : 09-SEP-2021 19:42

Client ID:

Instrument: msd3.i

Sample Info: 200mL 00843

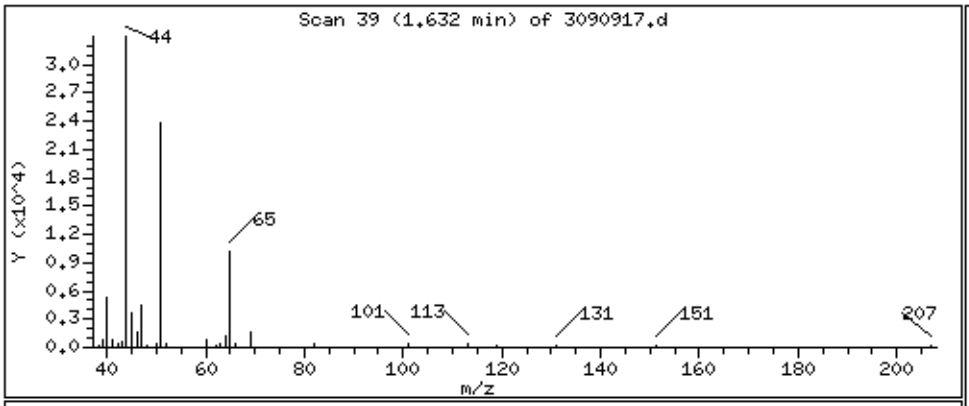
Operator: LD

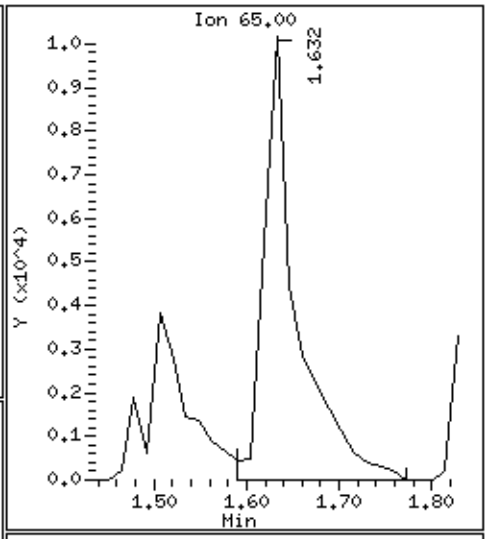
Column phase: RTX-624

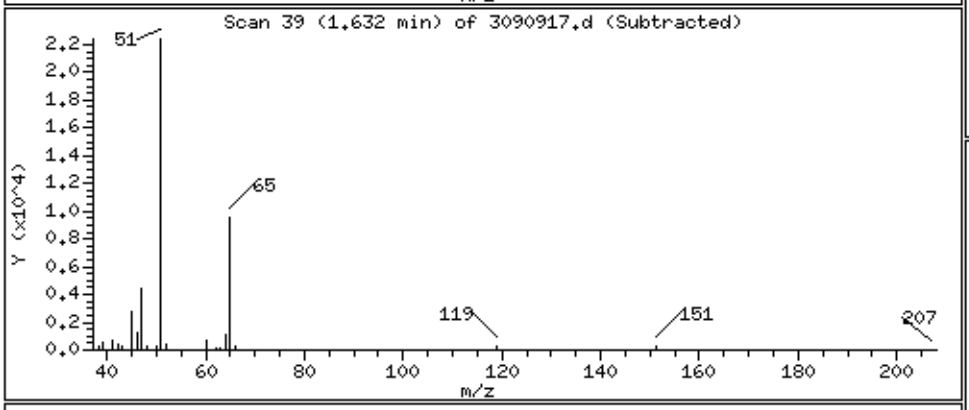
Column diameter: 0.25

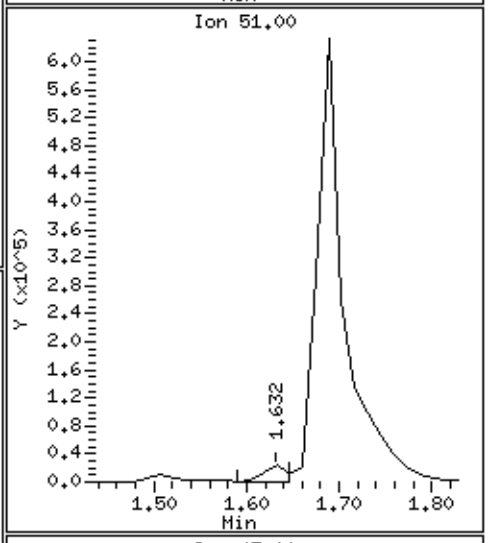
7 1,1-Difluoroethane

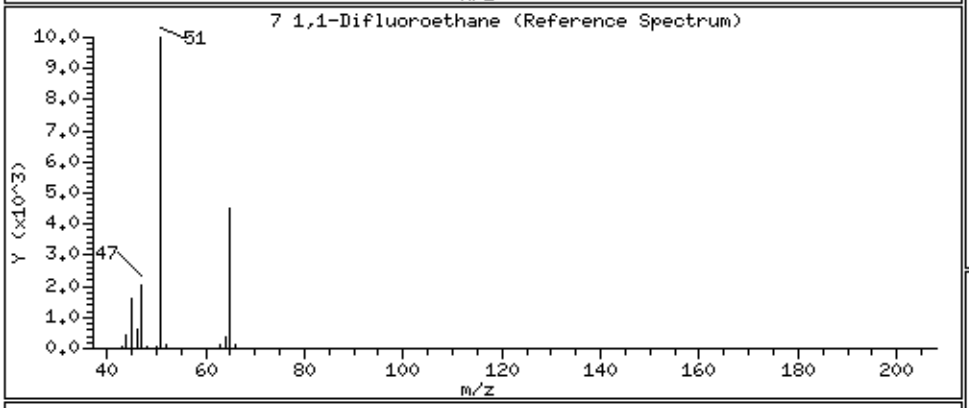
Concentration: 17.801 PPBV

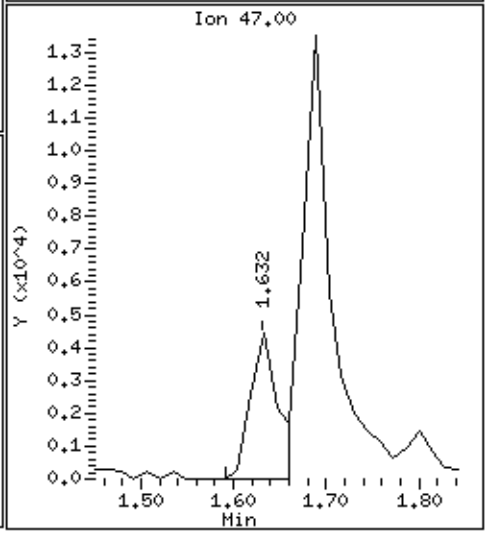


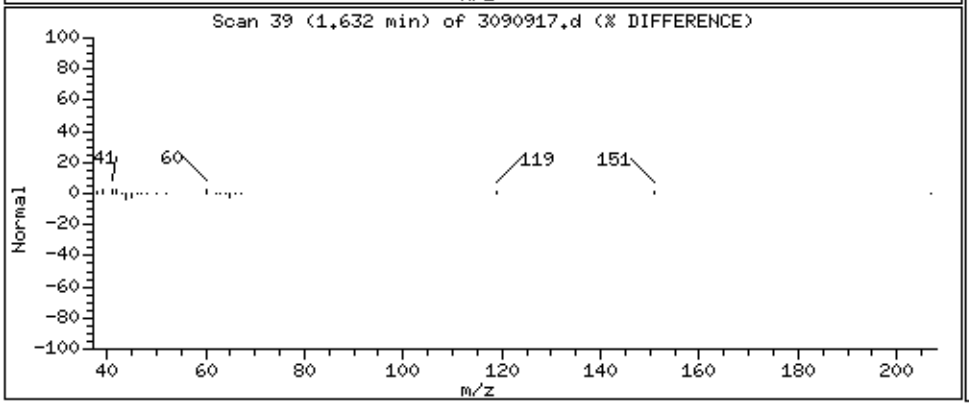












Data File: /chem/msd3.i/09SEP21.b/3090917.d

Date : 09-SEP-2021 19:42

Client ID:

Instrument: msd3.i

Sample Info: 200mL 00843

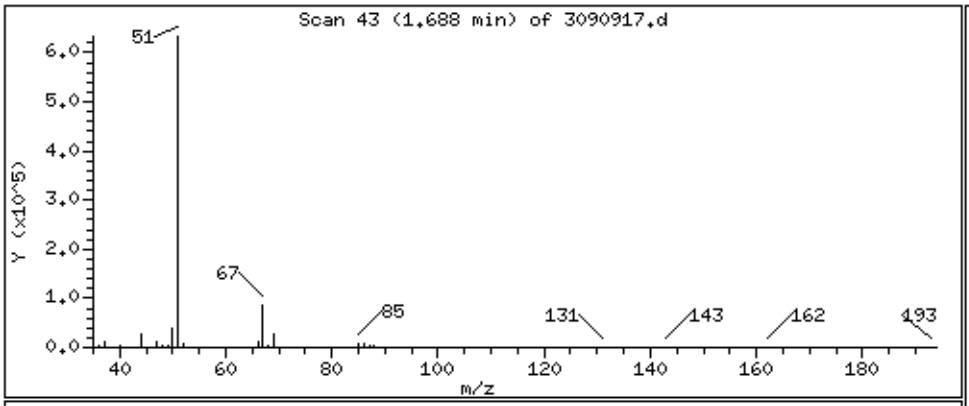
Operator: LD

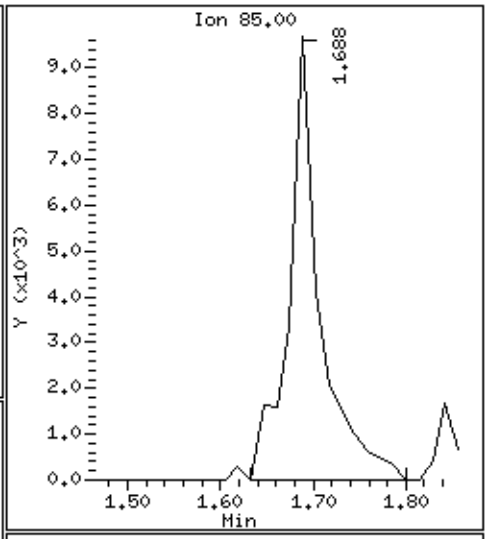
Column phase: RTX-624

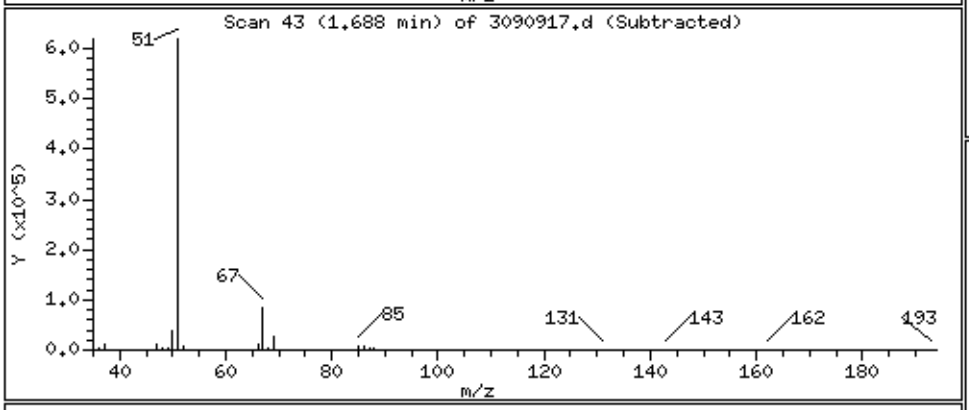
Column diameter: 0.25

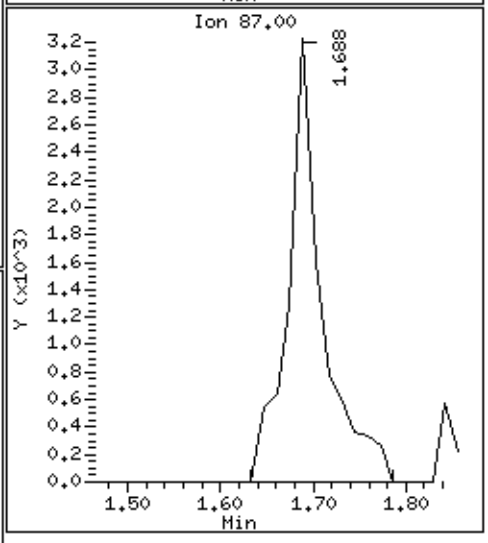
8 Freon 12

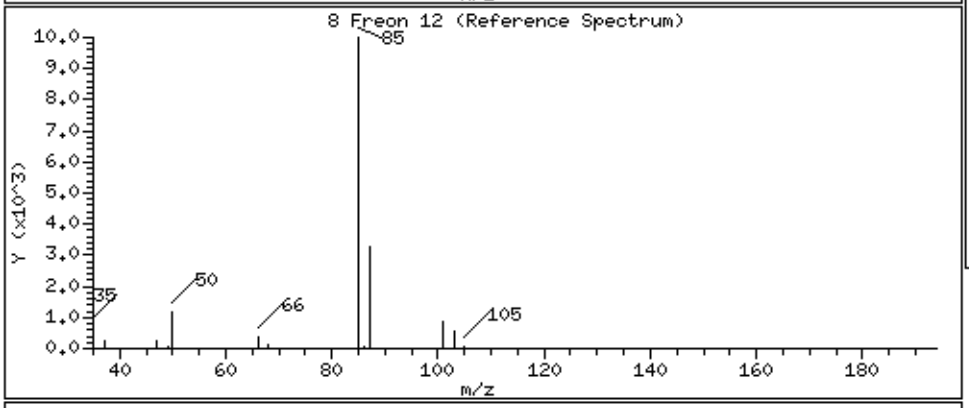
Concentration: 3.446 PPBV

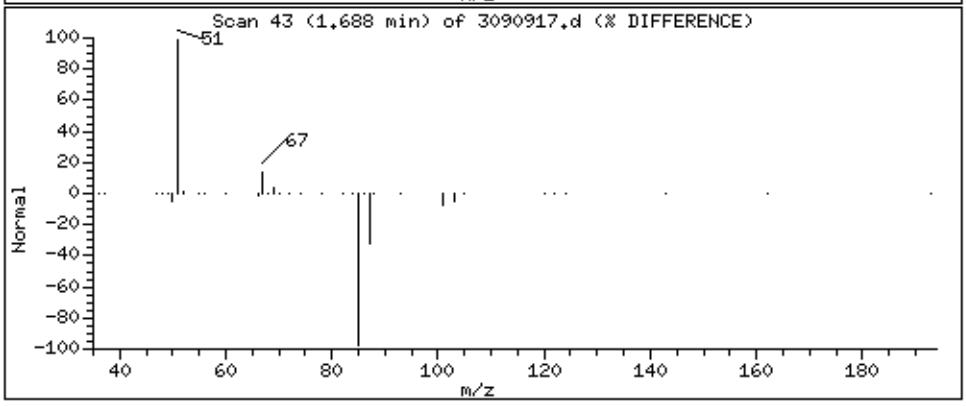












Data File: /chem/msd3.i/09SEP21.b/3090917.d

Date : 09-SEP-2021 19:42

Client ID:

Instrument: msd3.i

Sample Info: 200mL 00843

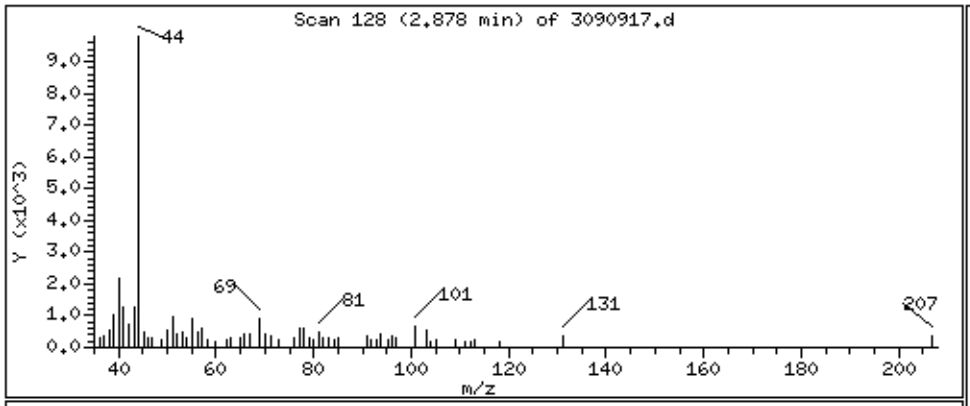
Operator: LD

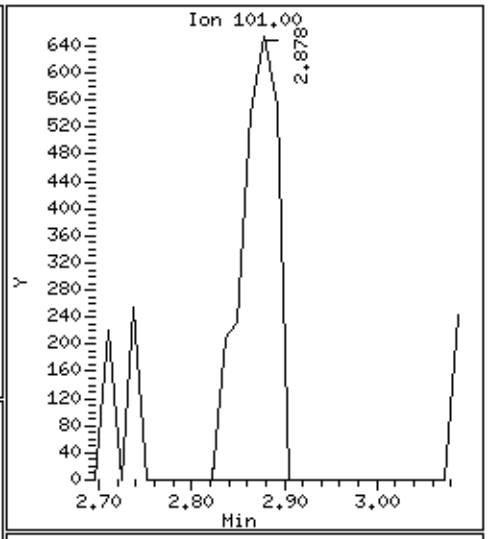
Column phase: RTX-624

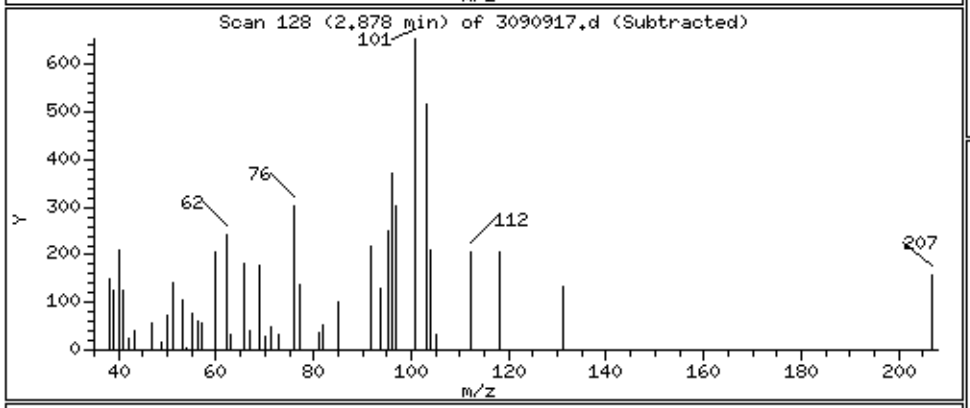
Column diameter: 0.25

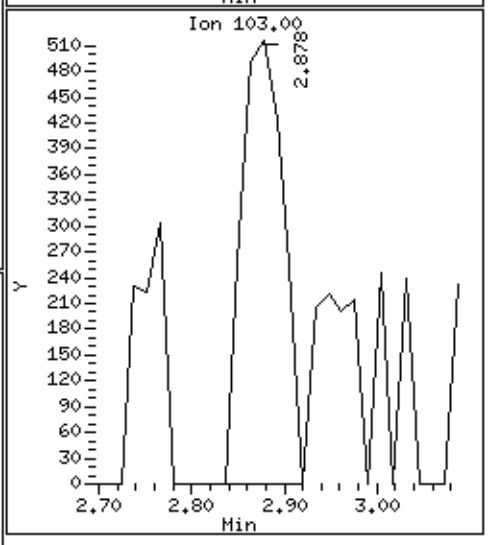
33 Freon 11

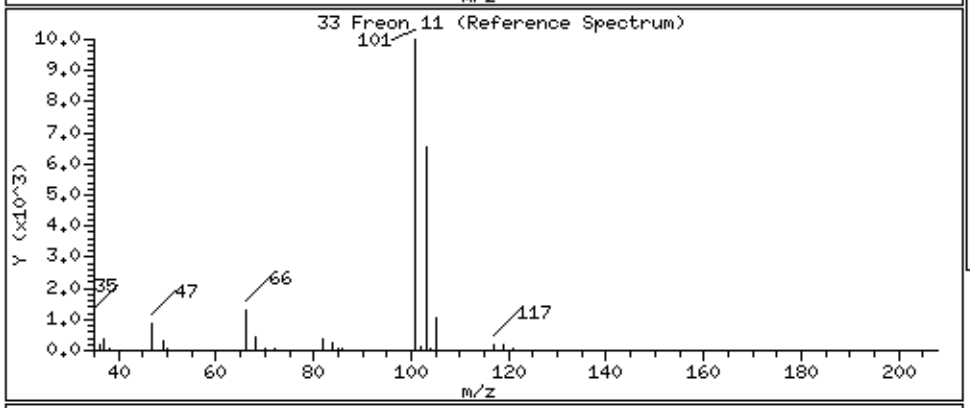
Concentration: 0.2566 PPBV

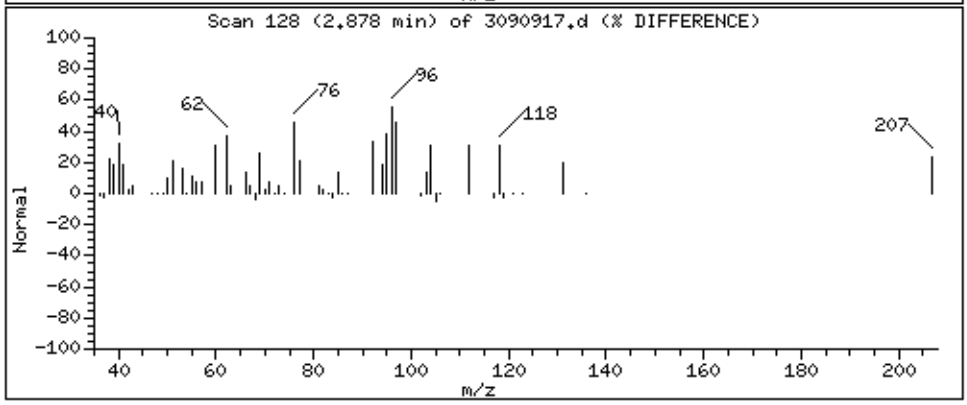












Data File: /chem/msd3.i/09SEP21.b/3090917.d

Date : 09-SEP-2021 19:42

Client ID:

Instrument: msd3.i

Sample Info: 200mL 00843

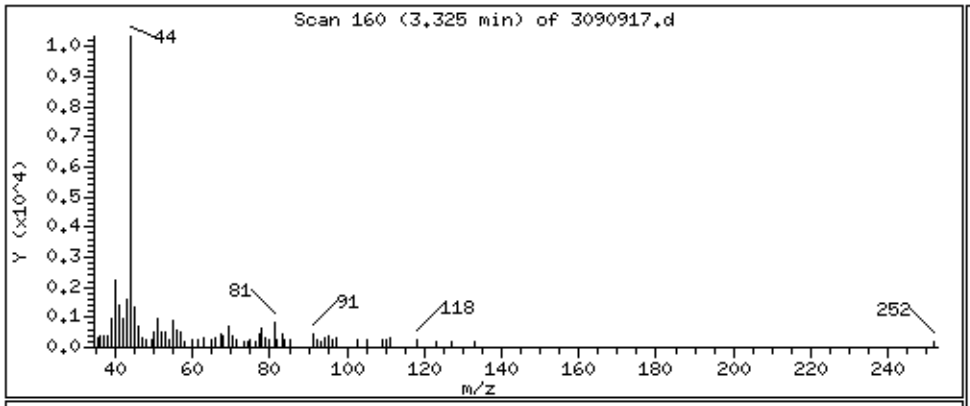
Operator: LD

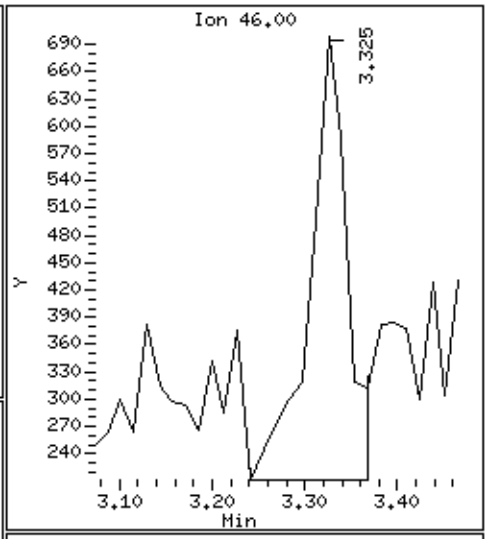
Column phase: RTX-624

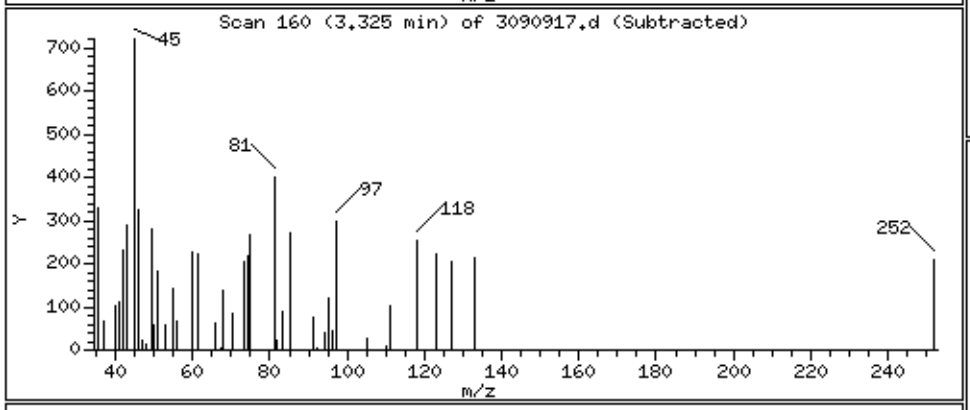
Column diameter: 0.25

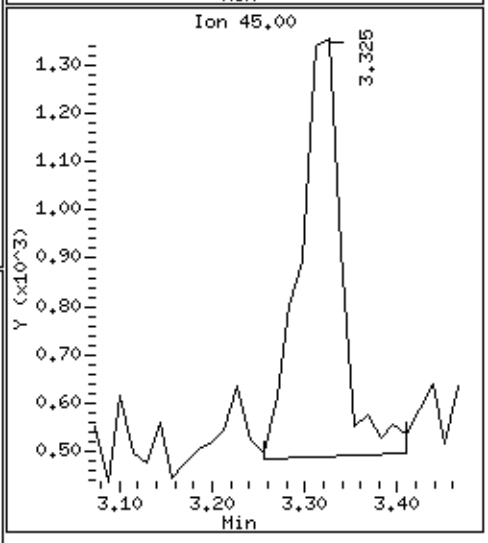
39 Ethanol

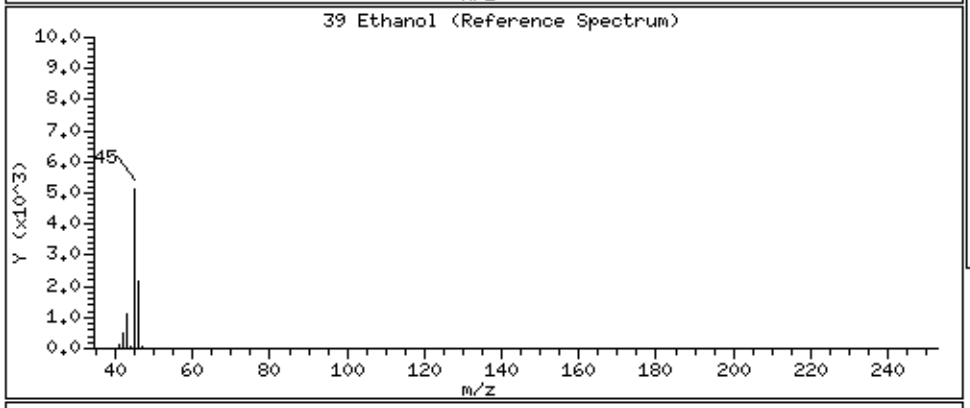
Concentration: 2.462 PPBV

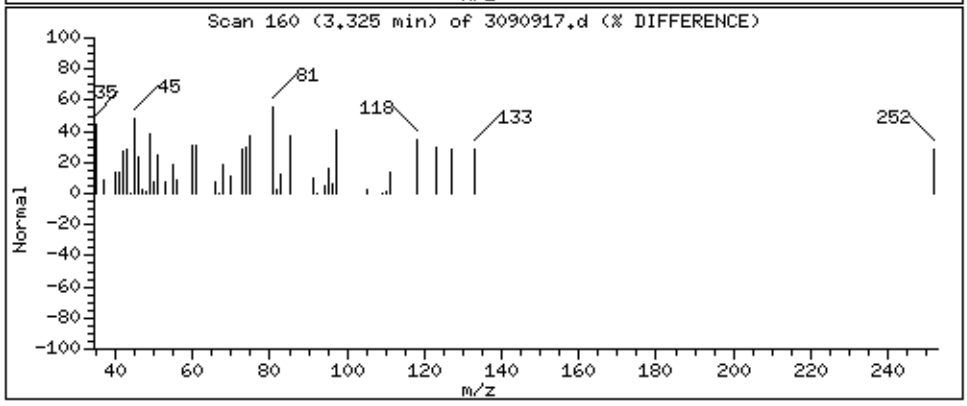












Data File: /chem/msd3.i/09SEP21.b/3090917.d

Date : 09-SEP-2021 19:42

Client ID:

Instrument: msd3.i

Sample Info: 200mL 00843

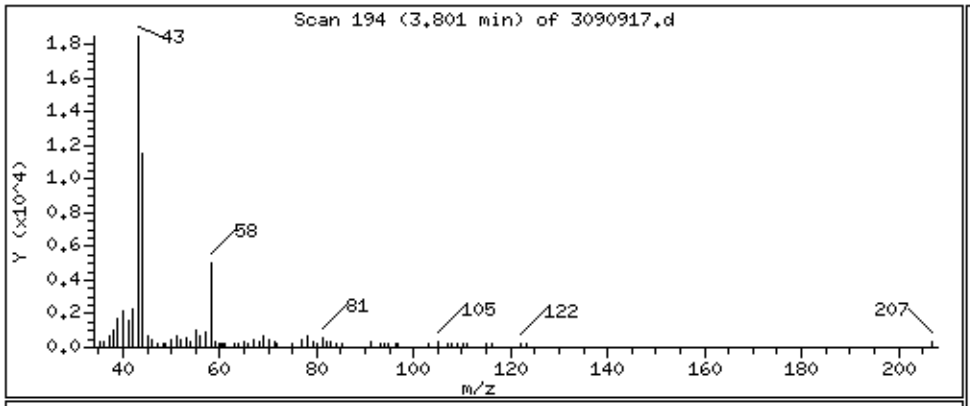
Operator: LD

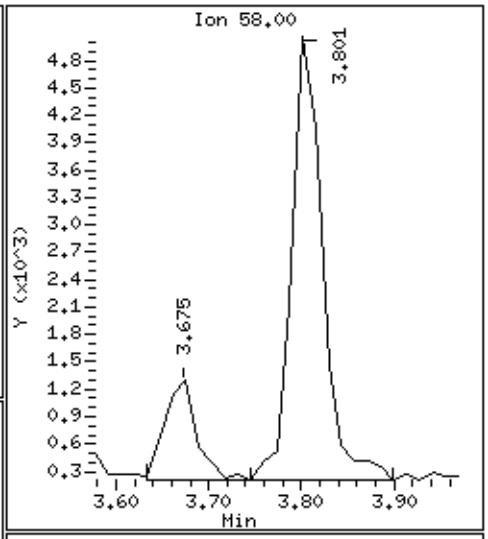
Column phase: RTX-624

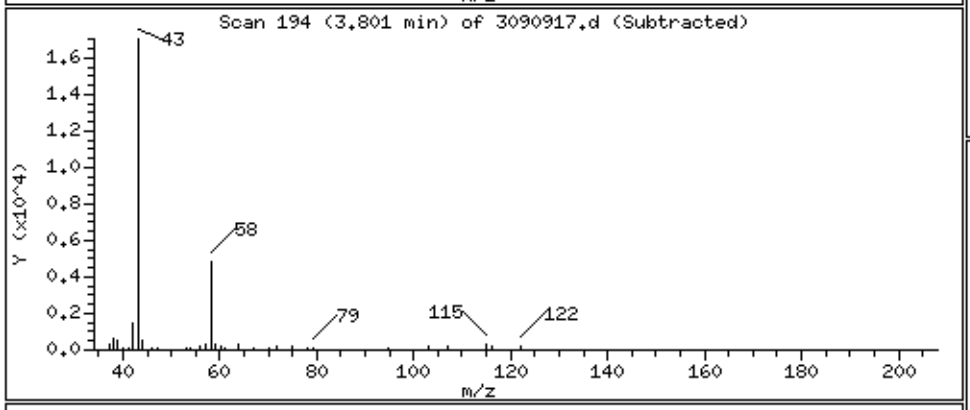
Column diameter: 0.25

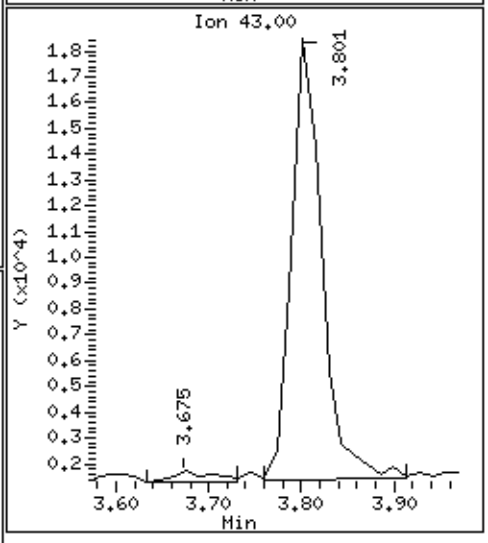
47 Acetone

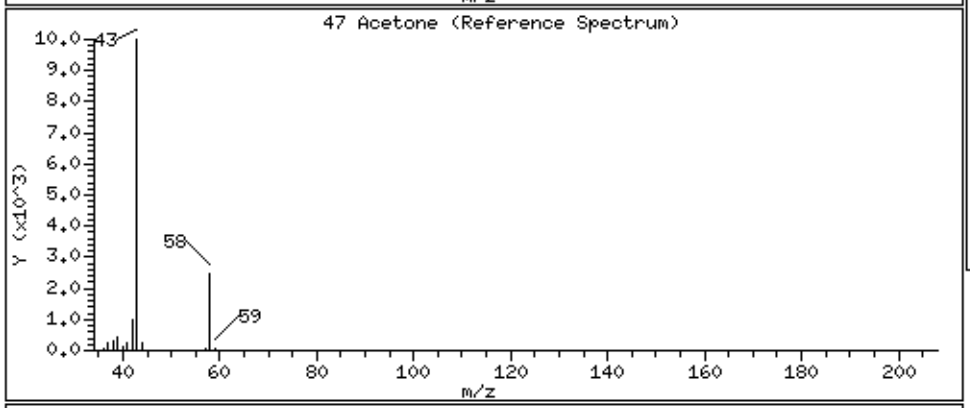
Concentration: 7.413 PPBV

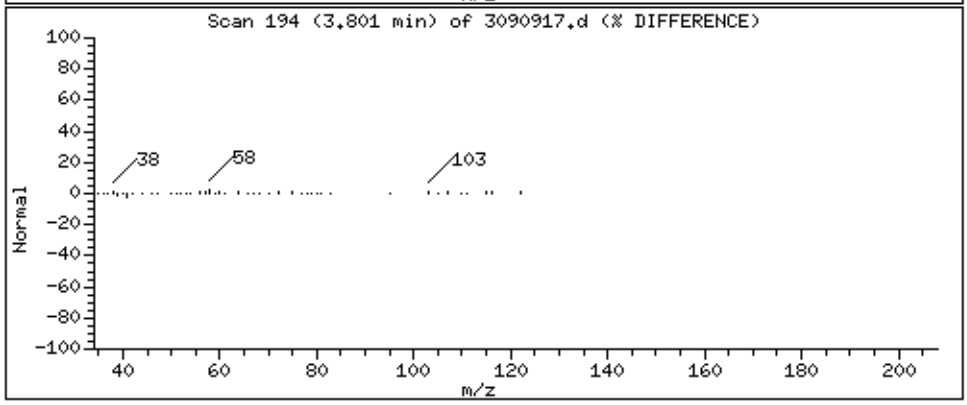












Data File: /chem/msd3.i/09SEP21.b/3090917.d

Date : 09-SEP-2021 19:42

Client ID:

Instrument: msd3.i

Sample Info: 200mL 00843

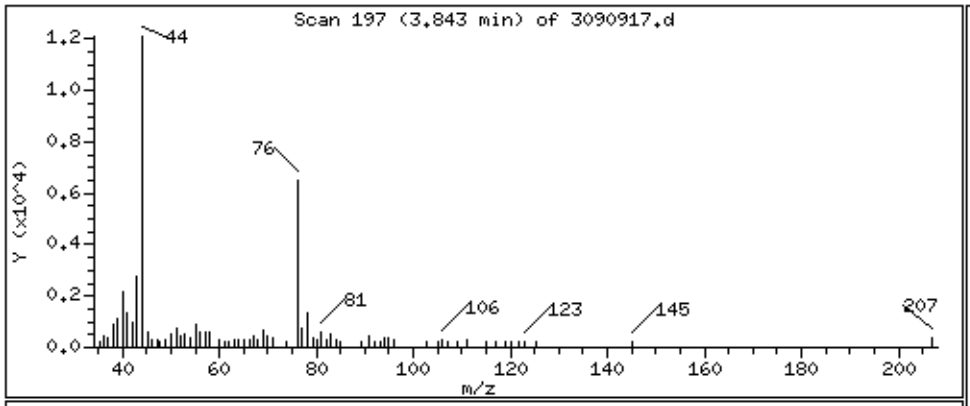
Operator: LD

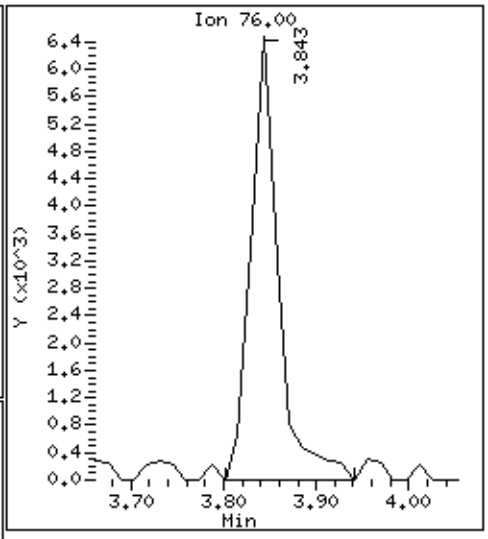
Column phase: RTX-624

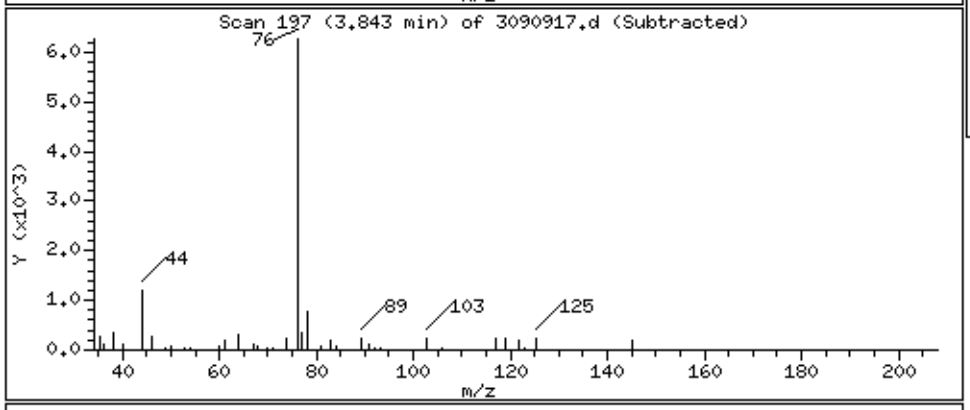
Column diameter: 0.25

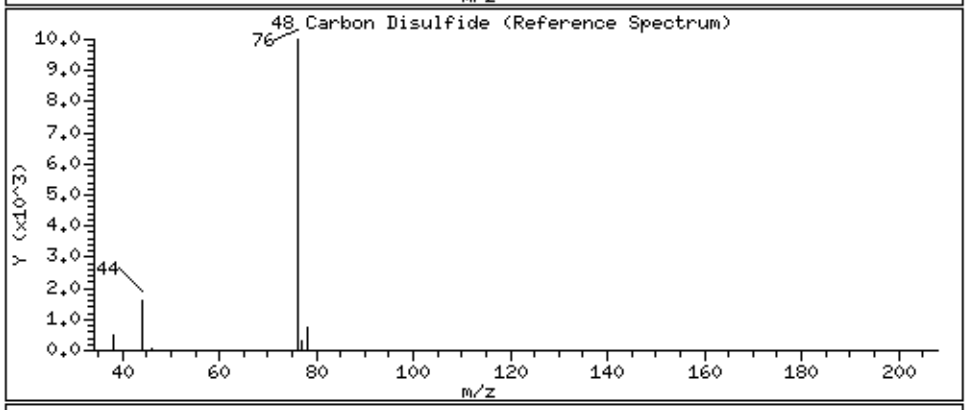
48 Carbon Disulfide

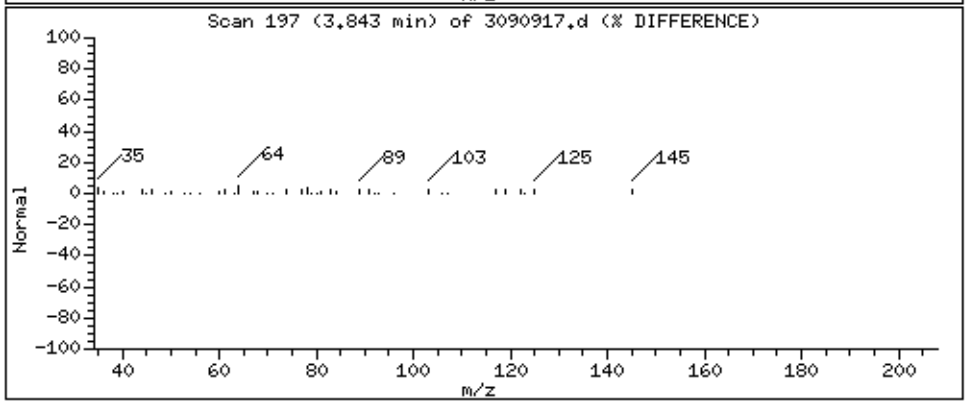
Concentration: 1.968 PPBV











Data File: /chem/msd3.i/09SEP21.b/3090917.d

Date : 09-SEP-2021 19:42

Client ID:

Instrument: msd3.i

Sample Info: 200mL 00843

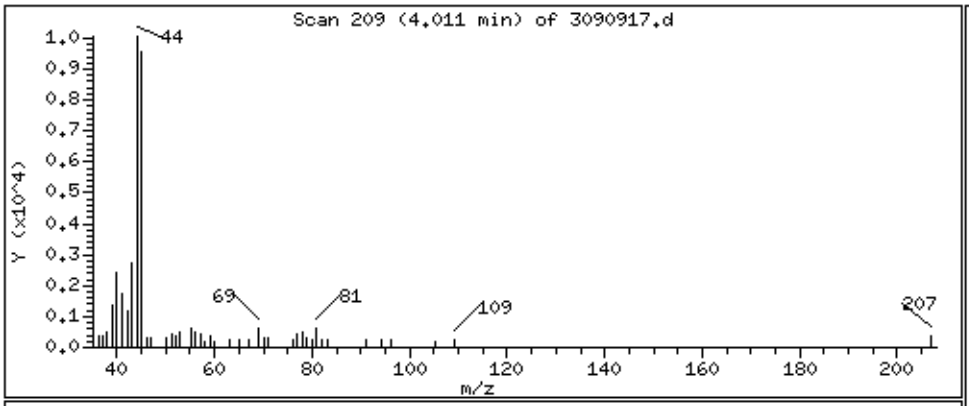
Operator: LD

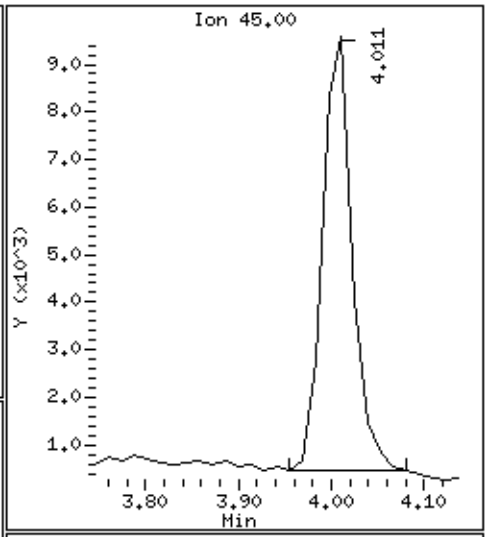
Column phase: RTX-624

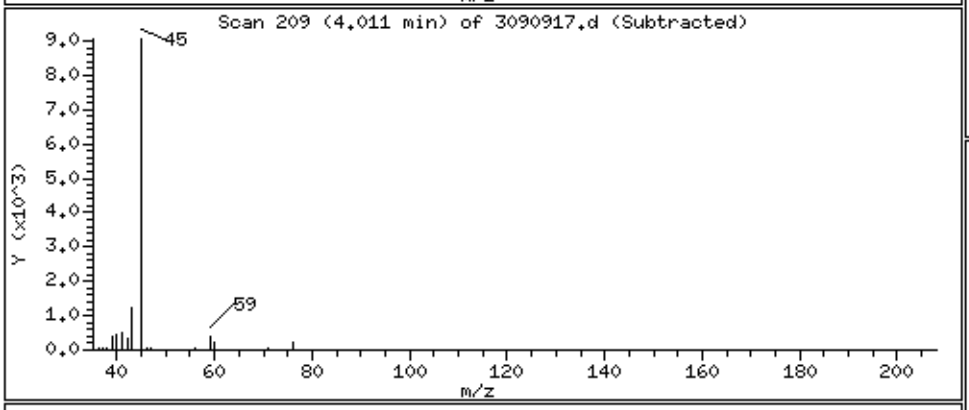
Column diameter: 0.25

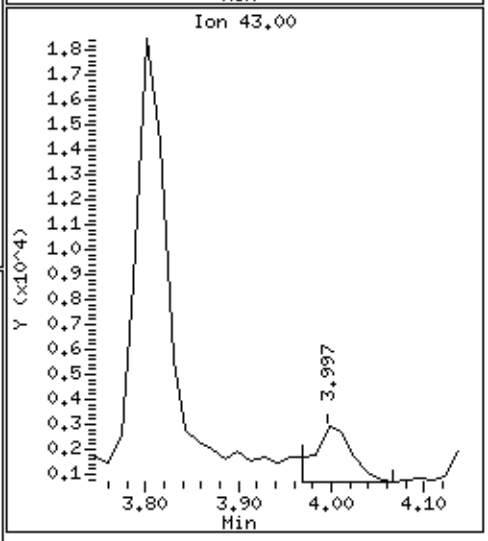
52 2-Propanol

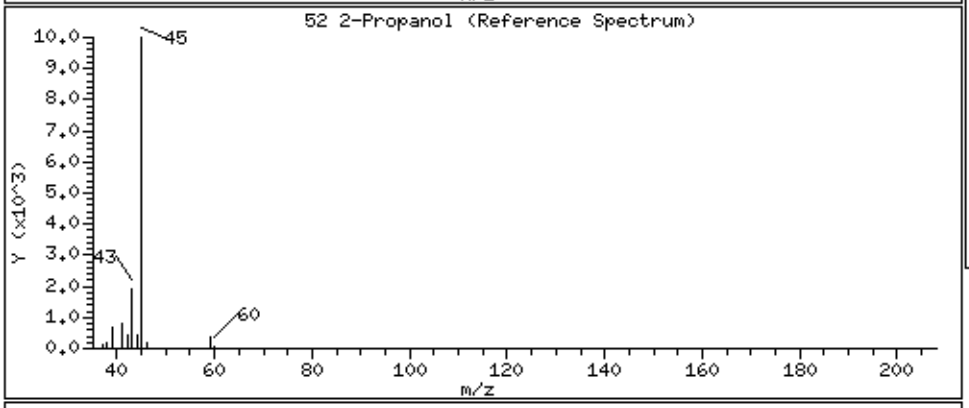
Concentration: 3.543 PPBV

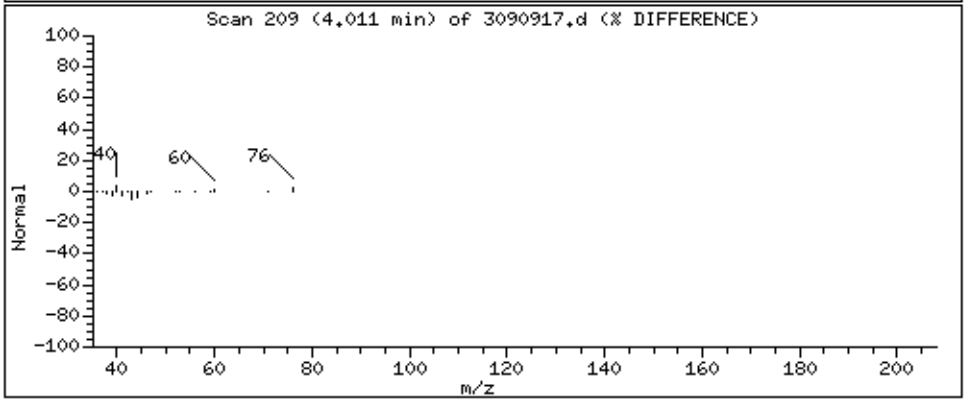












Data File: /chem/msd3.i/09SEP21.b/3090917.d

Date : 09-SEP-2021 19:42

Client ID:

Instrument: msd3.i

Sample Info: 200mL 00843

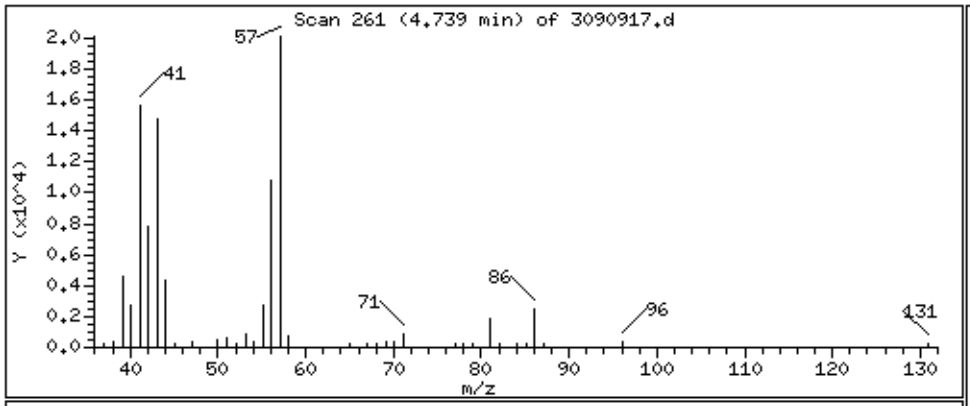
Operator: LD

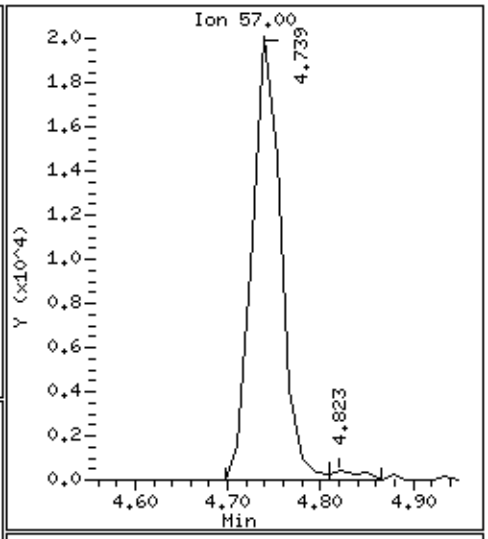
Column phase: RTX-624

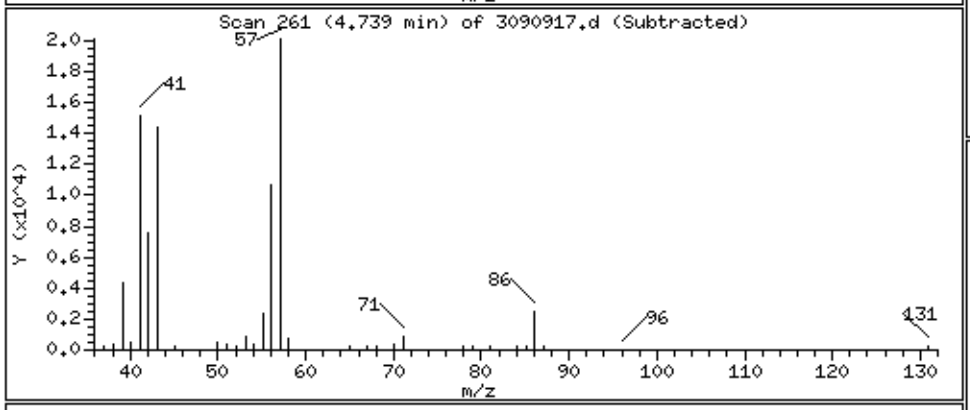
Column diameter: 0.25

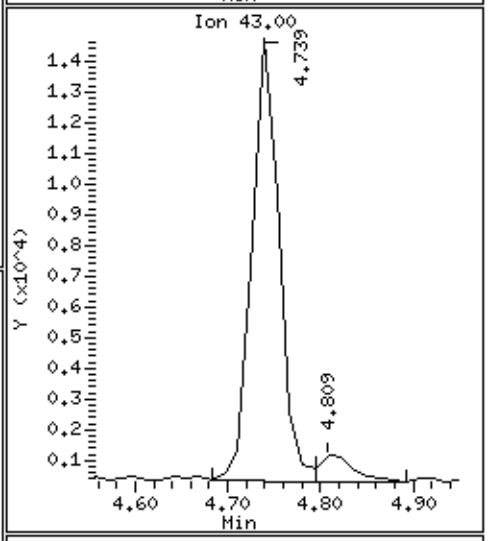
67 Hexane

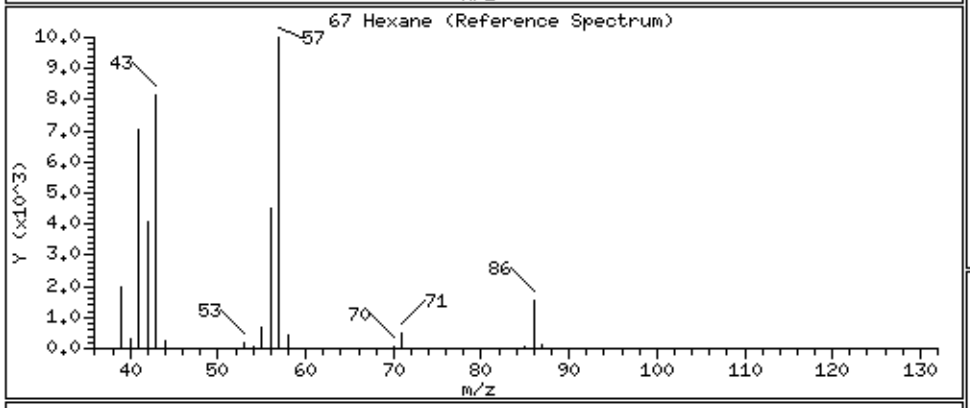
Concentration: 8.786 PPBV

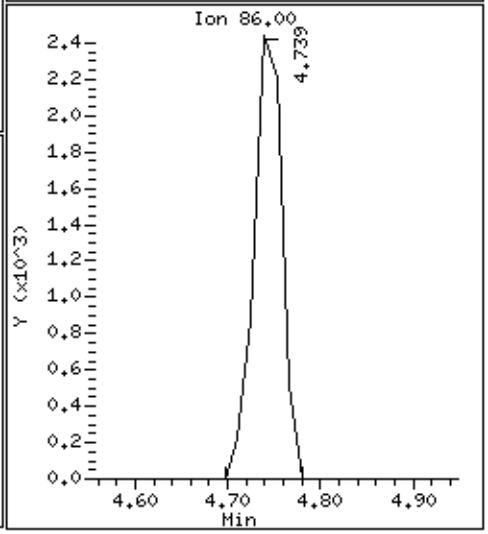


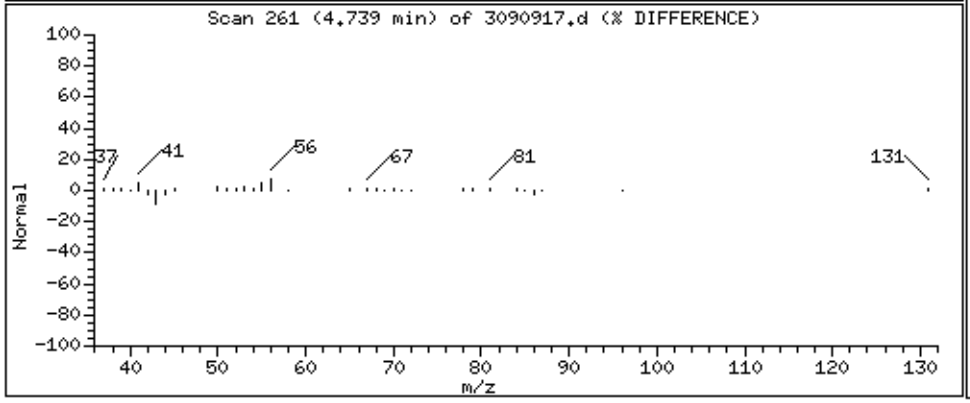












Data File: /chem/msd3.i/09SEP21.b/3090917.d

Date : 09-SEP-2021 19:42

Client ID:

Instrument: msd3.i

Sample Info: 200mL 00843

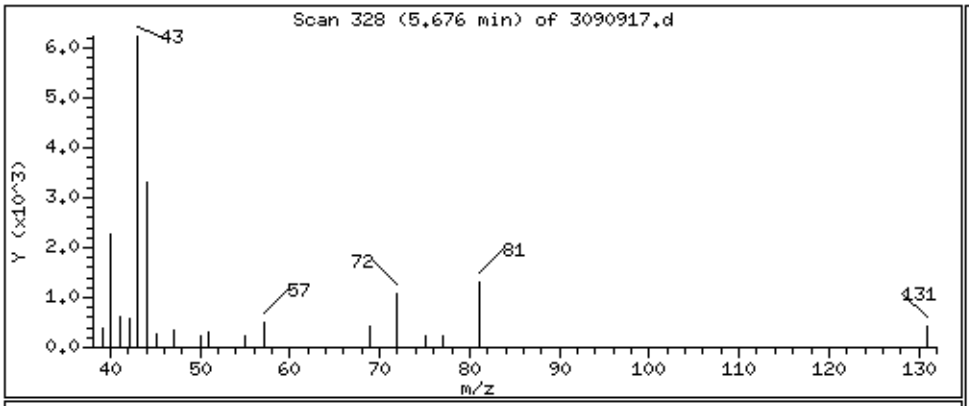
Operator: LD

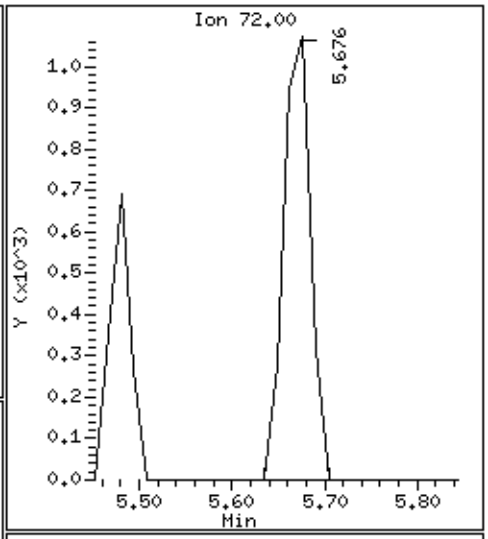
Column phase: RTX-624

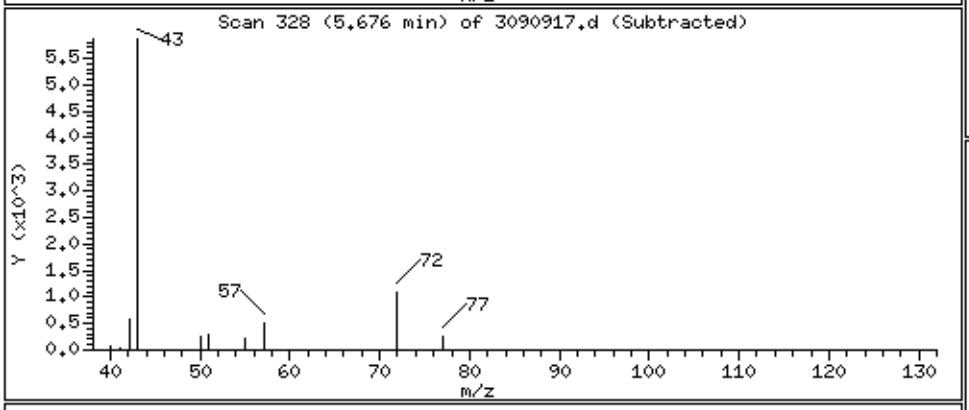
Column diameter: 0.25

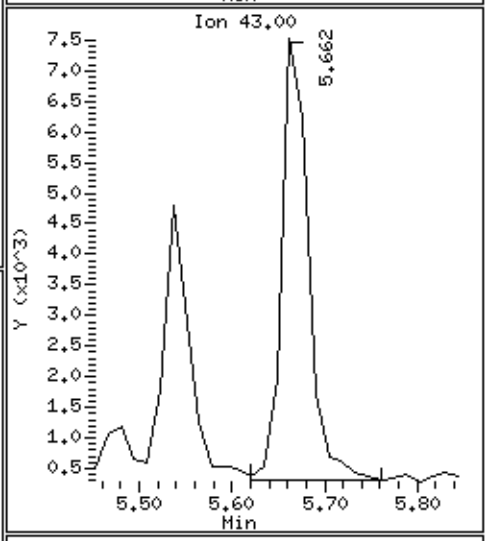
86 2-Butanone

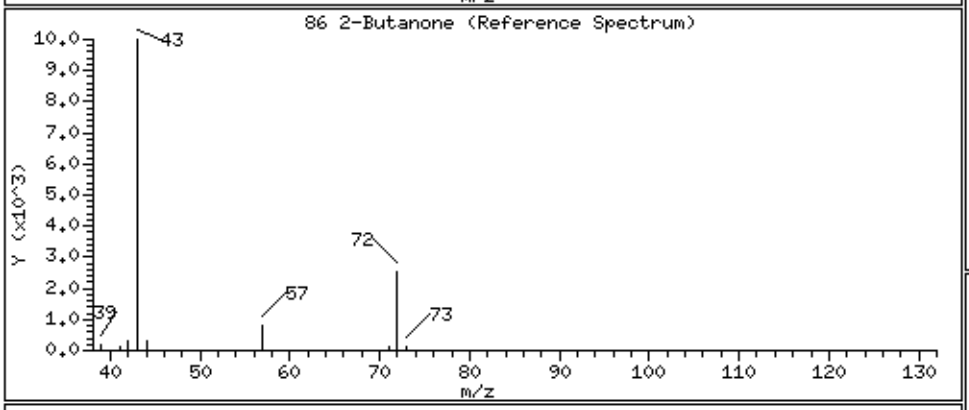
Concentration: 1.670 PPBV

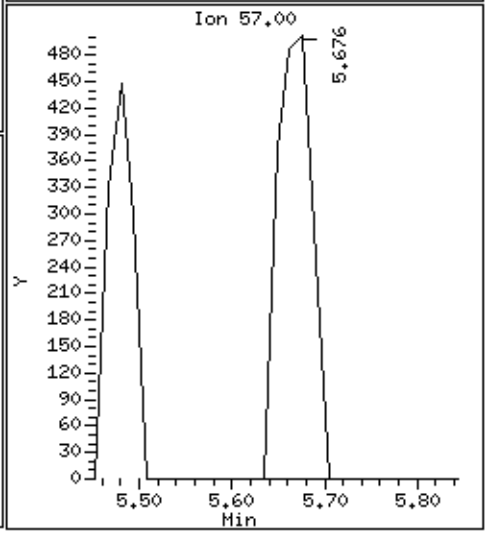


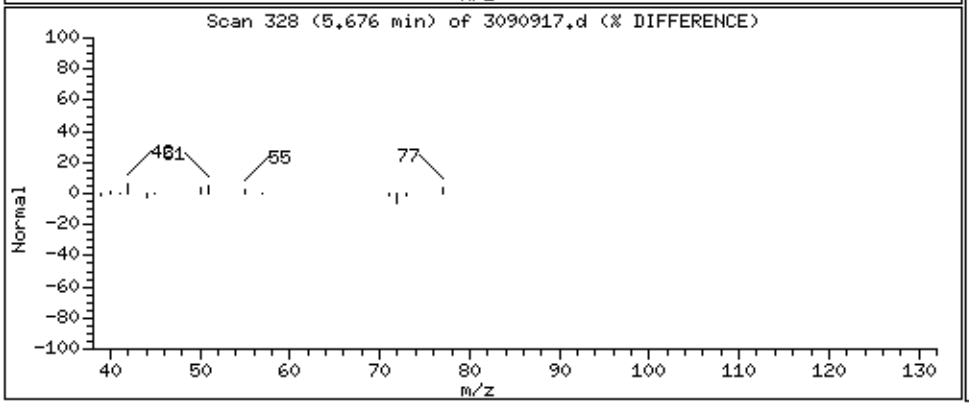












Data File: /chem/msd3.i/09SEP21.b/3090917.d

Page 11

Date : 09-SEP-2021 19:42

Client ID:

Instrument: msd3.i

Sample Info: 200mL 00843

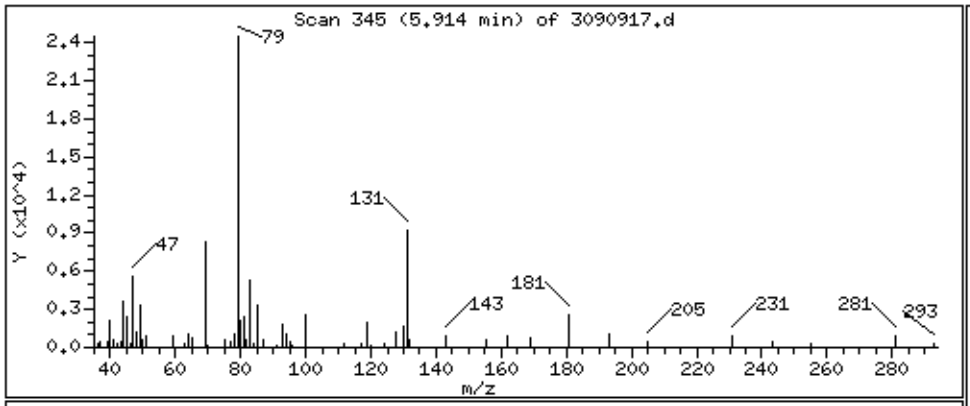
Operator: LD

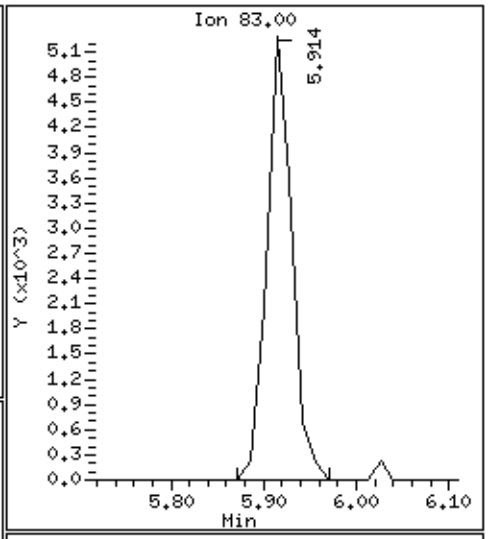
Column phase: RTX-624

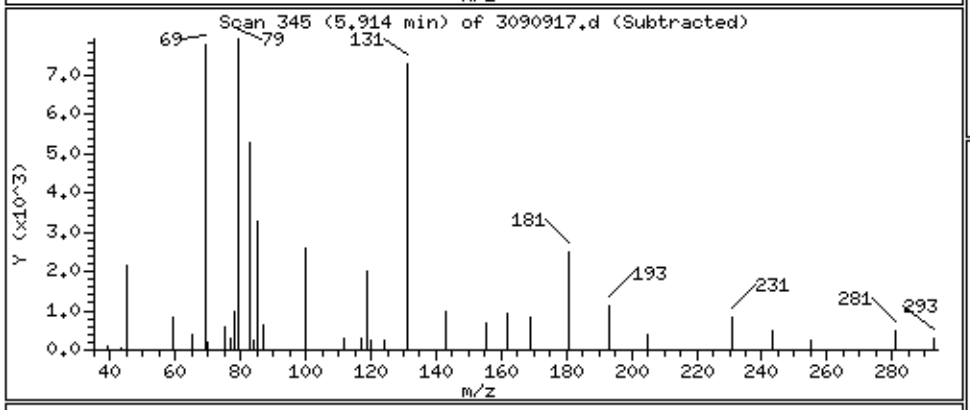
Column diameter: 0.25

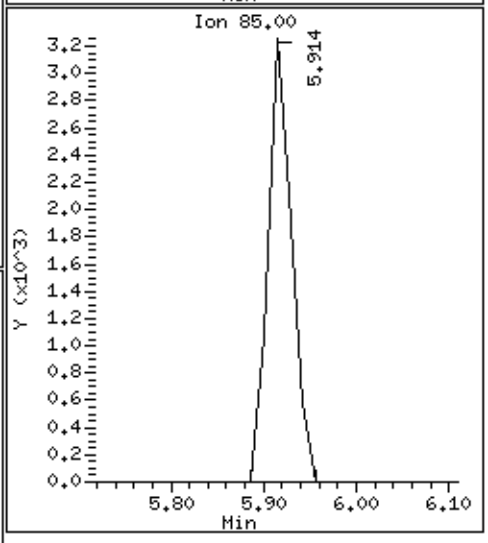
92 Chloroform

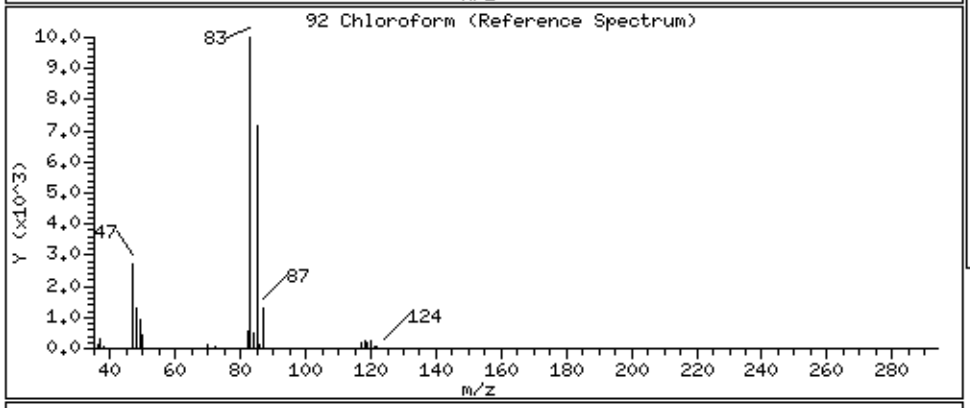
Concentration: 1.758 PPBV

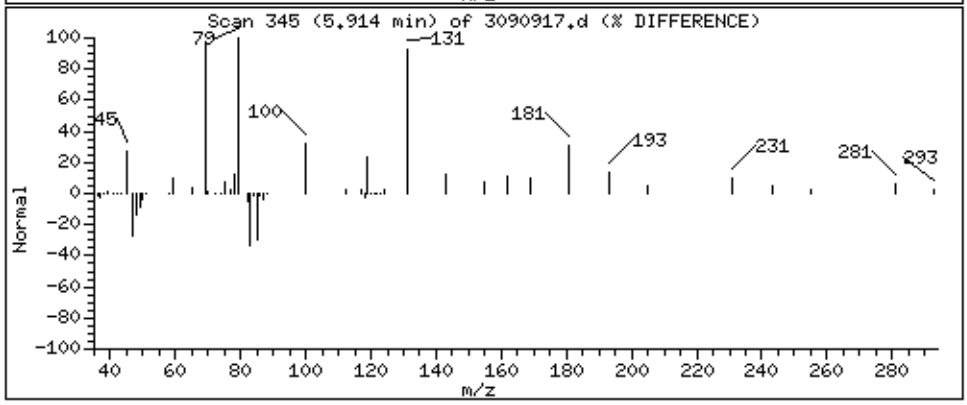












Data File: /chem/msd3.i/09SEP21.b/3090917.d

Date : 09-SEP-2021 19:42

Client ID:

Instrument: msd3.i

Sample Info: 200mL 00843

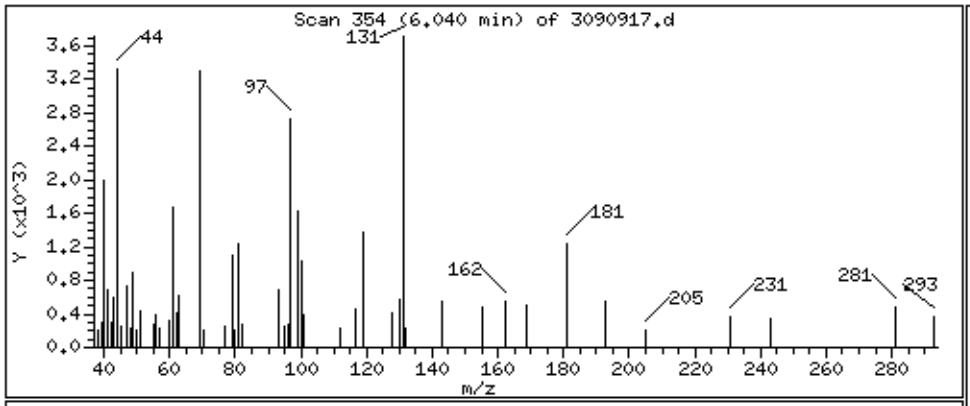
Operator: LD

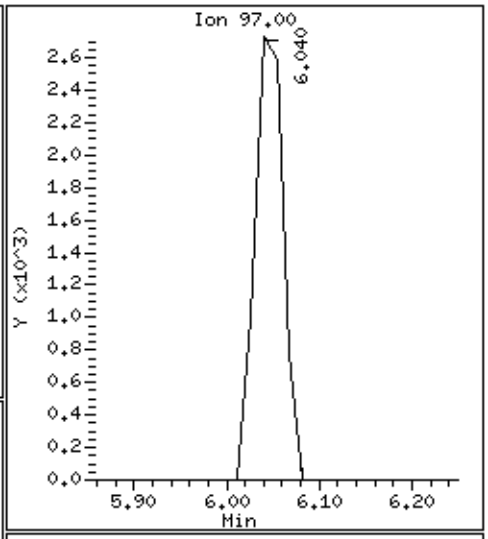
Column phase: RTX-624

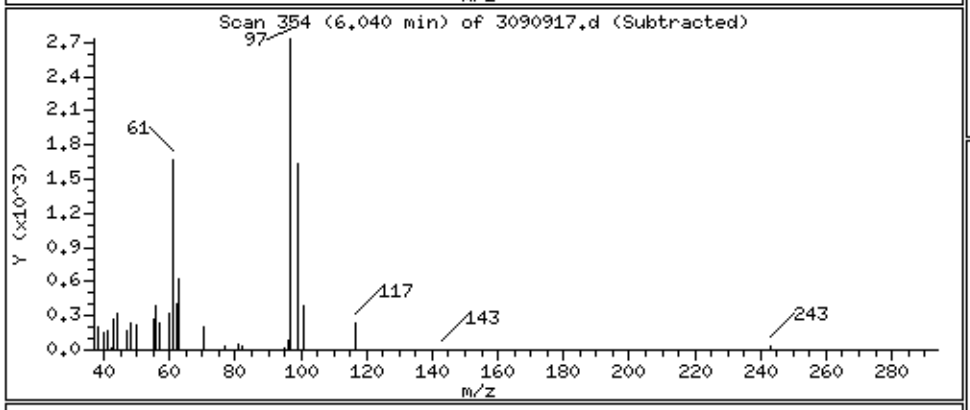
Column diameter: 0.25

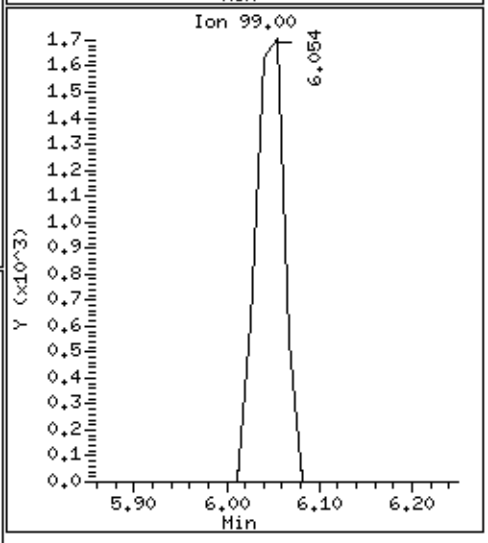
96 1,1,1-Trichloroethane

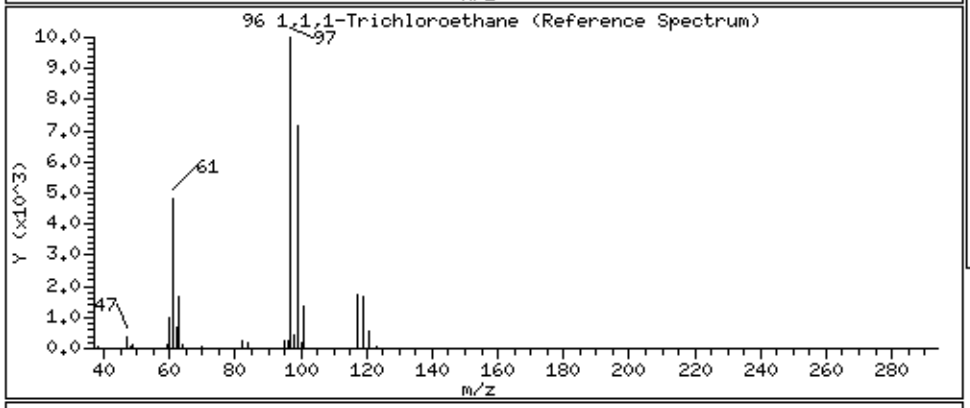
Concentration: 0.9541 PPBV

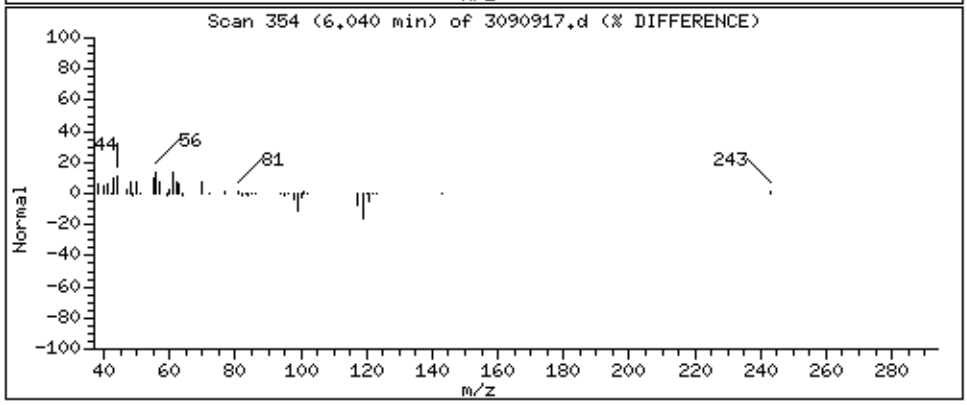












Data File: /chem/msd3.i/09SEP21.b/3090917.d

Date : 09-SEP-2021 19:42

Client ID:

Instrument: msd3.i

Sample Info: 200mL 00843

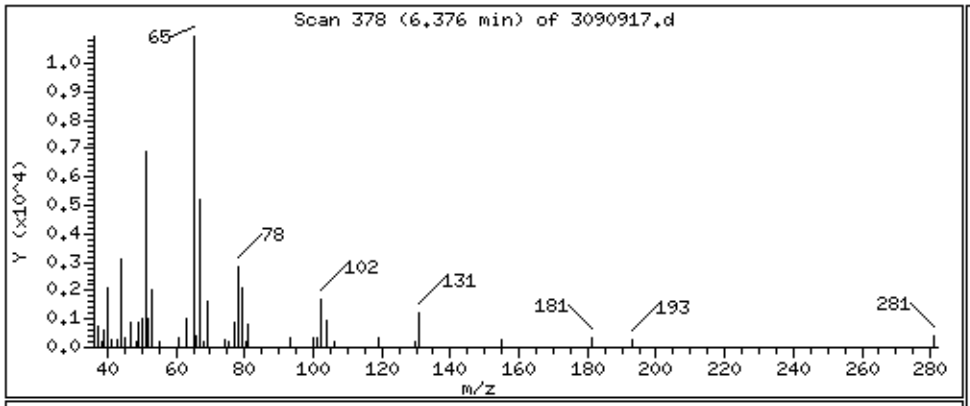
Operator: LD

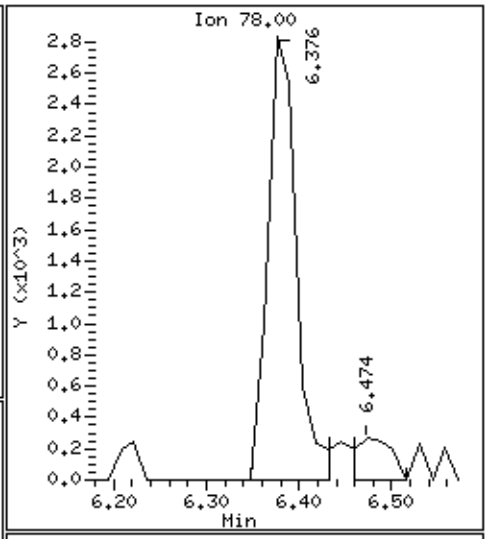
Column phase: RTX-624

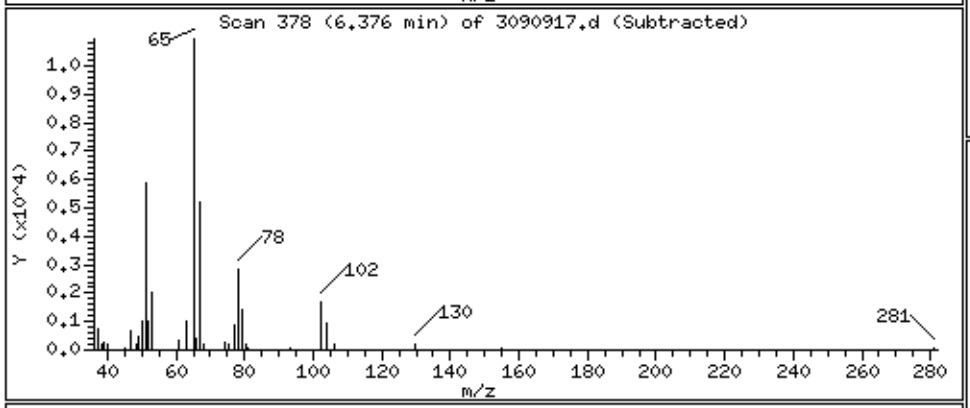
Column diameter: 0.25

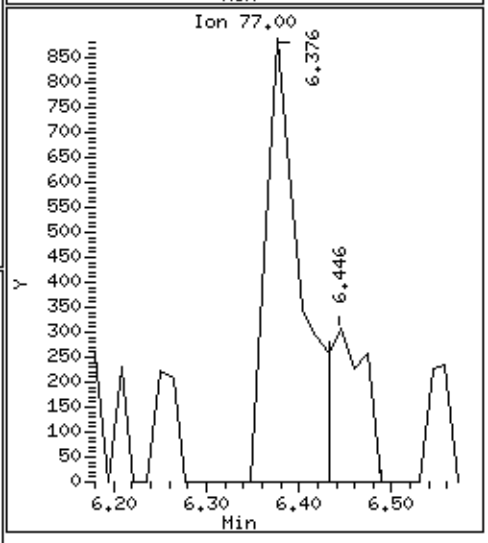
102 Benzene

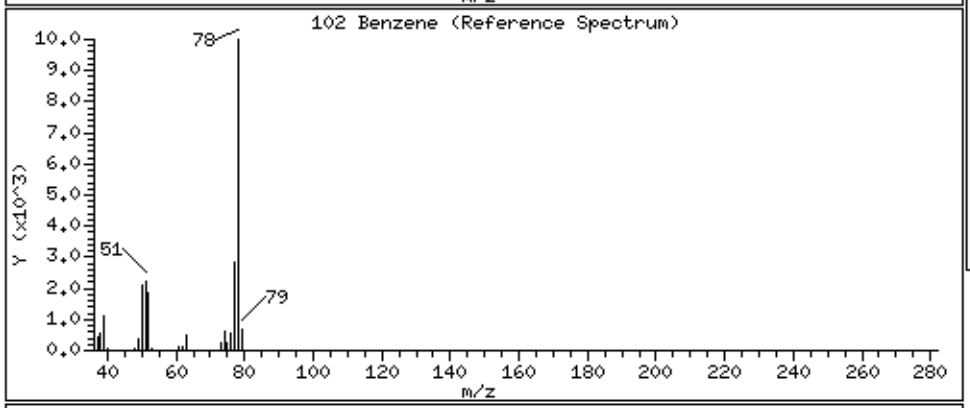
Concentration: 0.8204 PPBV

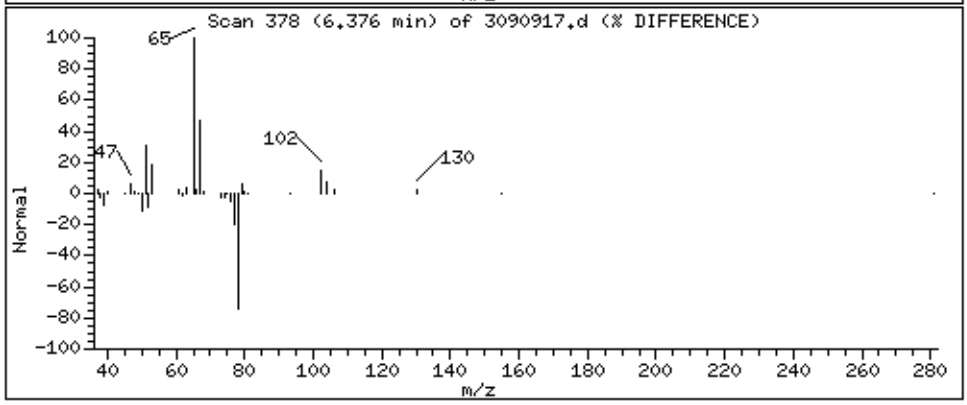












Data File: /chem/msd3.i/09SEP21.b/3090917.d

Date : 09-SEP-2021 19:42

Client ID:

Instrument: msd3.i

Sample Info: 200mL 00843

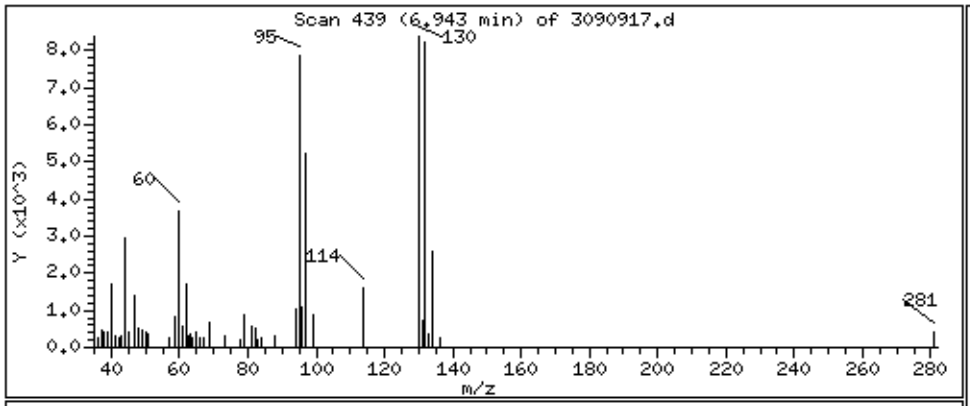
Operator: LD

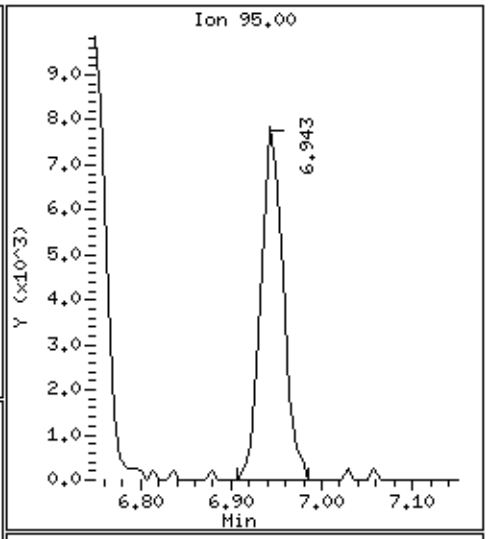
Column phase: RTX-624

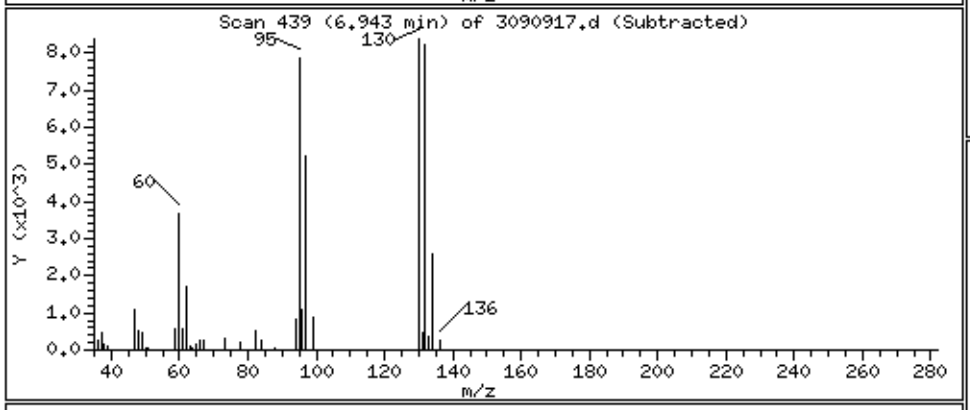
Column diameter: 0.25

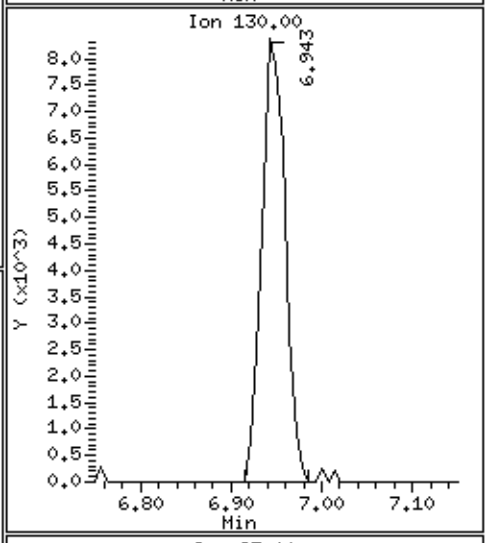
111 Trichloroethene

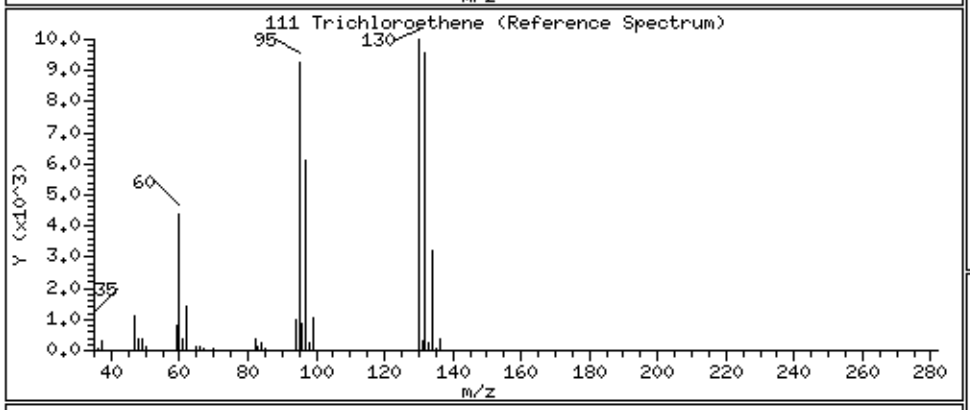
Concentration: 3.678 PPBV

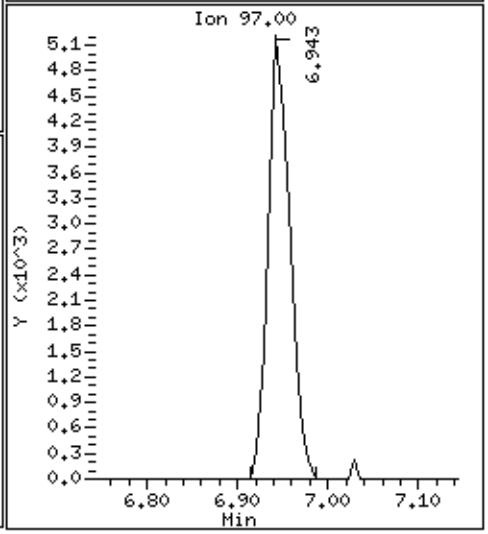


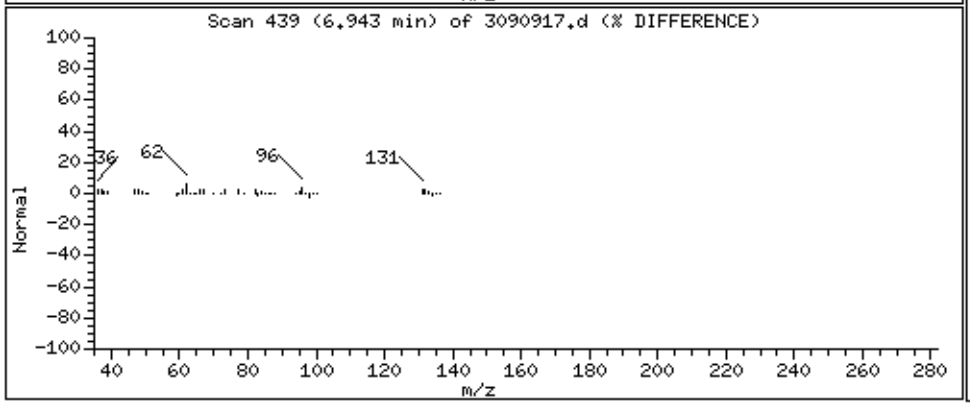












Data File: /chem/msd3.i/09SEP21.b/3090917.d

Date : 09-SEP-2021 19:42

Client ID:

Instrument: msd3.i

Sample Info: 200mL 00843

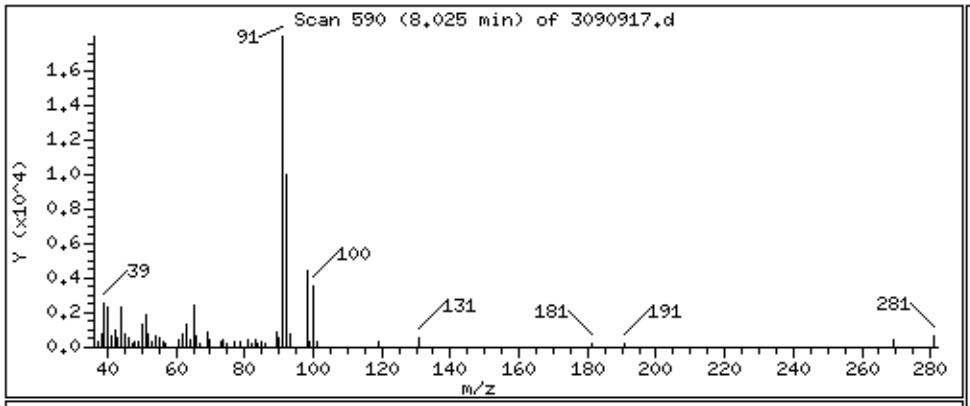
Operator: LD

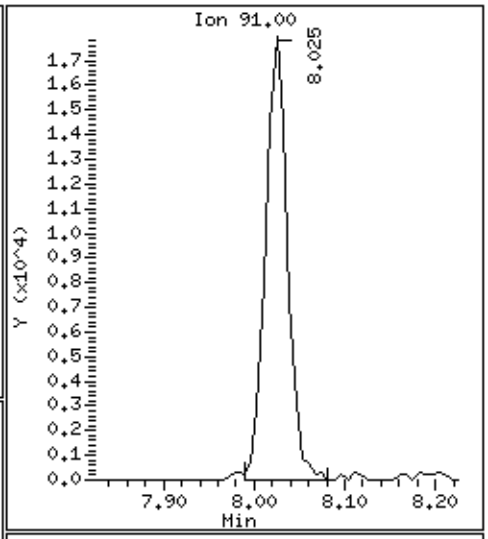
Column phase: RTX-624

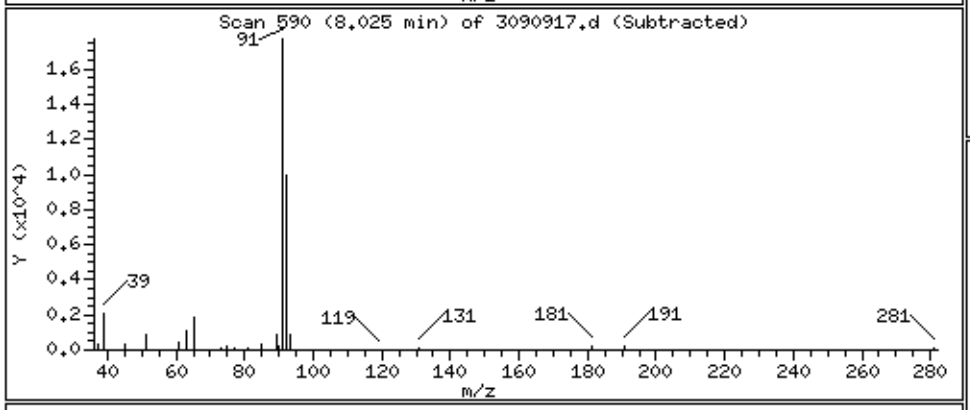
Column diameter: 0.25

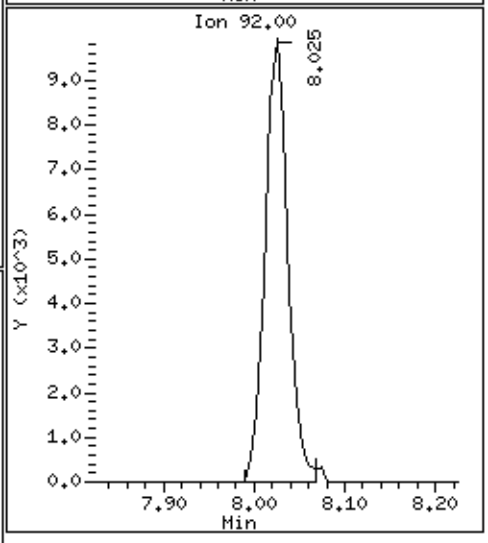
137 Toluene

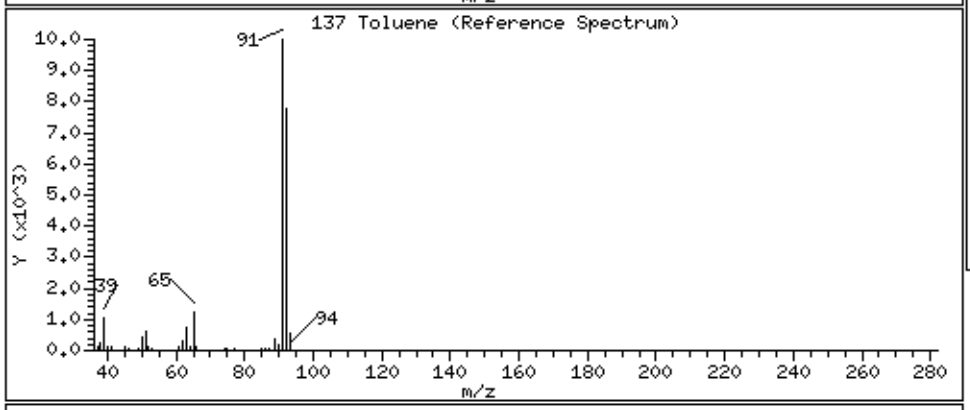
Concentration: 3.054 PPBV

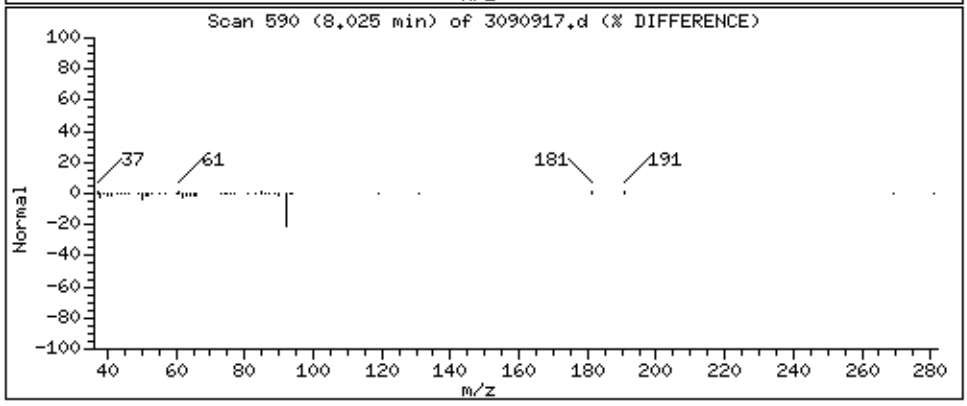












Data File: /chem/msd3.i/09SEP21.b/3090917.d

Date : 09-SEP-2021 19:42

Client ID:

Instrument: msd3.i

Sample Info: 200mL 00843

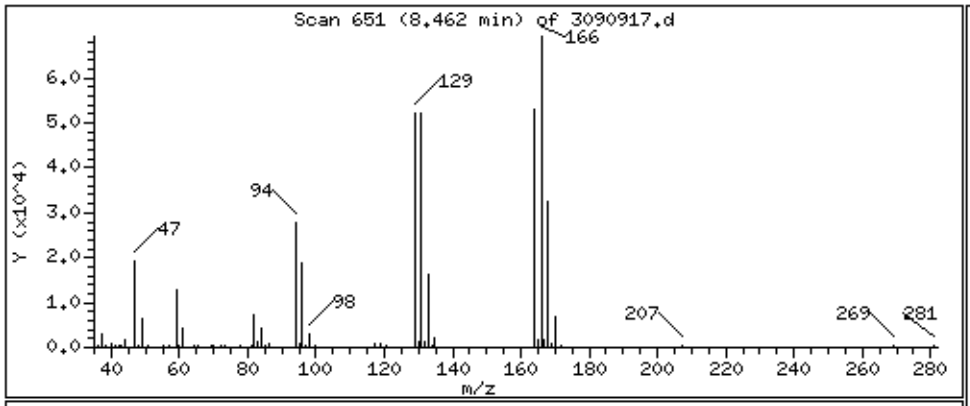
Operator: LD

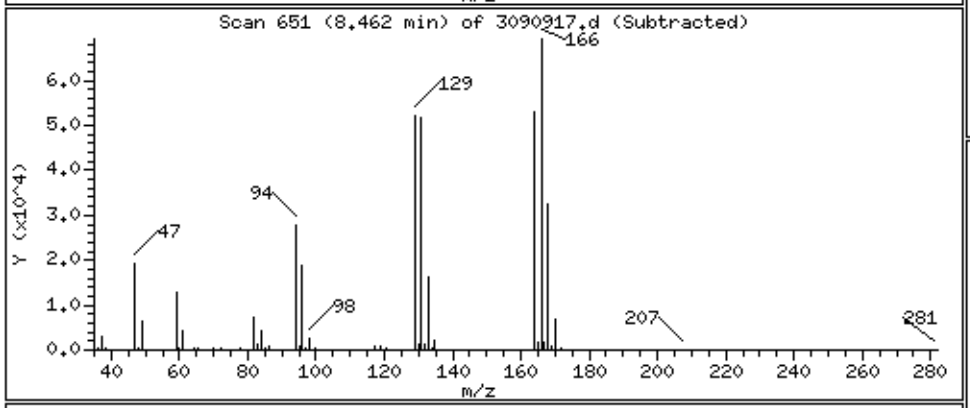
Column phase: RTX-624

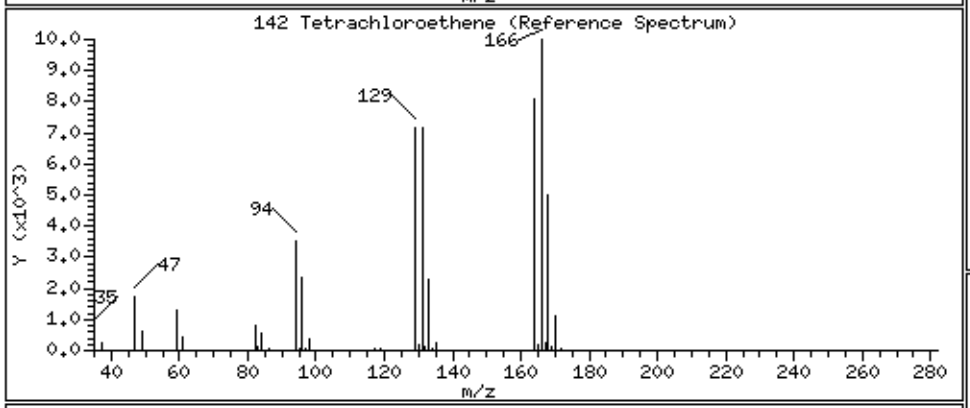
Column diameter: 0.25

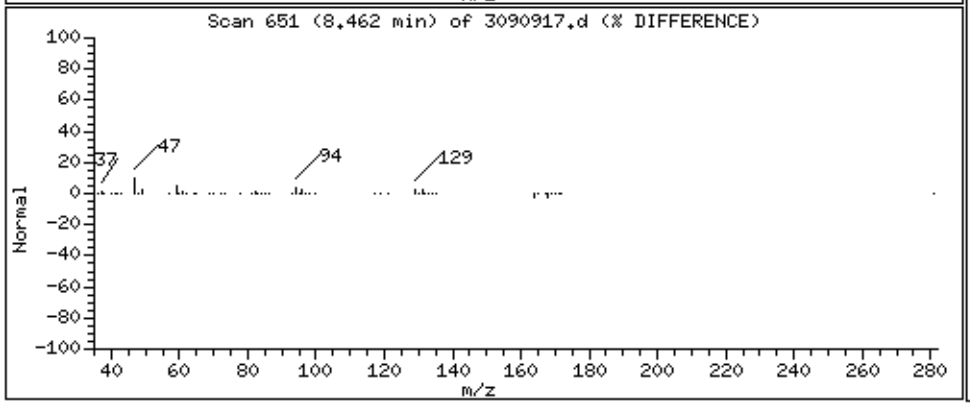
142 Tetrachloroethene

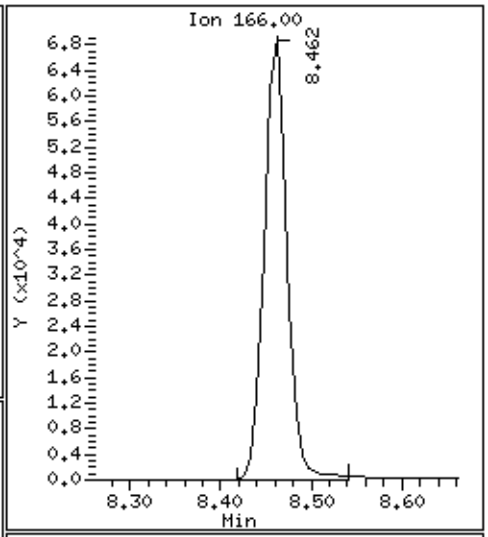
Concentration: 21.861 PPBV

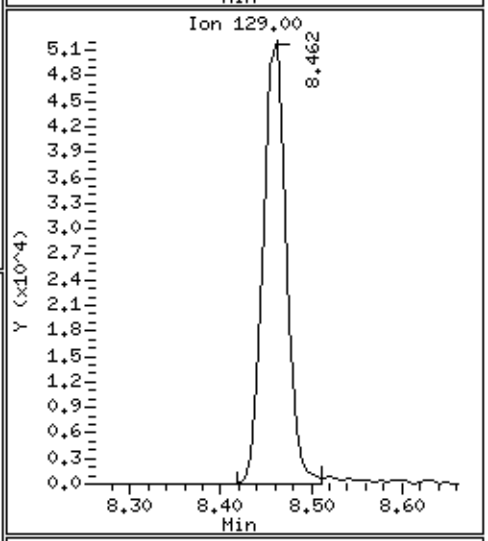


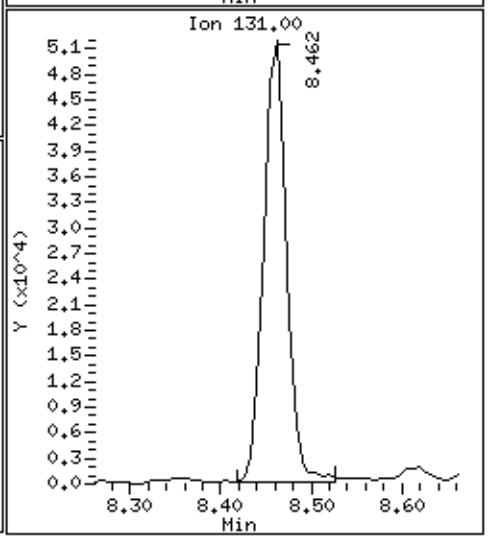












Data File: /chem/msd3.i/09SEP21.b/3090917.d

Date : 09-SEP-2021 19:42

Client ID:

Instrument: msd3.i

Sample Info: 200mL 00843

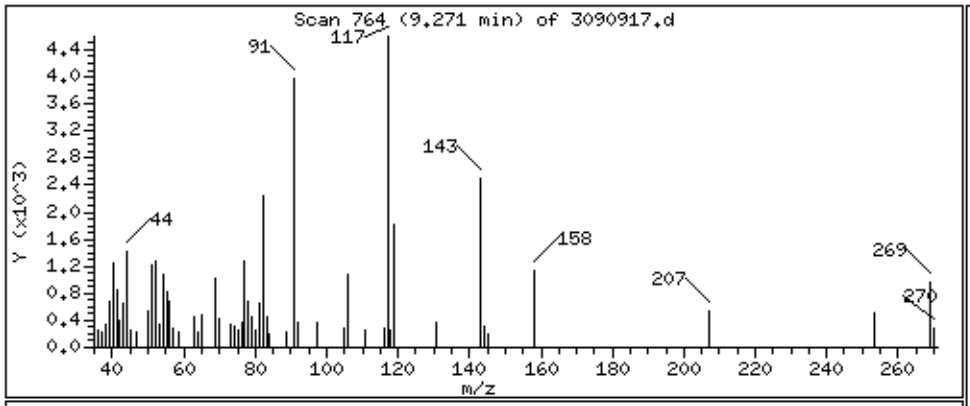
Operator: LD

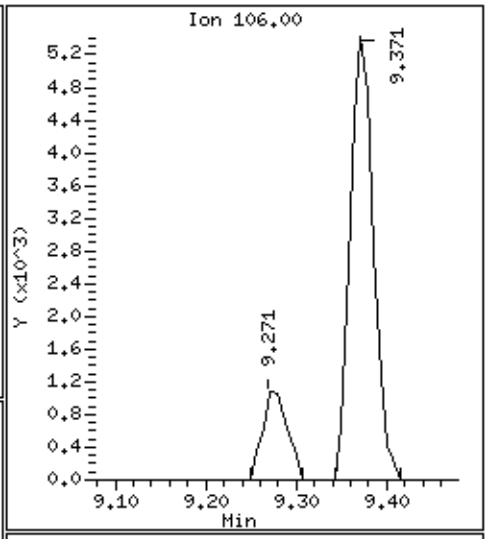
Column phase: RTX-624

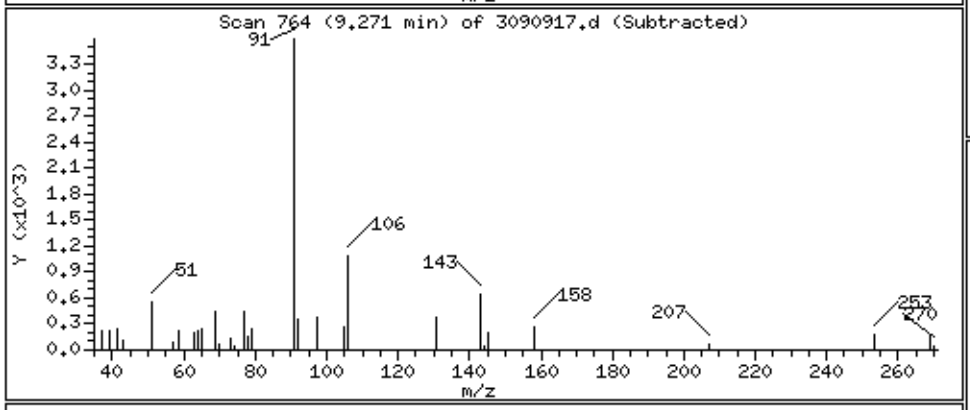
Column diameter: 0.25

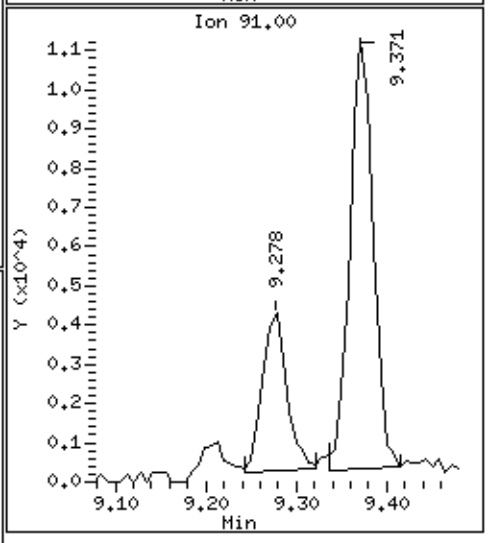
155 Ethyl Benzene

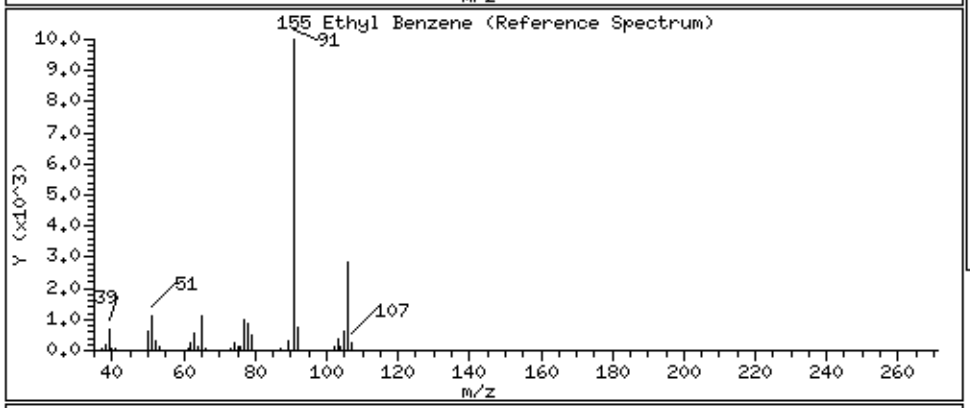
Concentration: 0.4410 PPBV

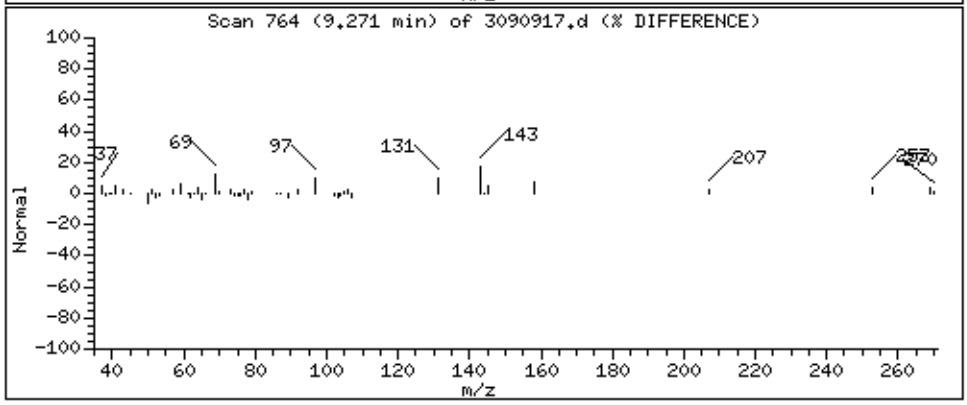












Data File: /chem/msd3.i/09SEP21.b/3090917.d

Date : 09-SEP-2021 19:42

Client ID:

Instrument: msd3.i

Sample Info: 200mL 00843

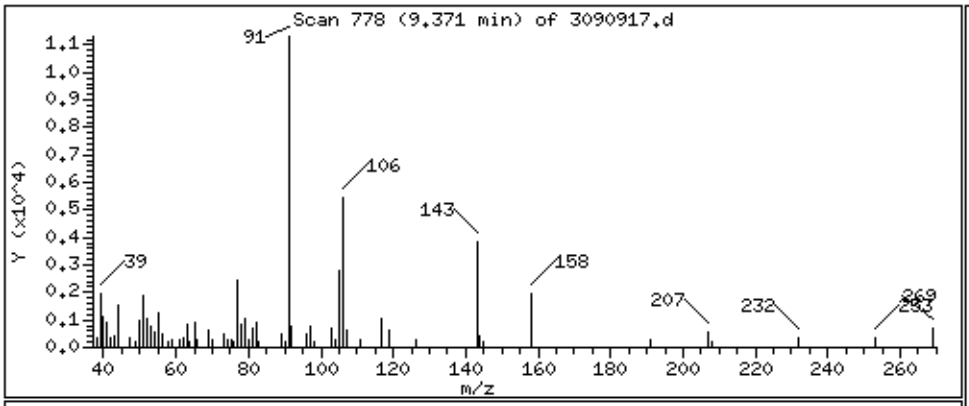
Operator: LD

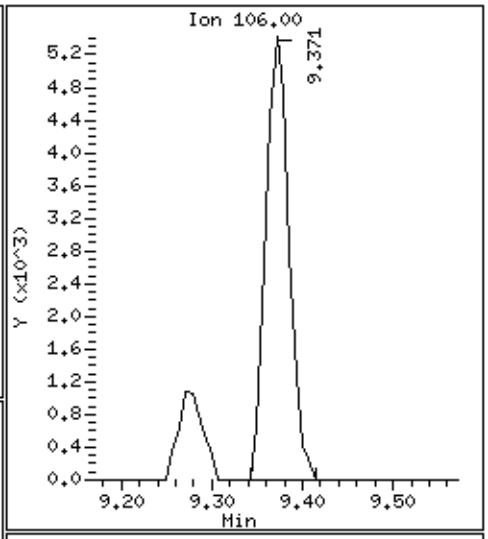
Column phase: RTX-624

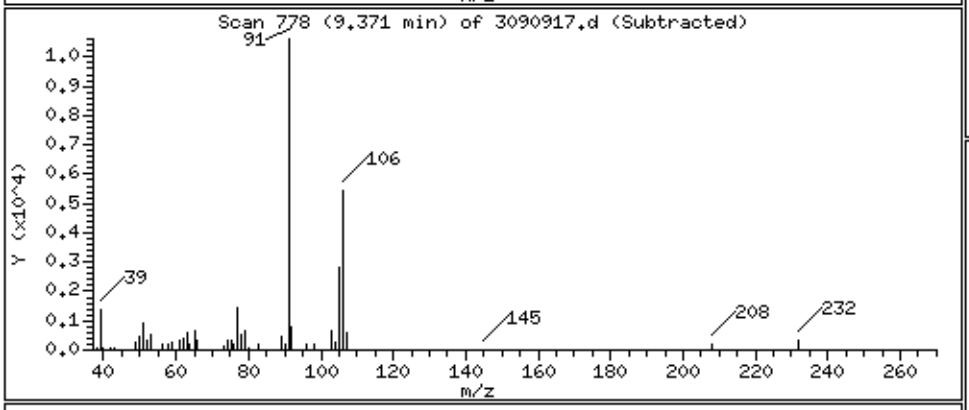
Column diameter: 0.25

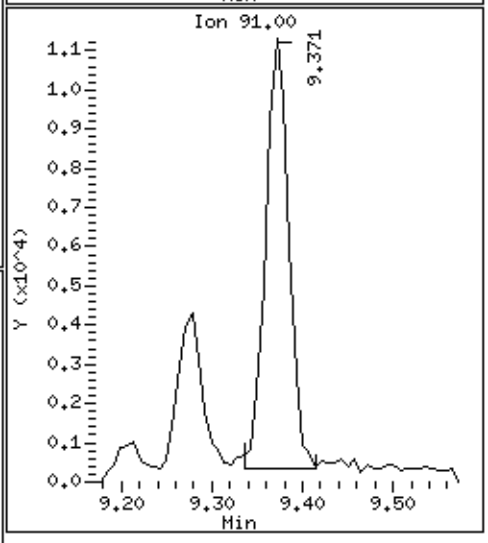
158 m,p-Xylene

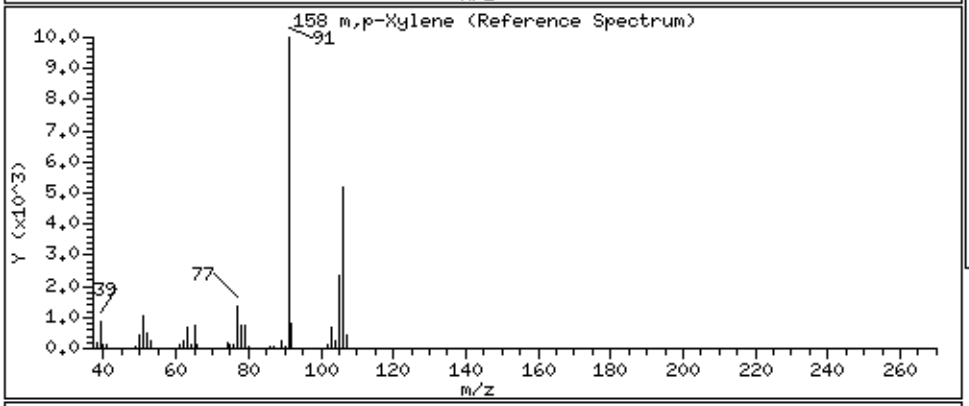
Concentration: 1.698 PPBV

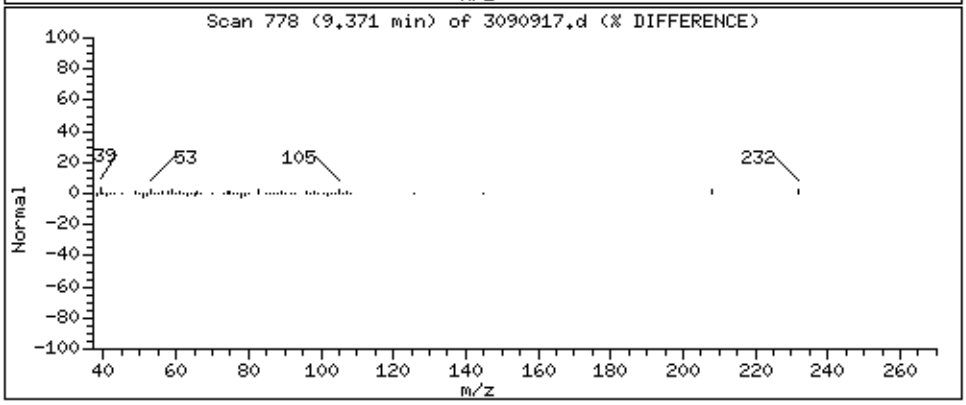












Data File: /chem/msd3.i/09SEP21.b/3090917.d

Date : 09-SEP-2021 19:42

Client ID:

Instrument: msd3.i

Sample Info: 200mL 00843

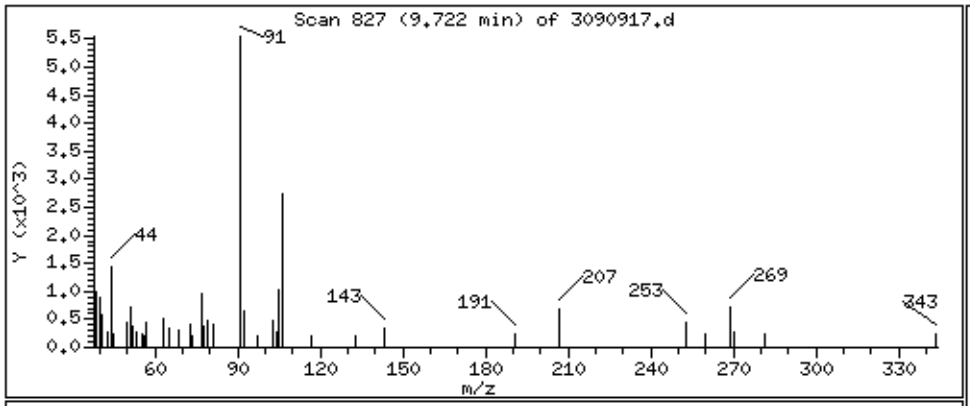
Operator: LD

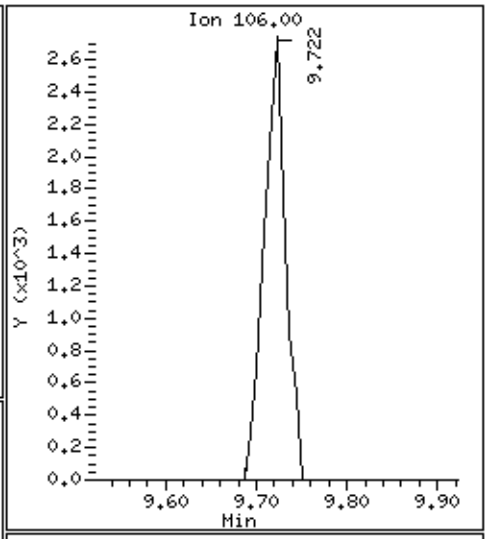
Column phase: RTX-624

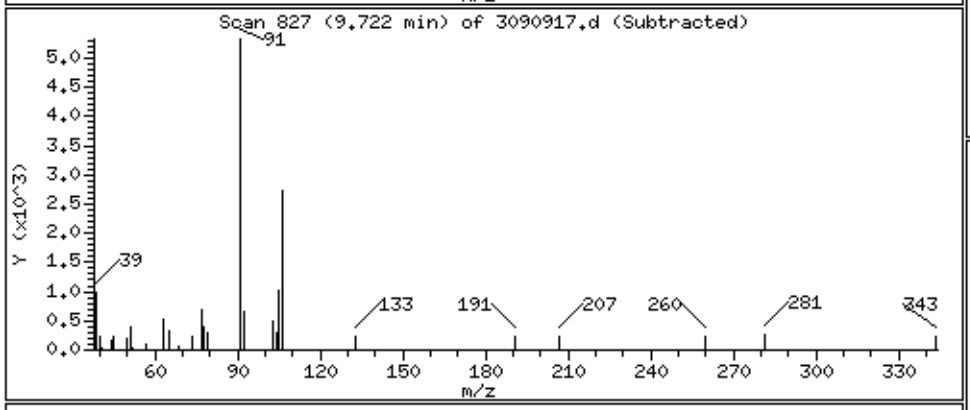
Column diameter: 0.25

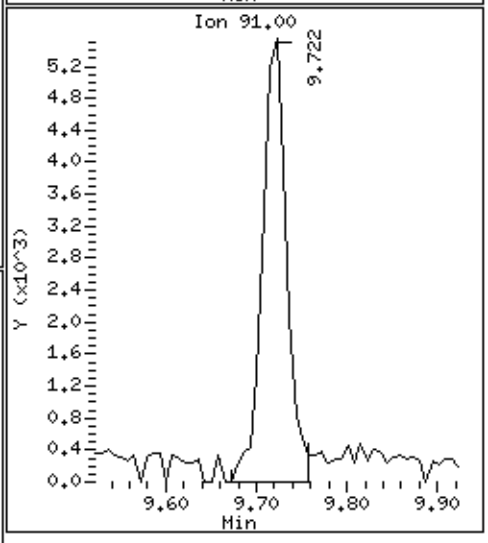
164 o-Xylene

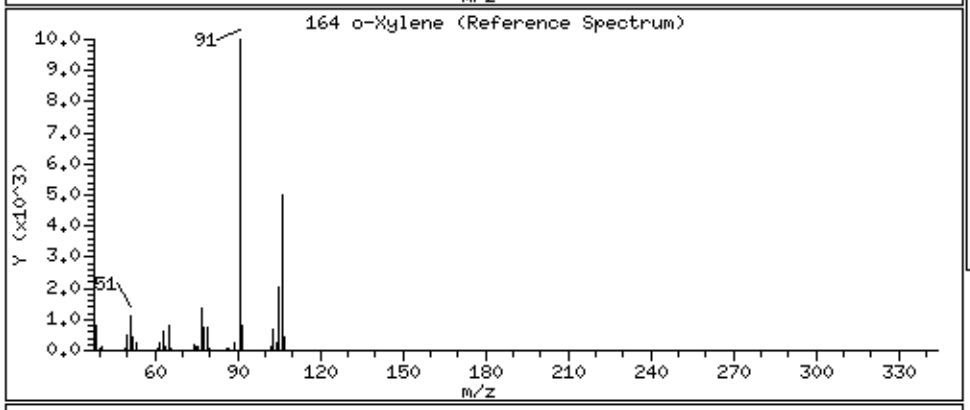
Concentration: 0.8332 PPBV

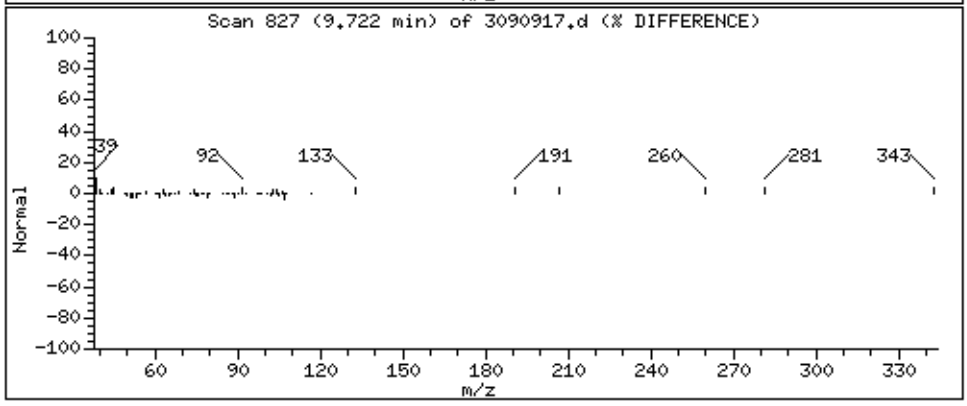












Data File: /chem/msd3.i/09SEP21.b/3090917.d

Date : 09-SEP-2021 19:42

Client ID:

Instrument: msd3.i

Sample Info: 200mL 00843

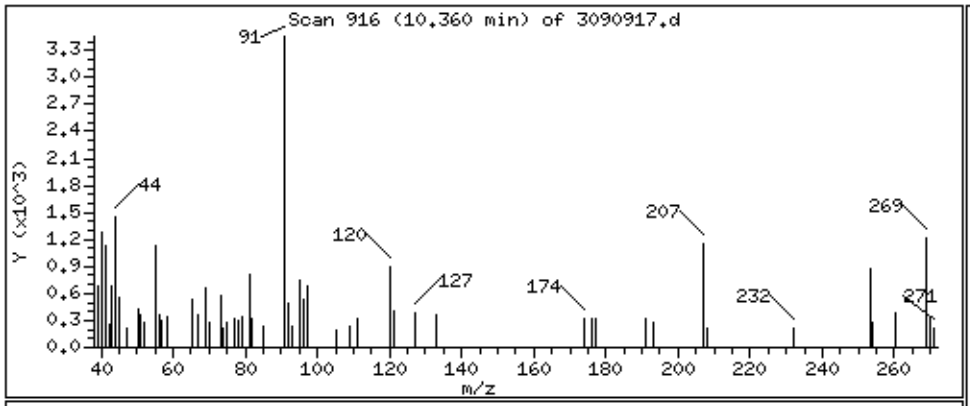
Operator: LD

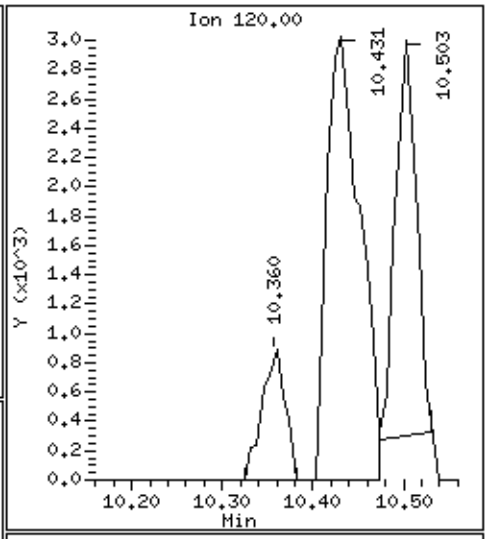
Column phase: RTX-624

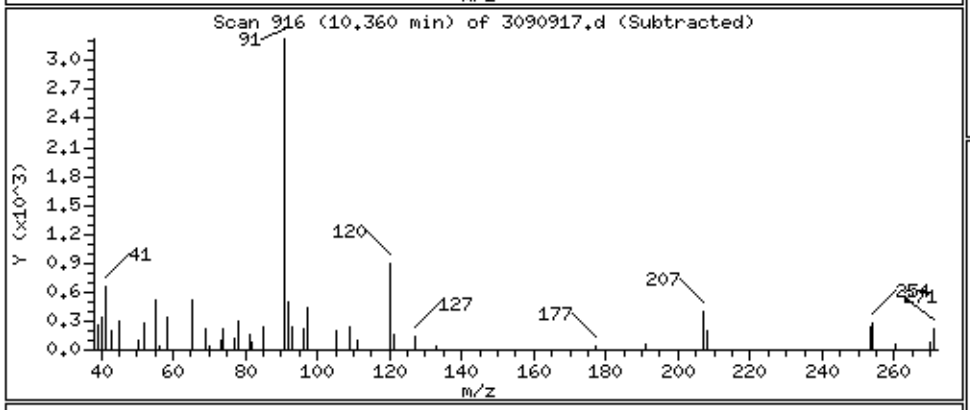
Column diameter: 0.25

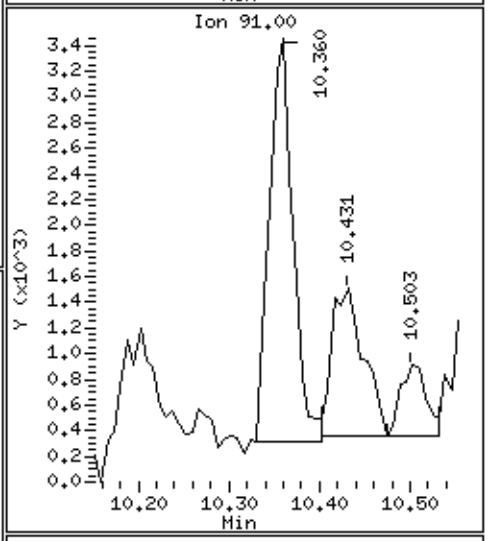
178 Propylbenzene

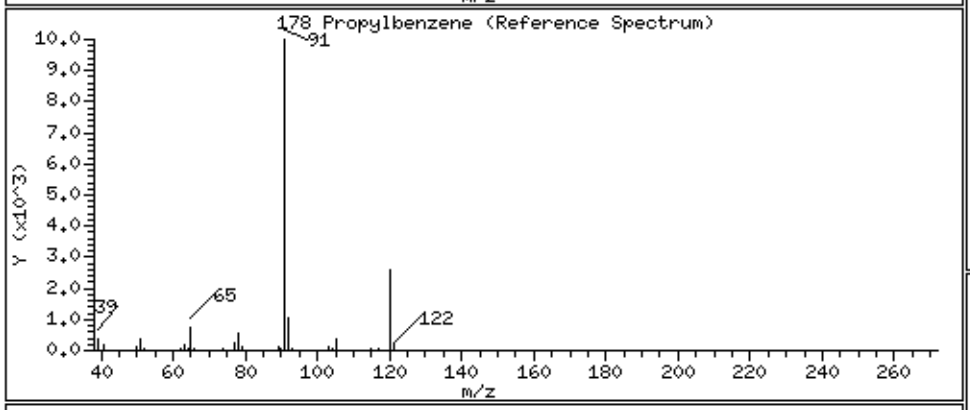
Concentration: 0.3195 PPBV

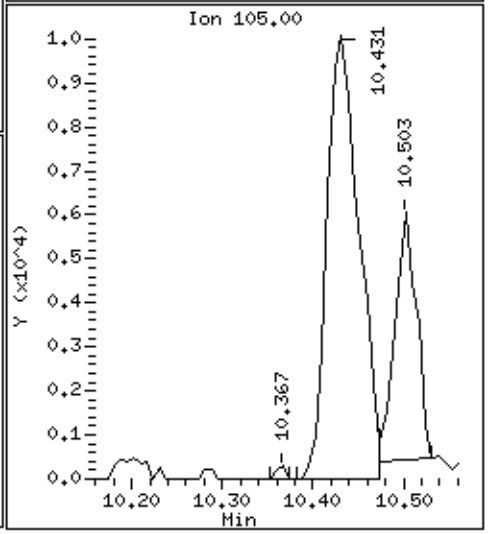


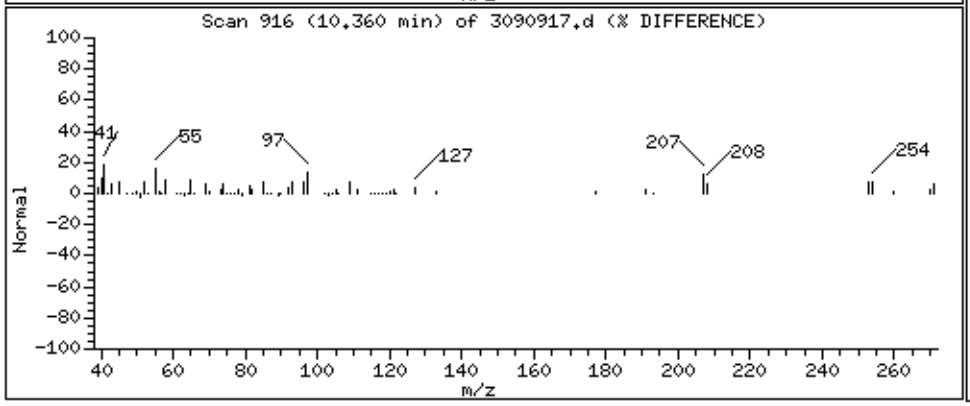












Data File: /chem/msd3.i/09SEP21.b/3090917.d

Date : 09-SEP-2021 19:42

Client ID:

Instrument: msd3.i

Sample Info: 200mL 00843

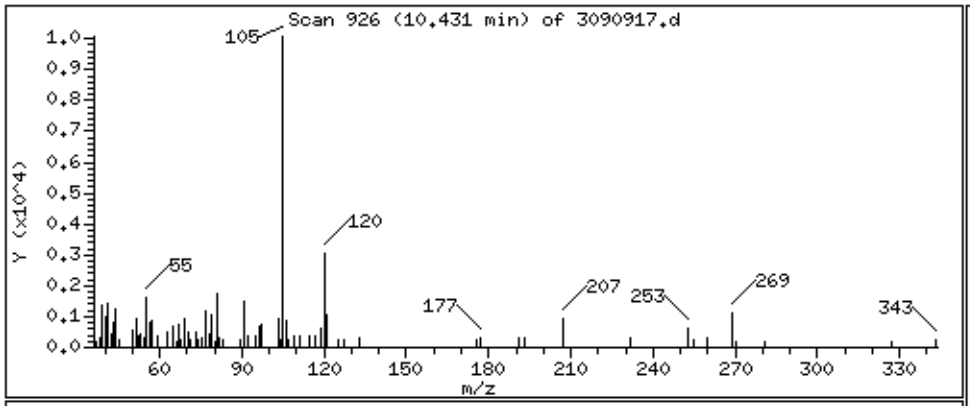
Operator: LD

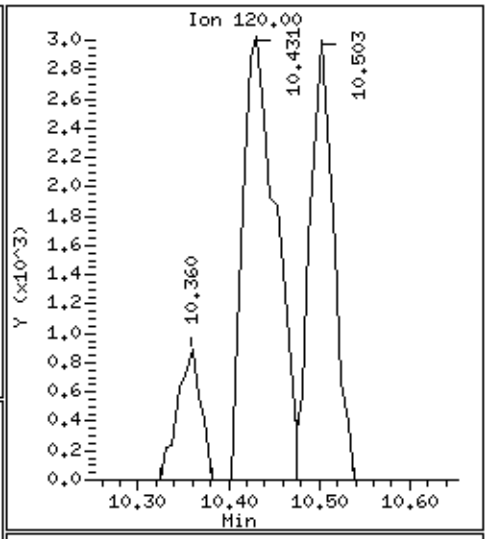
Column phase: RTX-624

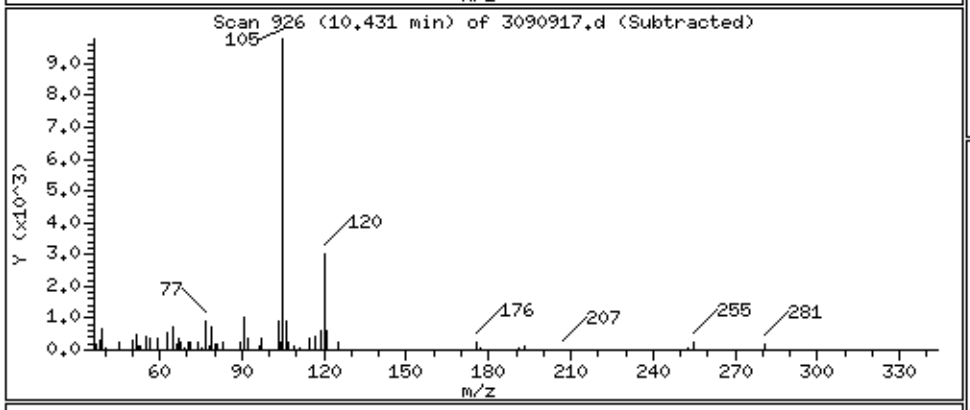
Column diameter: 0.25

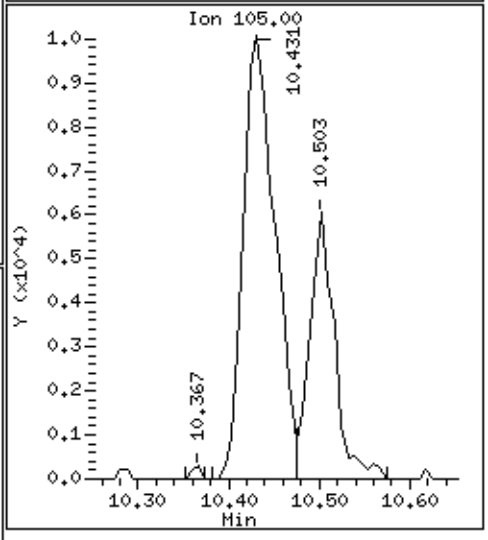
183 4-Ethyltoluene

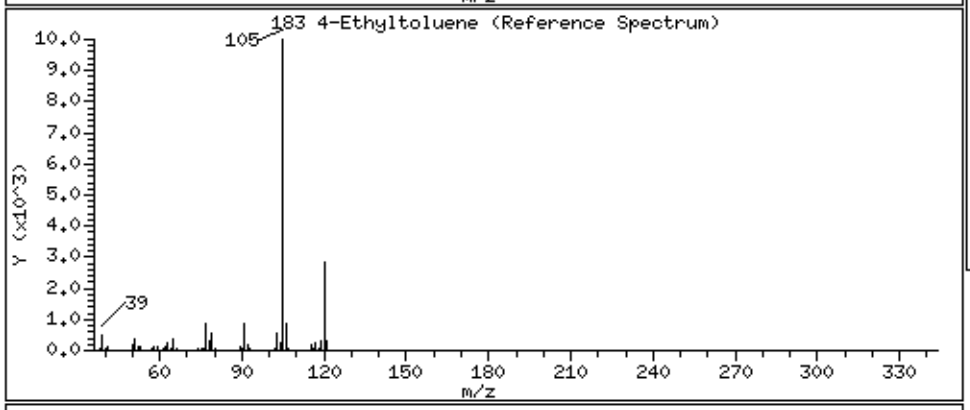
Concentration: 1.452 PPBV

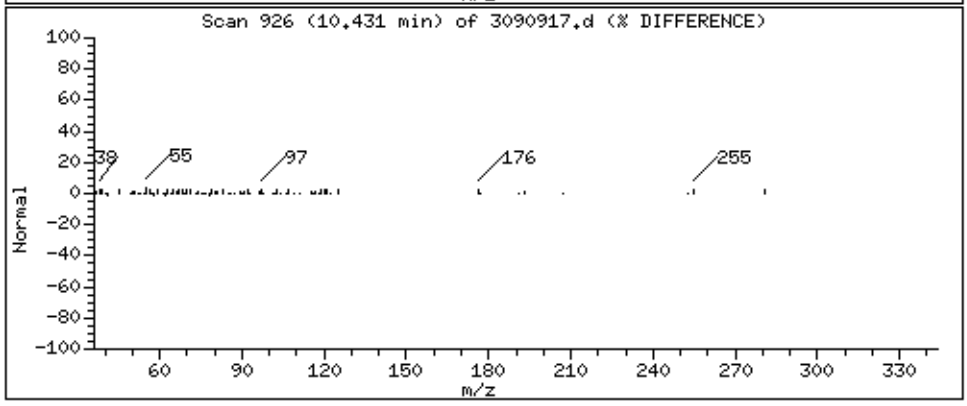












Data File: /chem/msd3.i/09SEP21.b/3090917.d

Date : 09-SEP-2021 19:42

Client ID:

Instrument: msd3.i

Sample Info: 200mL 00843

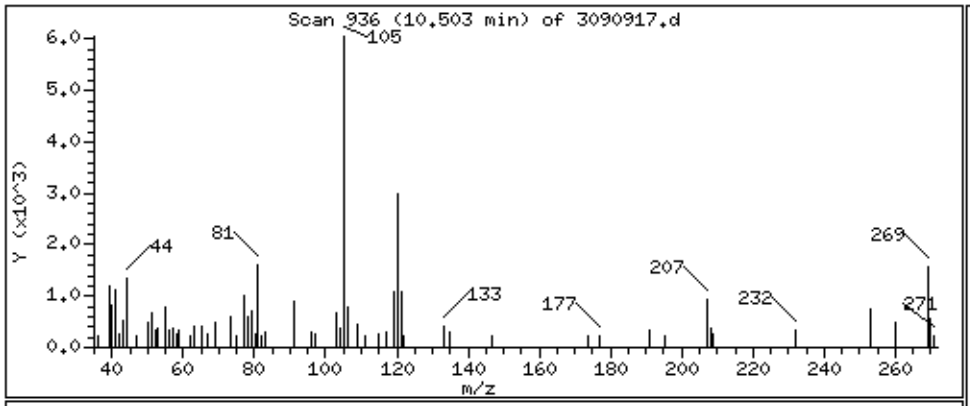
Operator: LD

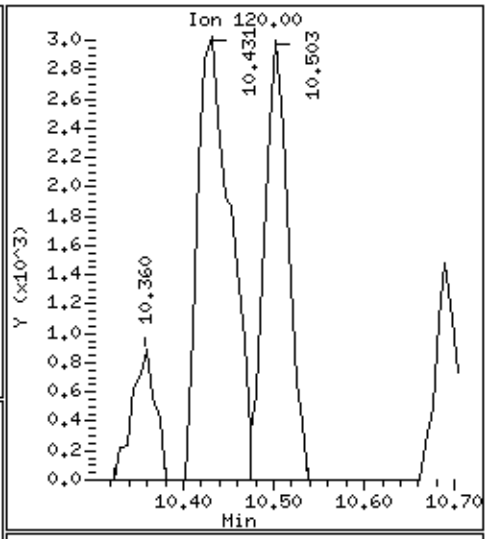
Column phase: RTX-624

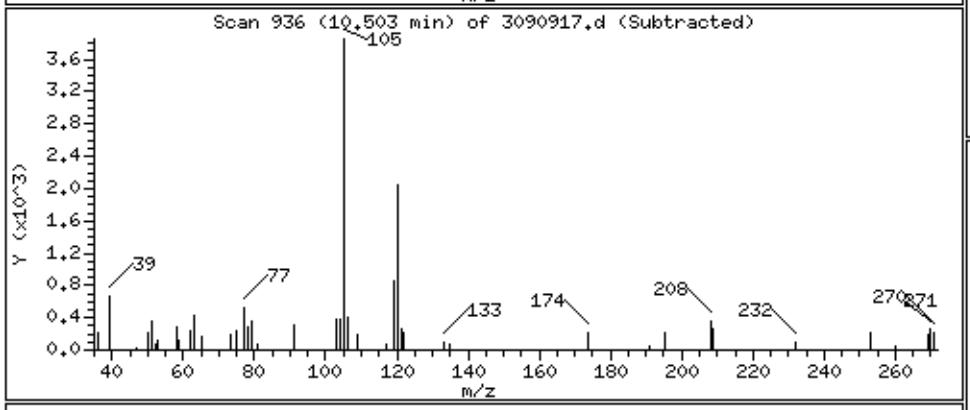
Column diameter: 0.25

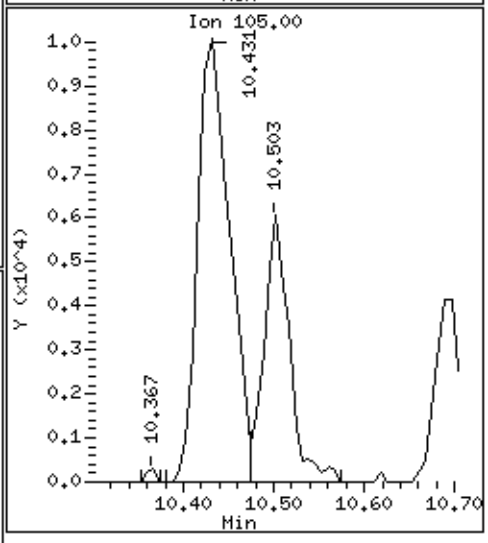
185 1,3,5-Trimethylbenzene

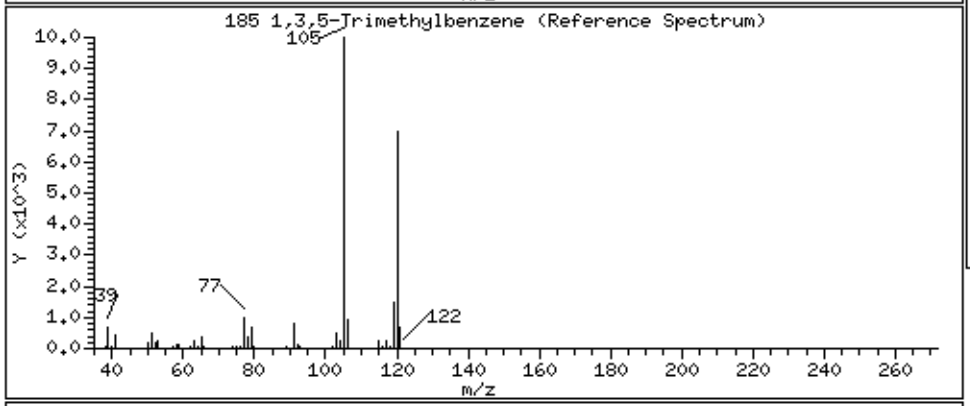
Concentration: 0.7490 PPBV

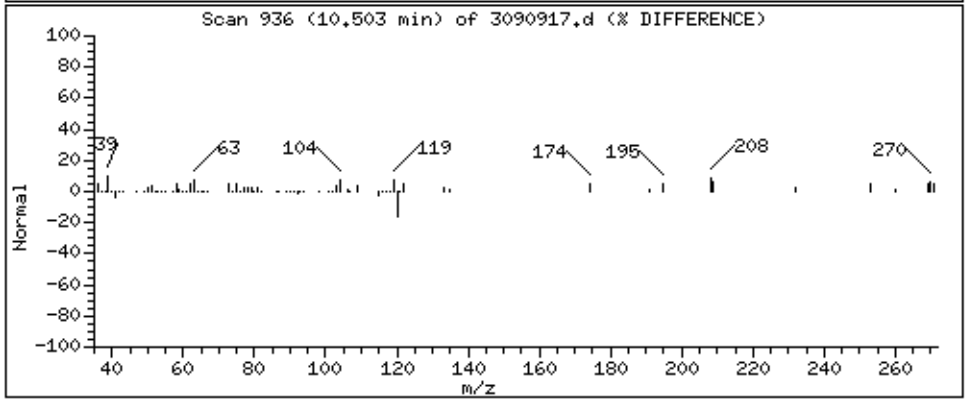












Data File: /chem/msd3.i/09SEP21.b/3090917.d

Date : 09-SEP-2021 19:42

Client ID:

Instrument: msd3.i

Sample Info: 200mL 00843

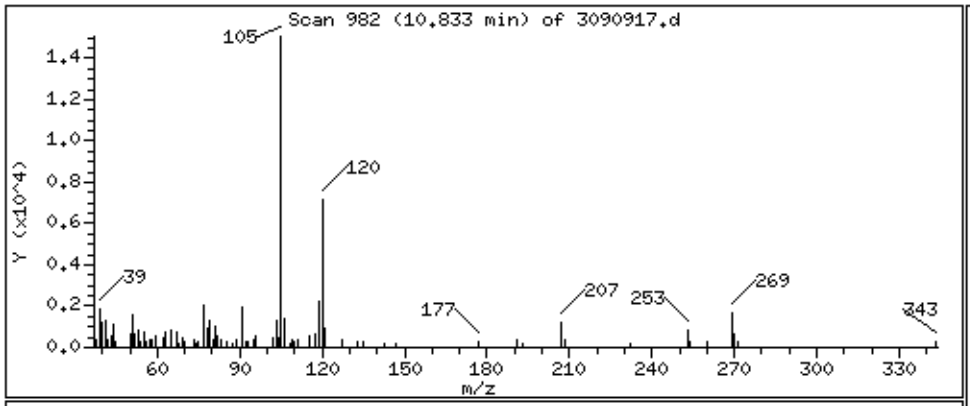
Operator: LD

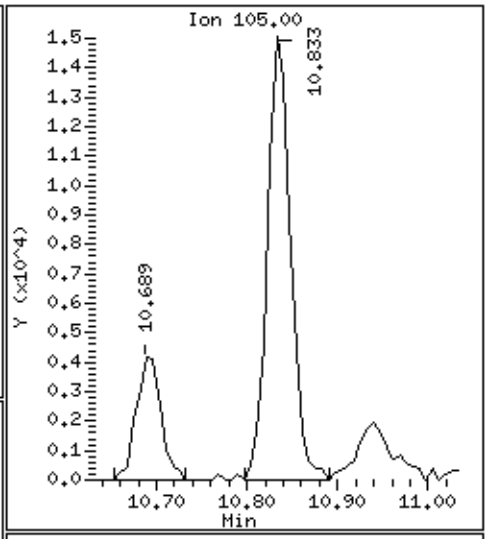
Column phase: RTX-624

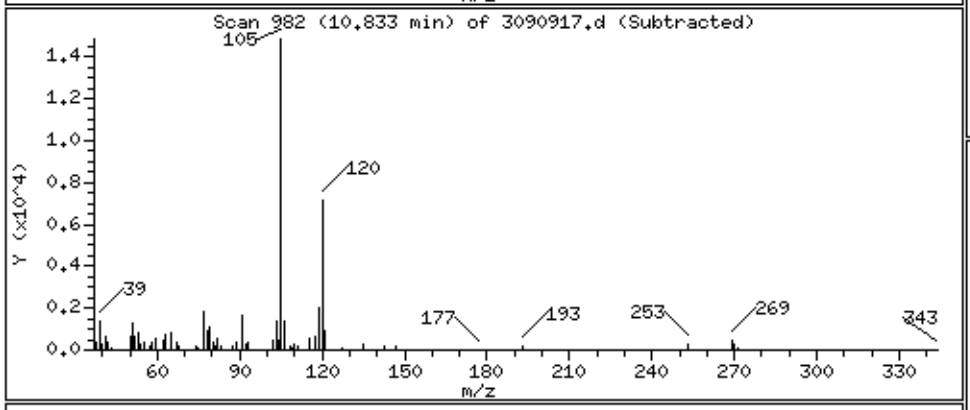
Column diameter: 0.25

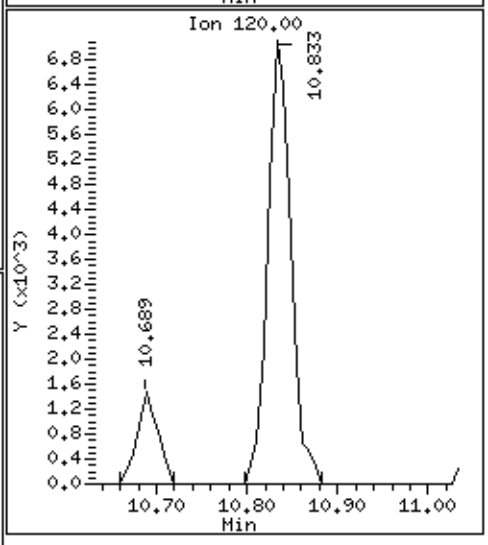
190 1,2,4-Trimethylbenzene

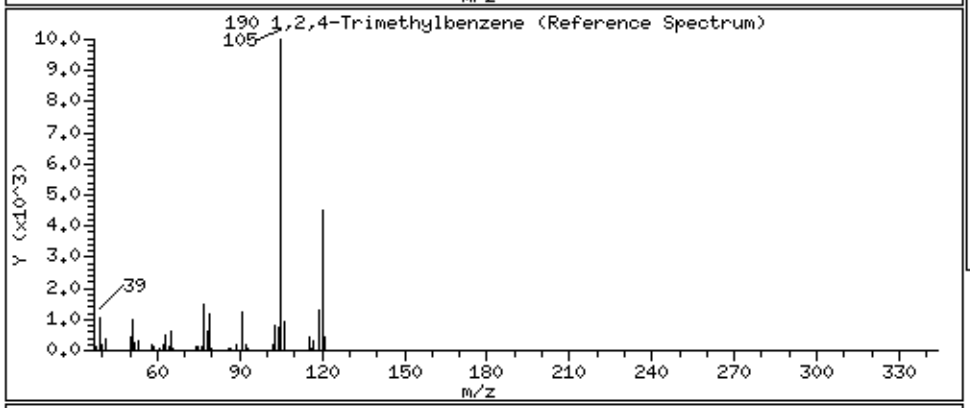
Concentration: 1.866 PPBV

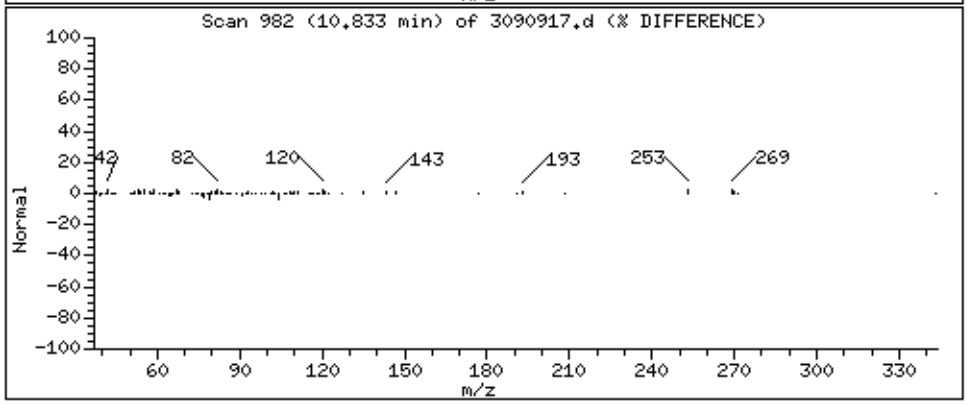












QC Results and Raw Data

Client ID:	Lab Blank		
Lab ID:	2108676B-03A	**Date/Time Analyzed:**	9/9/21 02:33 PM
Date/Time Collected:	NA - Not Applicable	**Dilution Factor:**	1.00
Media:	NA - Not Applicable	**Instrument/Filename:**	msd3.i / 3090908c

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1,2-Tetrachloroethane	630-20-6	0.51	D	14	Not Detected
1,1,1-Trichloroethane	71-55-6	0.33	1.4	2.7	Not Detected
1,1,2,2-Tetrachloroethane	79-34-5	0.27	2.0	3.4	Not Detected
1,1,2-Trichloroethane	79-00-5	0.37	1.6	2.7	Not Detected
1,1-Dichloroethane	75-34-3	0.26	1.0	2.0	Not Detected
1,1-Dichloroethene	75-35-4	0.41	1.2	2.0	Not Detected
1,1-Difluoroethane	75-37-6	1.0	D	5.4	Not Detected
1,2,3-Trichloropropane	96-18-4	0.92	D	12	Not Detected
1,2,4-Trichlorobenzene	120-82-1	1.7	9.3	15	Not Detected
1,2,4-Trimethylbenzene	95-63-6	0.91	1.5	2.4	Not Detected
1,2-Dibromo-3-chloropropane	96-12-8	1.8	D	19	Not Detected
1,2-Dibromoethane (EDB)	106-93-4	0.32	2.3	3.8	Not Detected
1,2-Dichlorobenzene	95-50-1	0.26	1.8	3.0	Not Detected
1,2-Dichloroethane	107-06-2	0.41	1.2	2.0	Not Detected
1,2-Dichloropropane	78-87-5	0.78	1.4	2.3	Not Detected
1,3,5-Trimethylbenzene	108-67-8	0.38	1.5	2.4	Not Detected
1,3-Butadiene	106-99-0	0.36	0.66	1.1	Not Detected
1,3-Dichlorobenzene	541-73-1	0.38	1.8	3.0	Not Detected
1,4-Dichlorobenzene	106-46-7	0.19	1.8	3.0	Not Detected
1,4-Dioxane	123-91-1	0.36	1.8	7.2	Not Detected
2,2,4-Trimethylpentane	540-84-1	0.18	1.4	2.3	Not Detected
2-Butanone (Methyl Ethyl Ketone)	78-93-3	1.0	3.7	5.9	Not Detected
2-Hexanone	591-78-6	0.70	5.1	8.2	Not Detected
2-Propanol	67-63-0	0.33	3.1	4.9	0.66 J

eurofins | Air Toxics

Client ID:	Lab Blank		
Lab ID:	2108676B-03A	**Date/Time Analyzed:**	9/9/21 02:33 PM
Date/Time Collected:	NA - Not Applicable	**Dilution Factor:**	1.00
Media:	NA - Not Applicable	**Instrument/Filename:**	msd3.i / 3090908c

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
3-Chloropropene	107-05-1	0.64	1.6	6.3	Not Detected
4-Ethyltoluene	622-96-8	0.62	1.5	2.4	Not Detected
4-Methyl-2-pentanone	108-10-1	0.31	1.2	2.0	Not Detected
Acetone	67-64-1	0.85	3.0	12	Not Detected
Acrolein	107-02-8	1.4	D	4.6	Not Detected
Acrylonitrile	107-13-1	0.41	D	4.3	Not Detected
alpha-Chlorotoluene	100-44-7	0.21	1.6	2.6	Not Detected
Benzene	71-43-2	0.12	0.96	1.6	Not Detected
Bromodichloromethane	75-27-4	0.64	1.7	3.4	Not Detected
Bromoform	75-25-2	0.44	3.1	5.2	Not Detected
Bromomethane	74-83-9	0.87	4.8	19	Not Detected
Carbon Disulfide	75-15-0	1.5	3.9	6.2	Not Detected
Carbon Tetrachloride	56-23-5	0.51	1.9	3.1	Not Detected
Chlorobenzene	108-90-7	0.20	1.2	2.3	Not Detected
Chloroethane	75-00-3	1.1	3.3	5.3	Not Detected
Chloroform	67-66-3	0.29	1.2	2.4	Not Detected
Chloromethane	74-87-3	1.1	2.6	10	Not Detected
cis-1,2-Dichloroethene	156-59-2	0.36	1.2	2.0	Not Detected
cis-1,3-Dichloropropene	10061-01-5	0.33	1.4	2.3	Not Detected
Cumene	98-82-8	0.31	1.5	2.4	Not Detected
Cyclohexane	110-82-7	0.37	1.0	1.7	Not Detected
Dibromochloromethane	124-48-1	0.59	2.6	4.2	Not Detected
Dibromomethane	74-95-3	0.69	D	14	Not Detected
Ethanol	64-17-5	1.0	2.4	9.4	Not Detected

eurofins | Air Toxics

Client ID:	Lab Blank		
Lab ID:	2108676B-03A	**Date/Time Analyzed:**	9/9/21 02:33 PM
Date/Time Collected:	NA - Not Applicable	**Dilution Factor:**	1.00
Media:	NA - Not Applicable	**Instrument/Filename:**	msd3.i / 3090908c

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethyl Acetate	141-78-6	2.1	D	7.2	Not Detected
Ethyl Benzene	100-41-4	0.36	1.3	2.2	Not Detected
Ethyl-tert-butyl ether	637-92-3	0.62	D	8.4	Not Detected
Freon 11	75-69-4	0.32	1.7	2.8	Not Detected
Freon 113	76-13-1	0.60	2.3	3.8	Not Detected
Freon 114	76-14-2	0.48	2.1	3.5	Not Detected
Freon 12	75-71-8	0.45	1.5	2.5	Not Detected
Freon 134a	811-97-2	1.1	D	8.3	Not Detected
Heptane	142-82-5	0.37	1.2	2.0	Not Detected
Hexachlorobutadiene	87-68-3	2.4	13	21	Not Detected
Hexachloroethane	67-72-1	NA	D	19	Not Detected
Hexane	110-54-3	0.33	1.0	1.8	Not Detected
Iodomethane	74-88-4	1.6	D	29	Not Detected
Isopropyl ether	108-20-3	0.56	D	8.4	Not Detected
m,p-Xylene	108-38-3	1.2	1.3	2.2	Not Detected
Methyl tert-butyl ether	1634-04-4	0.44	1.8	7.2	Not Detected
Methylene Chloride	75-09-2	0.99	4.3	17	Not Detected
Naphthalene	91-20-3	0.34	0.66	5.2	Not Detected
o-Xylene	95-47-6	0.58	1.3	2.2	Not Detected
Propylbenzene	103-65-1	0.40	1.5	2.4	Not Detected
Propylene	115-07-1	0.65	2.2	3.4	Not Detected
Styrene	100-42-5	0.25	1.3	2.1	Not Detected
tert-Amyl methyl ether	994-05-8	1.2	D	8.4	Not Detected
tert-Butyl alcohol	75-65-0	0.55	D	6.1	Not Detected

Client ID:	Lab Blank		
Lab ID:	2108676B-03A	**Date/Time Analyzed:**	9/9/21 02:33 PM
Date/Time Collected:	NA - Not Applicable	**Dilution Factor:**	1.00
Media:	NA - Not Applicable	**Instrument/Filename:**	msd3.i / 3090908c

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	127-18-4	0.60	2.0	3.4	Not Detected
Tetrahydrofuran	109-99-9	0.32	0.88	1.5	Not Detected
Toluene	108-88-3	0.46	1.1	1.9	Not Detected
TPH ref. to Gasoline (MW=100)	9999-9999-038	NA	D	200	Not Detected
trans-1,2-Dichloroethene	156-60-5	0.82	1.2	2.0	Not Detected
trans-1,3-Dichloropropene	10061-02-6	0.31	1.4	2.3	Not Detected
Trichloroethene	79-01-6	0.34	1.6	2.7	Not Detected
Vinyl Acetate	108-05-4	1.4	4.4	7.0	Not Detected
Vinyl Bromide	593-60-2	0.71	D	8.7	Not Detected
Vinyl Chloride	75-01-4	0.50	0.77	1.3	Not Detected

J = Estimated value.
D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	94
4-Bromofluorobenzene	460-00-4	70-130	97
Toluene-d8	2037-26-5	70-130	104

US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msd3.i/09SEP21.b/3090908c.d
Lab Smp Id: Lab Blank Client Smp ID: Lab Blank
Inj Date : 09-SEP-2021 14:33
Operator : LD Inst ID: msd3.i
Smp Info : 200mL 35157
Misc Info : Humid
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msd3.i/09SEP21.b/321q0812b.m
Meth Date : 09-Sep-2021 16:27 lk8g Quant Type: ISTD
Cal Date : 02-SEP-2021 10:33 Cal File: 3090203.d
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AEC25677.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE		(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 90 Bromochloromethane						CAS #: 74-97-5		
5.858	5.858 (1.000)	130	209496	25.0000			80.00- 120.00	100.00
5.858	5.858 (1.000)	128	163525				47.29- 107.29	78.06
5.858	5.858 (1.000)	49	336967				122.83- 182.83	160.85
* 108 1,4-Difluorobenzene						CAS #: 540-36-3		
6.750	6.750 (1.000)	114	769198	25.0000			80.00- 120.00	100.00
6.750	6.750 (1.000)	88	117481				0.00- 45.09	15.27
* 153 Chlorobenzene-d5						CAS #: 3114-55-4		
9.207	9.207 (1.000)	117	762992	25.0000			80.00- 120.00	100.00
9.207	9.207 (1.000)	82	406388				23.62- 83.62	53.26
$ 104 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
6.404	6.404 (1.093)	65	274652	23.5307	23.531		80.00- 120.00	100.00
6.404	6.404 (1.093)	67	137908				20.51- 80.51	50.21
$ 134 Toluene-d8						CAS #: 2037-26-5		
7.967	7.968 (1.180)	98	805089	25.9723	25.972		80.00- 120.00	100.00
7.967	7.968 (1.180)	70	87312				0.00- 42.00	10.85

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 134 Toluene-d8 (continued)							
7.967	7.968 (1.180)	100	546922			37.14- 97.14	67.93
$ 170 4-Bromofluorobenzene					CAS #: 460-00-4		
10.202	10.195 (1.108)	174	483041	24.2137	24.214	80.00- 120.00	100.00
10.195	10.195 (1.107)	95	594693			92.25- 152.25	123.11
10.202	10.195 (1.108)	176	445750			63.07- 123.07	92.28
52 2-Propanol					CAS #: 67-63-0		
3.955	3.941 (0.675)	45	3990	0.26715	0.2671	80.00- 120.00	100.00(a)
3.955	3.941 (0.675)	43	1838			0.00- 49.76	46.08

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd3.i
Lab File ID: 3090908c.d
Lab Smp Id: Lab Blank
Analysis Type: VOA
Quant Type: ISTD
Operator: LD
Method File: /chem/msd3.i/09SEP21.b/321q0812b.m
Misc Info: Humid

Calibration Date: 09-SEP-2021
Calibration Time: 11:39
Client Smp ID: Lab Blank
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	194770	116862	272678	209496	7.56
108 1,4-Difluorobenze	712592	427555	997629	769198	7.94
153 Chlorobenzene-d5	710524	426314	994734	762992	7.38

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.86	5.53	6.19	5.86	-0.00
108 1,4-Difluorobenze	6.75	6.42	7.08	6.75	-0.00
153 Chlorobenzene-d5	9.21	8.88	9.54	9.21	-0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 09-Sep-2021 16:28

US32TAR1

RECOVERY REPORT

Client Name: Client SDG: 09SEP21
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: Lab Blank Client Smp ID: Lab Blank
Level: LOW Operator: LD
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT20_new.spk Quant Type: ISTD
Sublist File: AEC25677.sub
Method File: /chem/msd3.i/09SEP21.b/321q0812b.m
Misc Info: Humid

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 104 1,2-Dichloroethan	25.000	23.531	94.12	70-130
$ 134 Toluene-d8	25.000	25.972	103.89	70-130
$ 170 4-Bromofluorobenz	25.000	24.214	96.85	70-130

Data File: /chem/msd3.i/09SEP21.b/3090908c.d

Date : 09-SEP-2021 14:33

Client ID: Lab Blank

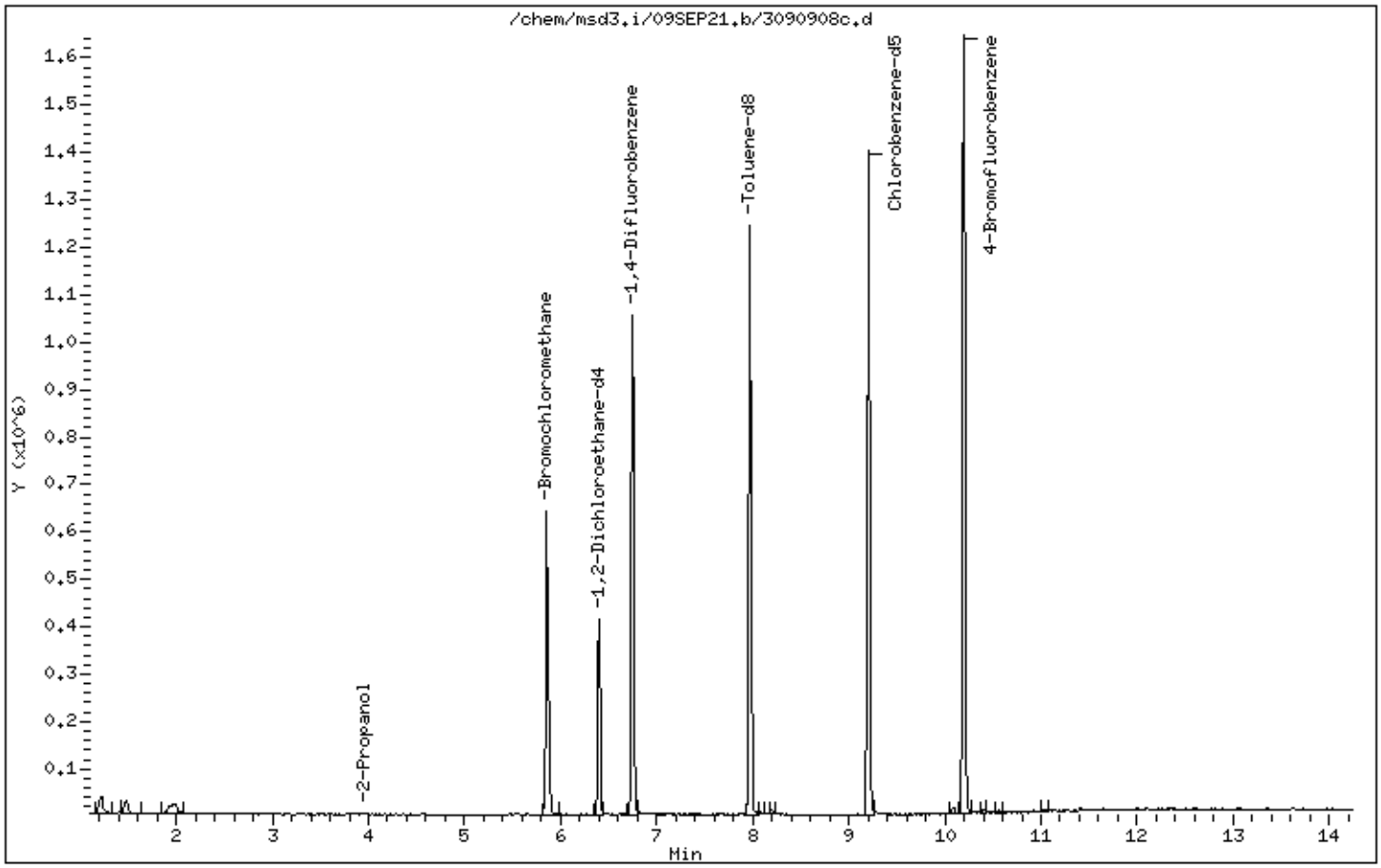
Instrument: msd3.i

Sample Info: 200mL 35157

Operator: LD

Column phase: RTX-624

Column diameter: 0.25



Data File: /chem/msd3.i/09SEP21.b/3090908c.d

Date : 09-SEP-2021 14:33

Client ID: Lab Blank

Instrument: msd3.i

Sample Info: 200mL 35157

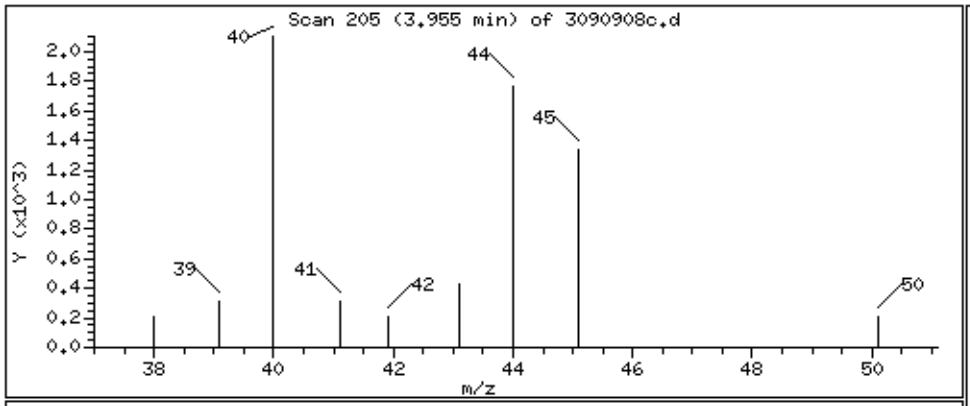
Operator: LD

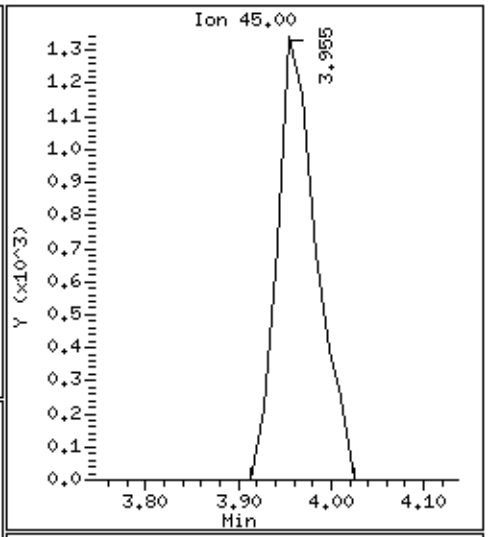
Column phase: RTX-624

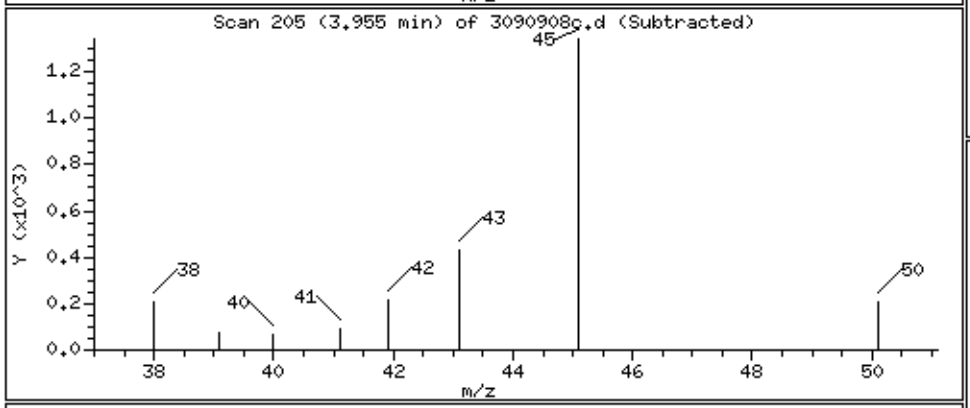
Column diameter: 0.25

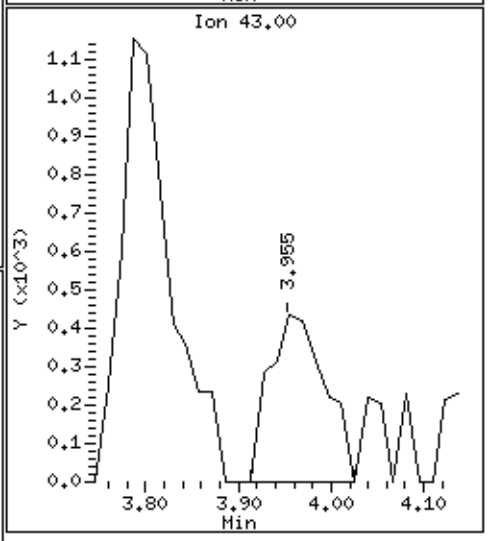
52 2-Propanol

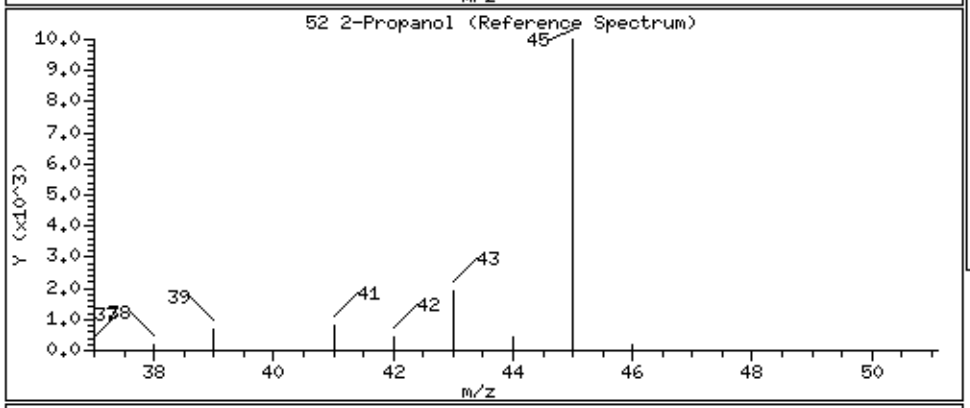
Concentration: 0.2671 PPBV

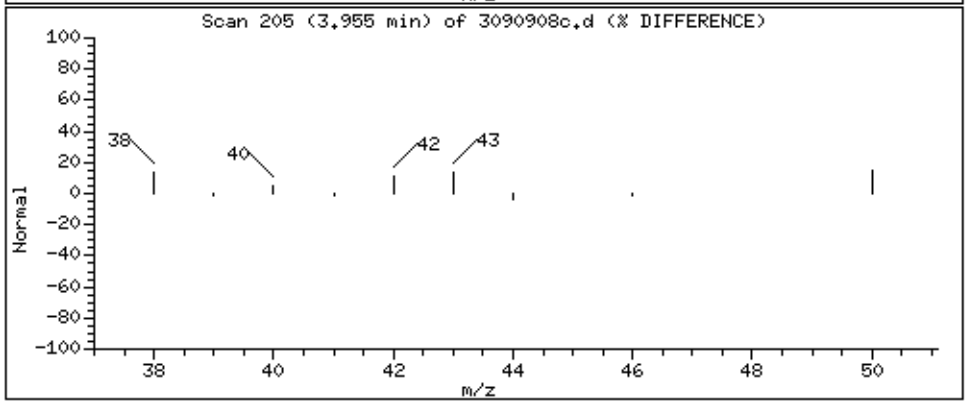












LEVEL-IV VALIDATABLE

MODIFIED EPA METHOD TO-15

SURROGATE RECOVERY FORM

Lab Name : Eurofins Air Toxics, LLC _____ SDG No. :2108676B

	CLIENT SAMPLE NO.	SURROGATE % RECOVERY						
		1,2-Dichloroethane-d4	#	Toluene-d8	#	4-Bromofluorobenzene	#	TOTAL OUT
1	SG-VW21A-06	89		108		95		
2	Lab Blank	94		104		97		
3	CCV	92		105		100		
4	LCS	89		106		100		
5	LCSD	91		105		99		

Surrogate Recovery Limits

1,2-Dichloroethane-d4	70 - 130
Toluene-d8	70 - 130
4-Bromofluorobenzene	70 - 130

* Designates Values Outside of QC limits

LEVEL-IV VALIDATABLE

MODIFIED EPA METHOD TO-15

INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name : Eurofins Air Toxics, LLC File ID: 3090903.d Date : 2021-09-09 11:39:00 SDG No. : 2108676B

		Bromochloromethane		RT		1,4-Difluorobenzene		RT		Chlorobenzene-d5		RT	
	24-HOUR CCV	194770		5.86		712592		6.75		710524		9.21	
	UPPER LIMIT	272678		6.19		997628		7.08		994733		9.54	
	LOWER LIMIT	116862		5.53		427555		6.42		426314		8.88	
	CLIENT SAMPLE NO.												
1	SG-VW21A-06	180377		5.86		646712		6.75		665975		9.21	
2	Lab Blank	209496		5.86		769198		6.75		762992		9.21	
3	CCV	194770		5.86		712592		6.75		710524		9.21	
4	LCS	217543		5.86		800957		6.74		794198		9.21	
5	LCSD	201014		5.86		745602		6.75		726122		9.21	

Area Upper Limit = +40% of intenral standard area

Area Lower Limit = -40% of intenral standard area

RT Upper Limit = +0.33 minutes of internal standard RT

RT Lower Limit = -0.33 minutes of internal standard RT

* Designates Values Outside of QC limits

SAMPLE RESULTS/SAMPLE RESULTS DUPLICATE

Lab File ID: 3090904.d & 3090905.d

Lab Sample ID: 05A & 05AA

CAS Number	Compound	Original Amount	Duplicate Amount	RPD	Result Less Than 5X RL
71-55-6	1,1,1-Trichloroethane	91	91	0	
79-34-5	1,1,2,2-Tetrachloroethane	100	101	1.00	
79-00-5	1,1,2-Trichloroethane	98	100	2.0	
75-34-3	1,1-Dichloroethane	93	94	1.1	
75-35-4	1,1-Dichloroethene	88	87	1.1	
120-82-1	1,2,4-Trichlorobenzene	99	105	5.9	
95-63-6	1,2,4-Trimethylbenzene	104	105	0.96	
106-93-4	1,2-Dibromoethane (EDB)	98	98	0	
95-50-1	1,2-Dichlorobenzene	100	101	1.00	
107-06-2	1,2-Dichloroethane	88	87	1.1	
78-87-5	1,2-Dichloropropane	107	106	0.94	
108-67-8	1,3,5-Trimethylbenzene	101	102	0.99	
106-99-0	1,3-Butadiene	66	78	17	
541-73-1	1,3-Dichlorobenzene	101	103	2.0	
106-46-7	1,4-Dichlorobenzene	101	102	0.99	
123-91-1	1,4-Dioxane	94	89	5.5	
540-84-1	2,2,4-Trimethylpentane	108	108	0	
78-93-3	2-Butanone (Methyl Ethyl Ketone)	98	96	2.1	
591-78-6	2-Hexanone	89	88	1.1	
67-63-0	2-Propanol	97	93	4.2	
107-05-1	3-Chloropropene	90	89	1.1	
622-96-8	4-Ethyltoluene	103	103	0	
108-10-1	4-Methyl-2-pentanone	100	98	2.0	
67-64-1	Acetone	94	93	1.1	
100-44-7	alpha-Chlorotoluene	101	102	0.99	
71-43-2	Benzene	99	98	1.0	
75-27-4	Bromodichloromethane	98	96	2.1	
75-25-2	Bromoform	100	100	0	
74-83-9	Bromomethane	85	86	1.2	
75-15-0	Carbon Disulfide	94	94	0	
56-23-5	Carbon Tetrachloride	97	98	1.0	
108-90-7	Chlorobenzene	101	101	0	
75-00-3	Chloroethane	94	92	2.2	
67-66-3	Chloroform	94	94	0	
74-87-3	Chloromethane	83	84	1.2	
156-59-2	cis-1,2-Dichloroethene	97	98	1.0	

10061-01-5	cis-1,3-Dichloropropene	104	102	1.9
98-82-8	Cumene	101	102	0.99
110-82-7	Cyclohexane	99	100	1.0
124-48-1	Dibromochloromethane	98	99	1.0
64-17-5	Ethanol	75	72	4.1
100-41-4	Ethyl Benzene	102	103	0.98
75-69-4	Freon 11	85	84	1.2
76-13-1	Freon 113	88	88	0
76-14-2	Freon 114	88	86	2.3
75-71-8	Freon 12	85	84	1.2
142-82-5	Heptane	92	84	9.1
87-68-3	Hexachlorobutadiene	106	114	7.3
110-54-3	Hexane	100	101	1.00
108-38-3	m,p-Xylene	104	104	0
1634-04-4	Methyl tert-butyl ether	91	91	0
75-09-2	Methylene Chloride	95	95	0
91-20-3	Naphthalene	88	92	4.4
95-47-6	o-Xylene	102	103	0.98
103-65-1	Propylbenzene	101	101	0
115-07-1	Propylene	92	92	0
100-42-5	Styrene	102	103	0.98
127-18-4	Tetrachloroethene	98	99	1.0
109-99-9	Tetrahydrofuran	100	101	1.00
108-88-3	Toluene	104	103	0.97
156-60-5	trans-1,2-Dichloroethene	93	94	1.1
10061-02-6	trans-1,3-Dichloropropene	96	96	0
79-01-6	Trichloroethene	100	100	0
108-05-4	Vinyl Acetate	94	99	5.2
75-01-4	Vinyl Chloride	71	78	9.4

US32TAR1

INITIAL CALIBRATION DATA

Start Cal Date : 12-AUG-2021 16:21
End Cal Date : 02-SEP-2021 10:33
Quant Method : ISTD
Origin : Disabled
Target Version : 3.60
Integrator : HP RTE
Method file : /chem/msd3.i/02SEP21.b/321q0812b.m
Cal Date : 10-Sep-2021 09:03 ugdc
Curve Type : Average

Calibration File Names:
Level 1: /chem/msd3.i/02SEP21.b/3090203.d
Level 2: /chem/msd3.i/12AUG21.b/3081202x.d
Level 3: /chem/msd3.i/12AUG21.b/3081212.d
Level 5: /chem/msd3.i/12AUG21.b/3081215.d
Level 6: /chem/msd3.i/12AUG21.b/3081216.d
Level 7: /chem/msd3.i/12AUG21.b/3081217.d
Level 8: /chem/msd3.i/12AUG21.b/3081218.d
Level 9: /chem/msd3.i/12AUG21.b/3081219.d
Level 10: /chem/msd3.i/12AUG21.b/3081220.d
Level 11: /chem/msd3.i/12AUG21.b/3081221.d

Compound	0.20000 Level 1 / 20.000 Level 8	0.30000 Level 2 / 50.000 Level 9	0.40000 Level 3 / 100.000 Level 10	0.80000 Level 5 / 200.000 Level 11	2.000 Level 6	5.000 Level 7	___ RRF	% RSD
1 Dimethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
2 1,1-Dichloro-1-Fluoroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
3 Freon 143a	+++++	+++++	+++++	+++++	0.55996	0.52138	0.51475	7.574
	0.53779	0.52335	0.49966	0.44634				
4 Freon 134a	+++++	+++++	+++++	0.83288	0.73560	0.73651	0.72428	7.787
	0.73450	0.68638	0.67493	0.66915				
5 Propylene	+++++	+++++	+++++	+++++	0.74116	0.74452	0.70862	4.098
	0.71379	0.68783	0.68511	0.67933				

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Compound	0.20000 Level 1	0.30000 Level 2	0.40000 Level 3	0.80000 Level 5	2.000 Level 6	5.000 Level 7	___ RRF	% RSD
	20.000 Level 8	50.000 Level 9	100.000 Level 10	200.000 Level 11				
6 Propane	+++++	+++++	+++++	+++++	0.25777	0.26733		
	0.27497	0.25786	0.25635	0.24874			0.26050	3.543
7 1,1-Difluoroethane	+++++	+++++	+++++	+++++	0.49557	0.47331		
	0.44603	0.41889	0.41022	0.40653			0.44176	8.267
8 Freon 12	+++++	+++++	2.12323	2.08331	2.04532	2.04801		
	1.96165	1.88724	1.87949	1.83772			1.98325	5.366
9 Chlorodifluoromethane	+++++	+++++	+++++	0.33773	0.30757	0.25599		
	0.22230	0.20618	0.19882	0.19365			0.24603	23.123
10 Freon 114	+++++	+++++	1.75805	1.54242	1.55492	1.53233		
	1.47772	1.42152	1.41064	1.36276			1.50754	8.142
11 Freon 14	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
12 Isobutane	+++++	+++++	+++++	1.76300	1.55596	1.66106		
	1.61110	1.55884	1.56264	1.51834			1.60442	5.214
13 Freon 142b	+++++	+++++	+++++	+++++	1.70190	1.69698		
	1.67191	1.62847	1.61743	1.56131			1.64634	3.292
14 Acetaldehyde	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++

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Compound	0.20000 Level 1	0.30000 Level 2	0.40000 Level 3	0.80000 Level 5	2.000 Level 6	5.000 Level 7	___ RRF	% RSD	
	20.000 Level 8	50.000 Level 9	100.000 Level 10	200.000 Level 11					
15 Chloromethane	+++++	+++++	+++++	+++++	0.99147	0.92927			
	0.84836	0.79272	0.80573	0.75594			0.85392	10.513	
16 Hexafluoropropene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++	+++++			+++++	+++++	
17 Freon 13	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++	+++++			+++++	+++++	
18 Butane	+++++	+++++	+++++	+++++	0.27677	0.22615			
	0.19399	0.17384	0.17310	0.16411			0.20133	21.421	
19 Vinyl Chloride	+++++	+++++	1.31765	1.09005	0.98443	0.87521			
	0.83790	0.79844	0.78377	0.76650			0.93174	20.514	
20 1,3-Butadiene	+++++	+++++	1.52810	1.25146	0.83587	0.75149			
	0.72114	0.70479	0.68987	0.67212			0.89435	35.613	<-
21 Vinyl Fluoride	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++	+++++			+++++	+++++	
22 Ethylene Oxide	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++	+++++			+++++	+++++	
23 Methanol	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++	+++++			+++++	+++++	

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Compound	0.20000 Level 1	0.30000 Level 2	0.40000 Level 3	0.80000 Level 5	2.000 Level 6	5.000 Level 7	___ RRF	% RSD
	20.000 Level 8	50.000 Level 9	100.000 Level 10	200.000 Level 11				
24 Bromomethane	+++++	+++++	+++++	+++++	0.82713	0.88085		
	0.62591	0.61623	0.62597	0.59678			0.69548	17.888
25 Isobutylene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
26 2-Butene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
27 trans-2-butene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
28 1-Butene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
29 cis-2-Butene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
30 Chloroethane	+++++	+++++	+++++	+++++	0.48287	0.42651		
	0.41976	0.39058	0.38368	0.38068			0.41401	9.361
31 Isopentane	+++++	+++++	+++++	+++++	1.12799	1.12239		
	1.11853	1.04772	1.03459	1.02226			1.07891	4.544
32 Vinyl Bromide	+++++	+++++	+++++	0.85782	0.80254	0.75788		
	0.75752	0.71373	0.70690	0.69200			0.75548	7.799

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Curve Type : Average

Compound	0.20000 Level 1	0.30000 Level 2	0.40000 Level 3	0.80000 Level 5	2.000 Level 6	5.000 Level 7	___ RRF	% RSD
	20.000 Level 8	50.000 Level 9	100.000 Level 10	200.000 Level 11				
33 Freon 11	+++++	+++++	2.55704	2.28707	2.23293	2.21722		
	2.20578	2.05444	2.06717	2.00963			2.20391	7.886
34 Dichlorofluoromethane	+++++	+++++	+++++	1.85713	1.71002	1.74060		
	1.68449	1.61615	1.58526	1.55918			1.67898	6.133
35 Pentane	+++++	+++++	+++++	2.25830	1.81541	1.74399		
	1.72153	1.65163	1.64958	1.62102			1.78021	12.424
36 1-Pentene	+++++	+++++	+++++	+++++	0.95234	0.94160		
	0.96439	0.96847	0.95303	0.94387			0.95395	1.126
37 3-Methyl-1-butene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
38 Ethyl Ether	+++++	+++++	+++++	0.44293	0.39475	0.36229		
	0.35668	0.34079	0.34330	0.34071			0.36878	10.255
39 Ethanol	+++++	+++++	+++++	+++++	0.23833	0.19056		
	0.17012	0.14452	0.14994	0.14789			0.17356	20.862
40 Freon 123a	+++++	+++++	+++++	+++++	1.17232	1.19994		
	1.20528	1.16585	1.14943	1.11910			1.16865	2.751
41 Freon 123	+++++	+++++	+++++	+++++	1.63582	1.69569		
	1.70794	1.65086	1.61616	1.59592			1.65040	2.671

US32TAR1

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Curve Type : Average

Compound	0.20000 Level 1	0.30000 Level 2	0.40000 Level 3	0.80000 Level 5	2.000 Level 6	5.000 Level 7	___ RRF	% RSD
	20.000 Level 8	50.000 Level 9	100.000 Level 10	200.000 Level 11				
42 Acrolein	+++++	+++++	+++++	+++++	0.29888	0.28587		
	0.27381	0.26866	0.26633	0.25876			0.27539	5.308
43 Freon 113	+++++	+++++	1.77755	1.50347	1.46862	1.44088		
	1.46605	1.35561	1.33576	1.32313			1.45888	9.976
44 1,1-Dichloroethene	+++++	+++++	1.07301	0.88511	0.81992	0.78672		
	0.76946	0.74598	0.73131	0.73437			0.81824	14.054
45 2-Chloropropane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
46 2,3-Dimethylbutane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
47 Acetone	+++++	+++++	+++++	+++++	0.52973	0.47595		
	0.46870	0.44138	0.43484	0.42051			0.46185	8.503
48 Carbon Disulfide	+++++	+++++	+++++	+++++	2.27886	2.17226		
	2.10575	2.00535	1.99697	1.96624			2.08757	5.819
49 Iodomethane	+++++	+++++	+++++	+++++	1.68615	1.29270		
	2.20815	1.98640	1.84363	1.76334			1.79673	17.152
50 Isoprene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++

US32TAR1

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Curve Type : Average

Compound	0.20000 Level 1	0.30000 Level 2	0.40000 Level 3	0.80000 Level 5	2.000 Level 6	5.000 Level 7	___ RRF	% RSD
	20.000 Level 8	50.000 Level 9	100.000 Level 10	200.000 Level 11				
51 2-Methyl-2-butene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
52 2-Propanol	+++++	+++++	+++++	+++++	2.00456	1.81155		
	1.78469	1.72361	1.71385	1.65576			1.78234	6.844
53 trans-2-Pentene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
54 3-Chloropropene	+++++	+++++	+++++	0.43673	0.37418	0.36229		
	0.35299	0.32826	0.33274	0.33411			0.36018	10.489
55 Cyclopentene	+++++	+++++	+++++	+++++	1.63877	1.70548		
	1.70766	1.72358	1.68703	1.66064			1.68719	1.898
56 Methyl Acetate	+++++	+++++	+++++	+++++	1.80141	1.80765		
	1.87078	1.84767	1.80179	1.73774			1.81117	2.527
57 Acetonitrile	+++++	+++++	+++++	+++++	0.85276	0.82190		
	0.79294	0.74648	0.76918	0.76021			0.79058	5.116
58 cis-2-Pentene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
59 Methylene Chloride	+++++	+++++	+++++	+++++	1.24267	1.23799		
	1.18420	1.11938	1.10751	1.07746			1.16153	6.052

US32TAR1

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Curve Type : Average

Compound	0.20000 Level 1	0.30000 Level 2	0.40000 Level 3	0.80000 Level 5	2.000 Level 6	5.000 Level 7	___ RRF	% RSD
	20.000 Level 8	50.000 Level 9	100.000 Level 10	200.000 Level 11				
60 Cyclopentane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
61 1,2-Dichloro-1-fluoroethane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
62 tert-Butyl alcohol	+++++	+++++	+++++	+++++	2.11941	2.16938		
	2.07560	1.99573	1.99417	1.99303			2.05789	3.679
63 Methyl tert-butyl ether	+++++	+++++	+++++	2.52491	2.23244	2.24619		
	2.26879	2.16012	2.13753	2.13127			2.24304	6.057
64 trans-1,2-Dichloroethene	+++++	+++++	0.56322	0.53912	0.53583	0.53085		
	0.51790	0.49565	0.48725	0.48687			0.51959	5.330
65 2,2-Dimethylbutane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
66 Acrylonitrile	+++++	+++++	0.89371	0.88128	0.72614	0.63776		
	0.61277	0.58792	0.57623	0.57965			0.68693	19.340
67 Hexane	+++++	+++++	1.65877	1.60232	1.58132	1.50457		
	1.47948	1.42288	1.42975	1.43035			1.51368	5.960
68 1-Hexene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++

US32TAR1

INITIAL CALIBRATION DATA

Start Cal Date : 12-AUG-2021 16:21
End Cal Date : 02-SEP-2021 10:33
Quant Method : ISTD
Origin : Disabled
Target Version : 3.60
Integrator : HP RTE
Method file : /chem/msd3.i/02SEP21.b/321q0812b.m
Cal Date : 10-Sep-2021 09:03 ugdc
Curve Type : Average

Compound	0.20000 Level 1	0.30000 Level 2	0.40000 Level 3	0.80000 Level 5	2.000 Level 6	5.000 Level 7	___ RRF	% RSD
	20.000 Level 8	50.000 Level 9	100.000 Level 10	200.000 Level 11				
69 Bromoethane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
70 4-Methyl-1-pentene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
71 1,1-Dichloroethane	+++++	1.79920	1.74918	1.65426	1.64457	1.60891		
	1.55659	1.48322	1.47443	1.46295			1.60370	7.538
72 Isopropyl ether	+++++	+++++	+++++	+++++	3.35157	3.44052		
	3.43425	3.24841	3.22549	3.17411			3.31239	3.404
73 Vinyl Acetate	+++++	+++++	+++++	+++++	0.22969	0.19576		
	0.18838	0.19012	0.19547	0.19266			0.19868	7.784
74 Chloroprene	+++++	+++++	+++++	+++++	1.53051	1.48469		
	1.52563	1.53801	1.52937	1.52496			1.52219	1.245
75 1-Propanol	+++++	+++++	+++++	+++++	0.22557	0.20306		
	0.19941	0.20203	0.19843	0.19359			0.20368	5.511
76 2-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
77 3-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++

US32TAR1

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Method file : /chem/msd3.i/02SEP21.b/321q0812b.m
Cal Date : 10-Sep-2021 09:03 ugdc
Curve Type : Average

Compound	0.20000 Level 1	0.30000 Level 2	0.40000 Level 3	0.80000 Level 5	2.000 Level 6	5.000 Level 7	___ RRF	% RSD
	20.000 Level 8	50.000 Level 9	100.000 Level 10	200.000 Level 11				
78 1-Chloropropane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
79 Ethyl-tert-butyl ether	+++++	+++++	+++++	+++++	3.03751	3.07073		
	3.11925	2.98762	2.94461	2.93813			3.01631	2.395
80 2-Methyl-1-pentene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
81 2,4-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
82 2,3-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
83 tert-Butyl chloride	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
84 2,2-Dichloropropane	+++++	+++++	+++++	1.59303	1.55206	1.56311		
	1.53798	1.46702	1.45409	1.44147			1.51554	3.970
85 cis-1,2-Dichloroethene	+++++	+++++	0.62274	0.58265	0.55415	0.54561		
	0.53965	0.52341	0.52478	0.51477			0.55097	6.536
86 2-Butanone	+++++	+++++	+++++	+++++	0.42291	0.41608		
	0.40273	0.39271	0.39488	0.39040			0.40329	3.323

US32TAR1

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Method file : /chem/msd3.i/02SEP21.b/321q0812b.m
Cal Date : 10-Sep-2021 09:03 ugdc
Curve Type : Average

Compound	0.20000 Level 1	0.30000 Level 2	0.40000 Level 3	0.80000 Level 5	2.000 Level 6	5.000 Level 7	___ RRF	% RSD
	20.000 Level 8	50.000 Level 9	100.000 Level 10	200.000 Level 11				
87 Ethyl Acetate	+++++	+++++	+++++	+++++	0.45080	0.39319		
	0.36330	0.36042	0.35110	0.34816			0.37783	10.366
88 Methyl Acrylate	+++++	+++++	+++++	+++++	1.78096	1.74523		
	1.81842	1.77796	1.76505	1.74354			1.77186	1.565
89 Tetrahydrofuran	+++++	+++++	1.59673	1.31225	1.27941	1.15402		
	1.12905	1.12322	1.11486	1.10552			1.22688	13.768
91 trans-2-Hexene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
92 Chloroform	+++++	1.94180	1.88518	1.83529	1.79165	1.77895		
	1.71376	1.67678	1.65346	1.63729			1.76824	6.019
93 cis-2-Hexene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
94 Cyclohexane	+++++	+++++	1.24573	1.17754	1.05005	1.06258		
	1.07094	1.02318	1.01595	1.01351			1.08243	7.805
95 Methylcyclopentane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
96 1,1,1-Trichloroethane	+++++	2.09785	2.03105	1.98269	1.98454	1.92143		
	1.90226	1.79128	1.79715	1.76666			1.91943	6.041

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Method file : /chem/msd3.i/02SEP21.b/321q0812b.m
Cal Date : 10-Sep-2021 09:03 ugdc
Curve Type : Average

Compound	0.20000 Level 1	0.30000 Level 2	0.40000 Level 3	0.80000 Level 5	2.000 Level 6	5.000 Level 7	___ RRF	% RSD
	20.000 Level 8	50.000 Level 9	100.000 Level 10	200.000 Level 11				
97 Carbon Tetrachloride	+++++	+++++	1.84238	1.76801	1.91447	1.86931		
	1.97891	1.88308	1.88925	1.87692			1.87779	3.189
98 sec-Butyl chloride	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
99 1,1-Dichloropropene	+++++	+++++	+++++	0.14373	0.13122	0.12672		
	0.12684	0.12585	0.12404	0.12139			0.12854	5.705
100 2,3,4-Trimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
101 2,2,4-Trimethylpentane	+++++	+++++	5.40557	5.13923	4.74505	4.74522		
	4.85045	4.65231	4.61351	4.54564			4.83712	6.056
102 Benzene	+++++	+++++	0.74294	0.74467	0.63245	0.64451		
	0.62810	0.60926	0.59826	0.58721			0.64843	9.521
103 Isobutanol	+++++	+++++	+++++	+++++	0.27644	0.27433		
	0.27161	0.26853	0.26135	0.25810			0.26840	2.717
105 tert-Amyl methyl ether	+++++	+++++	+++++	+++++	0.17052	0.17087		
	0.17537	0.16722	0.16444	0.16242			0.16848	2.809
106 1,2-Dichloroethane	+++++	+++++	0.43458	0.42187	0.39553	0.39194		
	0.37795	0.36567	0.35599	0.34827			0.38648	7.929

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Method file : /chem/msd3.i/02SEP21.b/321q0812b.m
Cal Date : 10-Sep-2021 09:03 ugdc
Curve Type : Average

Compound	0.20000 Level 1 / 20.000 Level 8	0.30000 Level 2 / 50.000 Level 9	0.40000 Level 3 / 100.000 Level 10	0.80000 Level 5 / 200.000 Level 11	2.000 Level 6	5.000 Level 7	___ RRF	% RSD
107 Heptane	+++++	+++++	0.26936	0.26612	0.24111	0.25727		
	0.28306	0.24038	0.26139	0.20021			0.25236	10.065
109 Butanal	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
110 n-Butanol	+++++	+++++	+++++	+++++	0.23651	0.23789		
	0.21594	0.21787	0.21711	0.21690			0.22370	4.686
111 Trichloroethene	+++++	+++++	0.35934	0.34103	0.31682	0.31639		
	0.31100	0.29878	0.29771	0.29467			0.31697	7.164
112 Isobutyl chloride	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
113 Ethyl acrylate	+++++	+++++	+++++	+++++	0.04041	0.04166		
	0.04194	0.04223	0.04177	0.04059			0.04143	1.804
114 1,2-Dichloropropane	+++++	+++++	0.36039	0.29931	0.28737	0.28576		
	0.28427	0.27154	0.26876	0.26457			0.29025	10.529
115 2-Pentanone	+++++	+++++	+++++	+++++	0.81907	0.80125		
	0.86220	0.84250	0.82814	0.79843			0.82527	2.970
116 Methyl Methacrylate	+++++	+++++	+++++	0.28397	0.27131	0.27093		
	0.27275	0.25908	0.25858	0.25478			0.26734	3.855

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Curve Type : Average

Compound	0.20000 Level 1	0.30000 Level 2	0.40000 Level 3	0.80000 Level 5	2.000 Level 6	5.000 Level 7	___ RRF	% RSD
	20.000 Level 8	50.000 Level 9	100.000 Level 10	200.000 Level 11				
117 1,4-Dioxane	+++++	+++++	+++++	0.19842	0.18631	0.18391		
	0.18483	0.17377	0.17452	0.17031			0.18172	5.315
118 Dibromomethane	+++++	+++++	0.35217	0.33550	0.32681	0.30891		
	0.31031	0.30419	0.29802	0.29005			0.31574	6.583
119 Methacrylonitrile	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
120 2-Chloropentane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
121 2-Butanol	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
122 Bromodichloromethane	+++++	0.56068	0.59413	0.55106	0.51716	0.52846		
	0.51955	0.50697	0.50013	0.49281			0.53011	6.177
123 1-Bromopropane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
124 Chloroacetonitrile	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
125 n-Butylchloride	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++

US32TAR1

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Compound	0.20000 Level 1	0.30000 Level 2	0.40000 Level 3	0.80000 Level 5	2.000 Level 6	5.000 Level 7	___ RRF	% RSD
	20.000 Level 8	50.000 Level 9	100.000 Level 10	200.000 Level 11				
126 cis-1,3-Dichloropropene	+++++	+++++	0.47813	0.39842	0.40516	0.38950		
	0.39851	0.39116	0.38670	0.38175			0.40367	7.680
127 Methylcyclohexane	+++++	+++++	0.45724	0.41992	0.37798	0.38719		
	0.40943	0.38760	0.38387	0.37742			0.40008	6.900
128 Thiophene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
129 2-Methylhexane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
130 3-Methylhexane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
131 4-Methyl-2-pentanone	+++++	+++++	0.33290	0.30171	0.28601	0.27351		
	0.27528	0.26509	0.25832	0.25808			0.28136	9.039
132 Cyclohexene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
135 1-Methoxy-2-propanol	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
136 Octane	+++++	+++++	0.35197	0.31874	0.27580	0.26937		
	0.29508	0.27708	0.26670	0.26364			0.28980	10.695

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Compound	0.20000 Level 1	0.30000 Level 2	0.40000 Level 3	0.80000 Level 5	2.000 Level 6	5.000 Level 7	___ RRF	% RSD
	20.000 Level 8	50.000 Level 9	100.000 Level 10	200.000 Level 11				
137 Toluene	+++++	+++++	0.97731	0.89238	0.85495	0.85458		
	0.87571	0.83077	0.81395	0.79331			0.86162	6.582
138 1-Heptene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
139 trans-1,3-Dichloropropene	+++++	+++++	0.53086	0.42304	0.40632	0.40354		
	0.42165	0.40449	0.40185	0.39202			0.42297	10.589
140 2,3-Dichloro-1-propene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
141 1,1,2-Trichloroethane	+++++	+++++	0.35448	0.33655	0.31389	0.30708		
	0.32023	0.30335	0.29881	0.29090			0.31566	6.656
142 Tetrachloroethene	+++++	+++++	0.52856	0.46360	0.46763	0.45553		
	0.46571	0.44138	0.43659	0.42387			0.46036	6.881
143 2-Hexanone	+++++	+++++	+++++	+++++	0.46863	0.45484		
	0.45600	0.43891	0.42982	0.42094			0.44486	4.049
144 1,3-Dichloropropane	+++++	+++++	0.56124	0.43376	0.41896	0.40574		
	0.41706	0.39543	0.38939	0.38396			0.42569	13.445
145 Butyl Acetate	+++++	+++++	+++++	+++++	0.34225	0.33976		
	0.35677	0.34603	0.34048	0.33555			0.34347	2.141

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	20.000 Level 8	50.000 Level 9	100.000 Level 10	200.000 Level 11				
146 Dibromochloromethane	+++++	+++++	0.66551	0.63824	0.61876	0.61835		
	0.65097	0.62581	0.61884	0.60199			0.62981	3.263
147 Bromodichloroethene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
148 1,2-Dibromoethane (EDB)	0.55496	0.50754	0.60273	0.52474	0.50196	0.49097		
	0.51383	0.49002	0.48532	0.47022			0.51423	7.586
149 2-Methylheptane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
150 3-Methylheptane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
151 1-Bromo-2-Chloroethane	+++++	+++++	+++++	+++++	0.54317	0.52852		
	0.53267	0.51382	0.50488	0.49624			0.51989	3.442
152 Diethyl Ketone	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
154 Chlorobenzene	+++++	0.85513	0.86146	0.80506	0.77267	0.76385		
	0.80047	0.75164	0.73474	0.71277			0.78420	6.511
155 Ethyl Benzene	+++++	+++++	0.42768	0.41282	0.37266	0.37978		
	0.40263	0.37966	0.37080	0.36088			0.38836	6.005

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	20.000 Level 8	50.000 Level 9	100.000 Level 10	200.000 Level 11				
156 Nonane	+++++	+++++	+++++	0.86427	0.78354	0.77153		
	0.84135	0.76964	0.74320	0.70447			0.78257	7.013
157 1,1,1,2-Tetrachloroethane	+++++	+++++	0.46011	0.43318	0.40001	0.40842		
	0.46797	0.44424	0.43693	0.42953			0.43505	5.335
158 m,p-Xylene	+++++	+++++	0.52737	0.48667	0.46856	0.46502		
	0.49447	0.46916	0.45790	0.44668			0.47698	5.313
159 2-Nitropropane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
160 bis(chloromethyl) Ether	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
161 1-Octene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
162 Epichlorohydrin	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
163 2-Chloroethyl Vinyl Ether	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
164 o-Xylene	+++++	+++++	0.49873	0.44663	0.45127	0.43746		
	0.47190	0.44419	0.43834	0.42970			0.45228	4.989

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	20.000 Level 8	50.000 Level 9	100.000 Level 10	200.000 Level 11				
165 Styrene	+++++	+++++	0.91993	0.79401	0.74397	0.73266		
	0.80603	0.76733	0.75809	0.74348			0.78319	7.765
166 2-Heptanone	+++++	+++++	+++++	+++++	1.82191	1.82193		
	1.91157	1.88410	1.87817	1.85513			1.86214	1.931
167 Bromoform	+++++	+++++	0.67325	0.57824	0.57907	0.56759		
	0.61926	0.59660	0.58970	0.57567			0.59742	5.783
168 Cumene	+++++	+++++	1.61327	1.45400	1.41191	1.38473		
	1.50555	1.42407	1.37646	1.32249			1.43656	6.246
169 Cyclohexanone	+++++	+++++	+++++	0.86515	0.72065	0.67157		
	0.61389	0.58083	0.56888	0.54716			0.65259	17.126
171 Vinyl Cyclohexene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
172 D-Limonene	+++++	+++++	+++++	+++++	0.32474	0.34170		
	0.50603	0.49685	0.48336	0.47566			0.43806	18.733
173 Ethyl Methacrylate	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
174 1-Chloro-2-Bromopropane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++

US32TAR1

INITIAL CALIBRATION DATA

Start Cal Date : 12-AUG-2021 16:21
End Cal Date : 02-SEP-2021 10:33
Quant Method : ISTD
Origin : Disabled
Target Version : 3.60
Integrator : HP RTE
Method file : /chem/msd3.i/02SEP21.b/321q0812b.m
Cal Date : 10-Sep-2021 09:03 ugdc
Curve Type : Average

Compound	0.20000 Level 1	0.30000 Level 2	0.40000 Level 3	0.80000 Level 5	2.000 Level 6	5.000 Level 7	___ RRF	% RSD
	20.000 Level 8	50.000 Level 9	100.000 Level 10	200.000 Level 11				
175 1,1,2,2-Tetrachloroethane	+++++	+++++	0.78343	0.74117	0.71222	0.68108		
	0.71745	0.67471	0.65483	0.63756			0.70031	6.836
176 1-Nitropropane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
177 Bromobenzene	+++++	+++++	+++++	0.47729	0.46105	0.44891		
	0.48493	0.45361	0.44033	0.43116			0.45675	4.221
178 Propylbenzene	+++++	+++++	0.45550	0.42716	0.42019	0.39365		
	0.42756	0.40290	0.39154	0.38053			0.41238	5.982
179 1,2,3-Trichloropropane	+++++	+++++	0.26283	0.23472	0.22968	0.21141		
	0.23155	0.21610	0.21104	0.20452			0.22523	8.336
180 Bromodichloroethane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
181 trans-1,4-Dichloro-2-butene	+++++	+++++	+++++	0.21310	0.18796	0.17779		
	0.18366	0.16875	0.16572	0.15855			0.17936	10.089
182 Decane	+++++	+++++	+++++	1.32928	0.96760	0.87819		
	0.94234	0.85790	0.82746	0.76292			0.93796	19.796
183 4-Ethyltoluene	+++++	+++++	0.49649	0.47667	0.43554	0.43266		
	0.46147	0.43231	0.41862	0.40810			0.44523	6.784

US32TAR1

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Compound	0.20000 Level 1	0.30000 Level 2	0.40000 Level 3	0.80000 Level 5	2.000 Level 6	5.000 Level 7	___ RRF	% RSD
	20.000 Level 8	50.000 Level 9	100.000 Level 10	200.000 Level 11				
184 2-Chlorotoluene	+++++	+++++	0.40655	0.38409	0.36693	0.36809		
	0.38546	0.35853	0.34972	0.34215			0.37019	5.689
185 1,3,5-Trimethylbenzene	+++++	+++++	0.66968	0.61232	0.62074	0.61130		
	0.65507	0.61073	0.59759	0.59123			0.62108	4.405
186 4-Chlorotoluene	+++++	+++++	+++++	+++++	0.36788	0.36540		
	0.40971	0.39655	0.38118	0.37379			0.38242	4.561
187 Diisobutyl Ketone	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
188 alpha Methyl Styrene	+++++	+++++	0.65212	0.58837	0.59400	0.59576		
	0.65595	0.62824	0.62389	0.61188			0.61878	4.199
189 tert-Butylbenzene	+++++	+++++	+++++	1.24082	1.15212	1.13935		
	1.24702	1.15851	1.12289	1.08203			1.16325	5.203
190 1,2,4-Trimethylbenzene	+++++	+++++	1.33177	1.22227	1.16259	1.17673		
	1.26948	1.19373	1.16270	1.12386			1.20539	5.576
191 Pentachloroethane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
192 sec-Butylbenzene	+++++	+++++	0.43200	0.42650	0.37516	0.36939		
	0.39444	0.36839	0.35798	0.34967			0.38419	7.998

US32TAR1

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Curve Type : Average

Compound	0.20000 Level 1	0.30000 Level 2	0.40000 Level 3	0.80000 Level 5	2.000 Level 6	5.000 Level 7	___ RRF	% RSD
	20.000 Level 8	50.000 Level 9	100.000 Level 10	200.000 Level 11				
193 bis(2-Chloroethyl) Ether	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
194 p-Cymene	+++++	+++++	1.78846	1.64079	1.54447	1.53075		
	1.64754	1.54891	1.50974	1.44678			1.58218	6.715
195 1,3-Dichlorobenzene	+++++	+++++	0.92060	0.88870	0.87465	0.83479		
	0.89732	0.83469	0.82051	0.80529			0.85957	4.803
196 1,4-Dichlorobenzene	+++++	+++++	0.98666	0.87852	0.88004	0.85348		
	0.90363	0.85238	0.83492	0.81506			0.87559	6.028
197 1,2,3-Trimethylbenzene	+++++	+++++	+++++	+++++	0.47211	0.47436		
	0.54204	0.52785	0.51307	0.50314			0.50543	5.584
198 1-Nonene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
199 alpha-Chlorotoluene	+++++	+++++	1.32240	1.18538	1.16323	1.15108		
	1.22648	1.17885	1.16819	1.14245			1.19226	4.904
200 1-Chlorohexane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
201 Undecane	+++++	+++++	+++++	1.23380	1.08812	1.01792		
	1.09728	1.01456	0.98990	0.93524			1.05383	9.203

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	20.000 Level 8	50.000 Level 9	100.000 Level 10	200.000 Level 11				
202 Butylbenzene	+++++	+++++	0.46882	0.45667	0.41416	0.41543		
	0.43827	0.40511	0.39862	0.38922			0.42329	6.716
203 Butyl Ether	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
204 1,2-Dichlorobenzene	+++++	+++++	0.90498	0.88203	0.82274	0.81385		
	0.86046	0.80660	0.79194	0.77843			0.83263	5.404
205 Hexachloroethane	+++++	+++++	+++++	+++++	0.26403	0.23760		
	0.36036	0.32306	0.31753	0.31308			0.30261	14.630
206 1,2-Dibromo-3-chloropropane	+++++	+++++	+++++	+++++	0.53065	0.51892		
	0.52907	0.50785	0.49816	0.48673			0.51190	3.422
207 Dodecane	+++++	+++++	1.05822	0.98857	0.90880	0.90878		
	0.96525	0.92887	0.90473	0.86418			0.94093	6.481
208 1,3,5-Trichlorobenzene	+++++	+++++	+++++	+++++	0.75095	0.73963		
	0.82333	0.78229	0.76565	0.74675			0.76810	4.041
209 1-Decene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
210 alpha-Pinene	+++++	+++++	+++++	+++++	0.73829	0.75416		
	0.88384	0.87331	0.85755	0.83652			0.82394	7.583

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Curve Type : Average

Compound	0.20000 Level 1	0.30000 Level 2	0.40000 Level 3	0.80000 Level 5	2.000 Level 6	5.000 Level 7	___ RRF	% RSD
	20.000 Level 8	50.000 Level 9	100.000 Level 10	200.000 Level 11				
211 1,4-Dichloro-2-Butene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
212 3-Ethyltoluene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
213 1,2,4-Trichlorobenzene	+++++	+++++	+++++	0.71002	0.66782	0.64576		
	0.65017	0.63495	0.61851	0.60493			0.64745	5.329
214 beta-Pinene	+++++	+++++	+++++	+++++	0.54151	0.53036		
	0.67946	0.65113	0.63417	0.59457			0.60520	9.978
215 Hexachlorobutadiene	+++++	+++++	+++++	0.49962	0.46757	0.46752		
	0.48336	0.46306	0.45184	0.43985			0.46755	4.199
216 Naphthalene	+++++	+++++	+++++	2.13893	1.88697	1.80653		
	1.68885	1.66568	1.66426	1.63632			1.78393	10.139
217 Limonene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
218 Benzaldehyde	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
219 Indan	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++

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Curve Type : Average

Compound	0.20000 Level 1	0.30000 Level 2	0.40000 Level 3	0.80000 Level 5	2.000 Level 6	5.000 Level 7	___ RRF	% RSD
	20.000 Level 8	50.000 Level 9	100.000 Level 10	200.000 Level 11				
220 Indene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
221 Isobutylbenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
222 1,2,3-Trichlorobenzene	+++++	+++++	+++++	0.63389	0.62486	0.61694		
	0.60906	0.58618	0.57674	0.56264			0.60147	4.424
223 2-Ethyltoluene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
224 1-Undecene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
225 4-Ethyl-1,2-dimethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
226 1,3-Diethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
227 1,4-Diethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
228 1,2,4,5-tetramethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++

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Curve Type : Average

Compound	0.20000 Level 1 / 20.000 Level 8	0.30000 Level 2 / 50.000 Level 9	0.40000 Level 3 / 100.000 Level 10	0.80000 Level 5 / 200.000 Level 11	2.000 Level 6	5.000 Level 7	___ RRF	% RSD
229 1-Dodecene	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++
230 Nitrobenzene	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++
231 Tridecane	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++
232 2-Methylnaphthalene	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++
233 1,3,5-Triethylbenzene	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++
M 234 1,2-Dichloroethene (Total)	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++
M 235 Chlorobutane (Total)	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++
M 236 Total Xylene	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++
M 237 3 and 4-Ethyltoluene	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++

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Compound	0.20000 Level 1 / 20.000 Level 8	0.30000 Level 2 / 50.000 Level 9	0.40000 Level 3 / 100.000 Level 10	0.80000 Level 5 / 200.000 Level 11	2.000 Level 6	5.000 Level 7	___ RRF	% RSD
238 Total Volatile Hydrocarbons	#####	#####	#####	#####	#####	#####		
	#####	#####	#####	#####			#####	#####
239 TPH reference to Hexane	#####	#####	#####	#####	#####	#####		
	#####	#####	#####	#####			#####	#####
240 TPH reference to Heptane	#####	#####	#####	#####	#####	#####		
	#####	#####	#####	#####			#####	#####
241 TPH reference to Gasoline	#####	#####	#####	#####	#####	#####		
	#####	#####	#####	#####			#####	#####
242 TPH reference MineralSpirits	#####	#####	#####	#####	#####	#####		
	#####	#####	#####	#####			#####	#####
243 TPH reference to Stoddard	#####	#####	#####	#####	#####	#####		
	#####	#####	#####	#####			#####	#####
244 TVOC reference to Hexane	#####	#####	#####	#####	#####	#####		
	#####	#####	#####	#####			#####	#####
245 TVOC reference to Heptane	#####	#####	#####	#####	#####	#####		
	#####	#####	#####	#####			#####	#####
246 TVOC reference to Toluene	#####	#####	#####	#####	#####	#####		
	#####	#####	#####	#####			#####	#####

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Compound	0.20000 Level 1 / 20.000 Level 8	0.30000 Level 2 / 50.000 Level 9	0.40000 Level 3 / 100.000 Level 10	0.80000 Level 5 / 200.000 Level 11	2.000 Level 6	5.000 Level 7	___ RRF	% RSD
247 TVOC reference to Toluene-d8	##### / #####	##### / #####	##### / #####	##### / #####	#####	#####	#####	#####
248 NMOC reference to Hexane	##### / #####	##### / #####	##### / #####	##### / #####	#####	#####	#####	#####
249 NMOC reference to Heptane	##### / #####	##### / #####	##### / #####	##### / #####	#####	#####	#####	#####
250 NMOC reference to Toluene	##### / #####	##### / #####	##### / #####	##### / #####	#####	#####	#####	#####
251 C3 - C4 Hydrocarbons	##### / #####	##### / #####	##### / #####	##### / #####	#####	#####	#####	#####
252 C4 - C5 Hydrocarbons	##### / #####	##### / #####	##### / #####	##### / #####	#####	#####	#####	#####
253 C5 - C6 Hydrocarbons	##### / #####	##### / #####	##### / #####	##### / #####	#####	#####	#####	#####
254 C6 - C7 Hydrocarbons	##### / #####	##### / #####	##### / #####	##### / #####	#####	#####	#####	#####
255 C7 - C8 Hydrocarbons	##### / #####	##### / #####	##### / #####	##### / #####	#####	#####	#####	#####

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Compound	0.20000 Level 1 / 20.000 Level 8	0.30000 Level 2 / 50.000 Level 9	0.40000 Level 3 / 100.000 Level 10	0.80000 Level 5 / 200.000 Level 11	2.000 Level 6	5.000 Level 7	___ RRF	% RSD
256 C8 - C9 Hydrocarbons	##### / #####	##### / #####	##### / #####	##### / #####	#####	#####	#####	#####
257 C9 - C10 Hydrocarbons	##### / #####	##### / #####	##### / #####	##### / #####	#####	#####	#####	#####
258 C10+ Hydrocarbons	##### / #####	##### / #####	##### / #####	##### / #####	#####	#####	#####	#####
259 C5 - C6 Aliphatic ref C5 + C6	##### / #####	##### / #####	##### / #####	##### / #####	#####	#####	#####	#####
260 C6-C8 Aliphatic ref Heptane	##### / #####	##### / #####	##### / #####	##### / #####	#####	#####	#####	#####
261 C8-C10 Aliphatic ref Decane	##### / #####	##### / #####	##### / #####	##### / #####	#####	#####	#####	#####
262 C10-C12 Aliphatic ref Dodecan	##### / #####	##### / #####	##### / #####	##### / #####	#####	#####	#####	#####
263 C8-C10 Aromatic	##### / #####	##### / #####	##### / #####	##### / #####	#####	#####	#####	#####
264 C8-C10 Aromatic ref 1,2,3-TMB	##### / #####	##### / #####	##### / #####	##### / #####	#####	#####	#####	#####

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Compound	0.20000 Level 1	0.30000 Level 2	0.40000 Level 3	0.80000 Level 5	2.000 Level 6	5.000 Level 7	___ RRF	% RSD
	20.000 Level 8	50.000 Level 9	100.000 Level 10	200.000 Level 11				
265 C10-C12 Aromatic	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
266 C10-C12 Aromatic 1,2,4,5-TMB	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
267 C10-C12 Aromatic Naphthalene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
$ 104 1,2-Dichloroethane-d4	1.39482	1.39254	1.42001	1.39176	1.39476	1.39246		
	1.38374	1.36918	1.36382	1.42564			1.39287	1.376
$ 133 Benzene-d6	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
$ 134 Toluene-d8	0.97357	1.00567	1.01231	1.00975	1.00934	1.01397		
	1.00503	1.01619	1.01583	1.01312			1.00748	1.243
$ 170 4-Bromofluorobenzene	0.62236	0.65983	0.65279	0.64406	0.65657	0.65445		
	0.66257	0.66456	0.66367	0.65561			0.65365	1.923

Report Date: 10-Sep-2021 10:01

Calibration History

Method : /chem/msd3.i/02SEP21.b/321q0812b.m
Start Cal Date: 12-AUG-2021 16:21
End Cal Date : 02-SEP-2021 10:33

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.20000		
02-SEP-2021 10:33	Level1	/chem/msd3.i/02SEP21.b/3090203.d
Cal Level: 2 , Cal Amount: 0.30000		
12-AUG-2021 16:21	12EDBcrv	/chem/msd3.i/12AUG21.b/3081202x.d
12-AUG-2021 16:21	AT20_Level2	/chem/msd3.i/12AUG21.b/3081202.d
Cal Level: 3 , Cal Amount: 0.40000		
12-AUG-2021 20:58	AT20spICAL_lv3	/chem/msd3.i/12AUG21.b/3081212.d
12-AUG-2021 16:48	AT20_Level3	/chem/msd3.i/12AUG21.b/3081203.d
Cal Level: 5 , Cal Amount: 0.80000		
12-AUG-2021 23:13	AT20spICAL_lv3	/chem/msd3.i/12AUG21.b/3081215.d
12-AUG-2021 17:15	AT20_Level5	/chem/msd3.i/12AUG21.b/3081204.d
Cal Level: 6 , Cal Amount: 2.00000		
12-AUG-2021 23:40	AT20spICAL	/chem/msd3.i/12AUG21.b/3081216.d
12-AUG-2021 17:41	AT20ICAL	/chem/msd3.i/12AUG21.b/3081205.d
Cal Level: 7 , Cal Amount: 5.00000		
13-AUG-2021 00:09	AT20spICAL	/chem/msd3.i/12AUG21.b/3081217.d
12-AUG-2021 18:11	AT20ICAL	/chem/msd3.i/12AUG21.b/3081206.d
Cal Level: 8 , Cal Amount: 20.00000		
13-AUG-2021 00:36	AT20spICAL	/chem/msd3.i/12AUG21.b/3081218.d
12-AUG-2021 18:37	AT20ICAL	/chem/msd3.i/12AUG21.b/3081207.d

Cal Level: 9 , Cal Amount: 50.00000		
13-AUG-2021 01:04	AT20spICAL	/chem/msd3.i/12AUG21.b/3081219.d
12-AUG-2021 19:05	AT20ICAL	/chem/msd3.i/12AUG21.b/3081208.d

Cal Level: 10, Cal Amount: 100.00000		
13-AUG-2021 01:31	AT20spICAL	/chem/msd3.i/12AUG21.b/3081220.d
12-AUG-2021 19:32	AT20ICAL	/chem/msd3.i/12AUG21.b/3081209.d

Cal Level: 11, Cal Amount: 200.00000		
13-AUG-2021 02:00	AT20spICAL	/chem/msd3.i/12AUG21.b/3081221.d
12-AUG-2021 20:01	AT20ICAL	/chem/msd3.i/12AUG21.b/3081210.d

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 9

Ccal Level: 9 , Ccal Amount: 50.000		
02-SEP-2021 11:00	AT20_new	/chem/msd3.i/02SEP21.b/3090204.d

US32TAR1

INITIAL CALIBRATION DATA

up 9/3/21

Start Cal Date : 12-AUG-2021 16:21
End Cal Date : 02-SEP-2021 10:33
Quant Method : ISTD
Origin : Disabled
Target Version : 3.60
Integrator : HP RTE
Method file : /chem/msd3.i/02SEP21.b/321q0812b.m
Cal Date : 03-Sep-2021 15:45 lk8g
Curve Type : Average

Calibration File Names:
Level 1: /chem/msd3.i/02SEP21.b/3090203.d
Level 2: /chem/msd3.i/12AUG21.b/3081202x.d
Level 3: /chem/msd3.i/12AUG21.b/3081212.d
Level 5: /chem/msd3.i/12AUG21.b/3081215.d
Level 6: /chem/msd3.i/12AUG21.b/3081216.d
Level 7: /chem/msd3.i/12AUG21.b/3081217.d
Level 8: /chem/msd3.i/12AUG21.b/3081218.d
Level 9: /chem/msd3.i/12AUG21.b/3081219.d
Level 10: /chem/msd3.i/12AUG21.b/3081220.d
Level 11: /chem/msd3.i/12AUG21.b/3081221.d

gd 9/3/21

Compound	0.20000 Level 1	0.30000 Level 2	0.40000 Level 3	0.80000 Level 5	2.000 Level 6	5.000 Level 7	RRF	% RSD
	20.000 Level 8	50.000 Level 9	100.000 Level 10	200.000 Level 11				
1 Dimethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
2 1,1-Dichloro-1-Fluoroethane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
3 Freon 143a	+++++	+++++	+++++	+++++	0.55996	0.52138		
	0.53779	0.52335	0.49966	0.44634			0.51475	7.574
4 Freon 134a	+++++	+++++	+++++	0.83288	0.73560	0.73651		
	0.73450	0.68638	0.67493	0.66915			0.72428	7.787
5 Propylene	+++++	+++++	+++++	+++++	0.74116	0.74452		
	0.71379	0.68783	0.68511	0.67933			0.70862	4.098

Initial Calibration Narrative
321Q0812B.m

A multi-point TO-15 initial calibration was analyzed on MSD-3 on 08/12/2021.

ICAL: 1 out. 1,3 Butadiene @ 35.6%.
Naph: 10.1%RSD.

ICV: 1 out. Cyclohexanone @ 58.9%. File: 3081224
Naph Recovery: 73.5%R.
DOD QSM: 1 out. Cyclohexanone @ 58.9%. File: 3081224a.
RCP: Multiple Non-RCP compounds out: See file 3081224c.
DODsp (PID 23339): 1 out. Cyclohexanone @ 58.9%. File: 3081224d.

1,2-Dibromoethane (EDB) only:
ICV: 0 out. File: 3090205.
DOD QSM: 0 out File: 3090205c.
RCP: 0 out. See file 3090205d.
DODsp (PID 23339): 0 out. File: 3090205e.

The concentrations for Ethanol, Acrolein, 1,2,4-Trichlorobenzene, Naphthalene, 1,2,3-Trichlorobenzene, and Hexachlorobutadiene were adjusted in the ICV due to the certified concentration exceeding more than 15% of the nominal concentration.

An 8-point ICAL for AT20 supplemental compounds was analyzed on MSD-3 on 08/12/2021.

An additional 0.2ppbv point was analyzed on MSD-3 on 09/02/2021.

ICAL: 0 out.

NO ICV for AT20 supplemental compounds except 1,1,1,2-Tetrachloroethane.

The low point spike verification file is 3081203x for BTEXS.

The concentrations for Dodecane, 1,2,4-TCB, Hexachlorobutadiene, 1,2,3-TCB, and Naphthalene were adjusted in the calibration due to the certified concentration exceeding more than 15% of the nominal concentration.

-Dodecane was curved at 0.4944ppbv→ 247.2ppbv.
-1,2,4-TCB was curved at 1.0072ppbv→251.8ppbv
-Hexachlorobutadiene was curved at 1.0296ppbv→257.4ppbv
-1,2,3-TCB was curved at 1.0648ppbv→266.2ppbv
-Naphthalene was curved at 0.10160ppbv →25.4ppbv*

*The secondary mass ion peak, 127amu, for Naphthalene shows baseline interference at the special reporting limit of 0.10160 ppbv. Identification of Naphthalene is however reliable at the lowest concentrations based on the presence and abundance ratio of the primary ion. The spectrum of Naphthalene in this ICAL point will be used as the reference to determine the ion ratio target in the samples for this ICAL.

The following compounds were calibrated down to 0.3ppbv:

1,1-Dichloroethane Chloroform 1,1,1-Trichloroethane

Bromodichloroethane Chlorobenzene

BFB tune file:

1. 3081201.
2. 3090202

The AT20MDL Expires 6/8/22.

The MDL for 1,1,1,2-PCE expires 05/05/22.

MSD3

BFB Tune Verification: (243136/261056) * 100 = 93.14%

3234-66	Exp. Date:	11/2/2021	
BCM	229903		
1,4-DFB	822152		
CB-d5	775771		

Verified CCV vs. ICAL midpoint (-40%): gd

Method: 321q0812a.m

Method TO-15/TO-14

SOP# 6

Vacuum: NA

Surrogate # 3234-66		Exp Date:	11/2/2021		Exp Date
CCV	3018-2213	Exp Date:	11/6/2021	LCS 3018-2200	Exp Date 11/4/2021
CCV SP 1 #	3018-2220	Exp Date:	11/6/2021	LCS Sp #1 NA	Exp Date NA
CCV SP 2 #	3018-2128	Exp Date:	9/26/2021	LCS Sp #2 NA	Exp Date NA
CCV SP 3#	3018-2127	Exp Date:	9/26/2021	LCS Sp #3 NA	Exp Date NA
CCV SP 4#	NA	Exp Date:	NA		

Use	File #	Enter/Scan Sample ID	Canister#	Cart Pos.	Pressure	Amount	DF	Verify Load	Loaded Init	Date Analyzed	Time	Review Init	Comments
√	3081201	BFB Tune Check	3234-66	12	36ng	200mL	1.00	LD	LD	08/12/21	1523	LD	Exp. 11/2/21
√	3081202	ICAL Level #2	3018-2220	1	0.3ppbv(5.0ppbv)	12ml	1.00	gd	LD	08/12/21	1621	gd	Exp. 11/6/21
√	3081203	ICAL Level #3	3018-2220	1	0.4ppbv(5.0ppbv)	16ml	1.00	gd	LD	08/12/21	1648	gd	
√	3081204	ICAL Level #5	3018-2220	1	0.8ppbv(5.0ppbv)	32ml	1.00	gd	LD	08/12/21	1715	gd	
√	3081205	ICAL Level #6	3018-2220	1	2.0ppbv(5.0ppbv)	80ml	1.00	gd	LD	08/12/21	1741	gd	
√	3081206	ICAL Level #7	3018-2220	1	5.0ppbv(5.0ppbv)	200ml	1.00	gd	LD	08/12/21	1811	gd	
√	3081207	ICAL Level #8	3018-2213	13	20ppbv(200ppbv)	20ml	1.00	gd	LD	08/12/21	1837	gd	
√	3081208	ICAL Level #9	3018-2213	13	50ppbv(200ppbv)	50ml	1.00	gd	LD	08/12/21	1905	gd	
√	3081209	ICAL Level #10	3018-2213	13	100ppbv(200ppbv)	100ml	1.00	gd	LD	08/12/21	1932	gd	
√	3081210	ICAL Level #11	3018-2213	13	200ppbv(200ppbv)	200ml	1.00	gd	LD	08/12/21	2001	gd	
√	3081211	System Blank	34353	12	Humid	200ml	1.00	gd	LD	08/12/21	2031	gd	
√	3081212	ICAL Level #3	#3018-2128	2	0.4ppbv(5.0ppbv)	16ml	1.00	gd	LD	08/12/21	2058	gd	Exp. 9/26/21
X	3081213	ICAL Level #5	#3018-2128	2	0.8ppbv(5.0ppbv)	32ml	1.00	NA	LD	08/12/21	NA	NA	method engine error
√	3081214	System Blank	34353	12	Humid	200ml	1.00	LD	gh	08/12/21	2247	gd	
√	3081215	ICAL Level #5	#3018-2128	2	0.8ppbv(5.0ppbv)	32ml	1.00	LD	gh	08/12/21	2313	gd	
√	3081216	ICAL Level #6	#3018-2128	2	2.0ppbv(5.0ppbv)	80ml	1.00	LD	gh	08/12/21	2340	gd	
√	3081217	ICAL Level #7	#3018-2128	2	5.0ppbv(5.0ppbv)	200ml	1.00	LD	gh	08/13/21	0009	gd	
√	3081218	ICAL Level #8	#3018-2127	3	20ppbv(200ppbv)	20ml	1.00	LD	gh	08/13/21	0036	gd	
√	3081219	ICAL Level #9	#3018-2127	3	50ppbv(200ppbv)	50ml	1.00	LD	gh	08/13/21	0104	gd	
√	3081220	ICAL Level #10	#3018-2127	3	100ppbv(200ppbv)	100ml	1.00	LD	gh	08/13/21	0131	gd	
√	3081221	ICAL Level #11	#3018-2127	3	200ppbv(200ppbv)	200ml	1.00	LD	gh	08/13/21	0200	gd	
√	3081222	System Blank	34353	12	Humid	200ml	1.00	LD	gh	08/13/21	0229	gd	
√	3081223	System Blank	34353	12	Humid	200ml	1.00	LD	gh	08/13/21	0259	gd	
√	3081224	ICV	3018-2200	14	50ppbv(200ppbv)	50ml	1.00	LD	LD	08/13/21	0856	gd	Exp. 11/4/21

8/13/21

MSD3

BFB Tune Verification: (216704/232768) * 100 =93.09%							Method TO-15/TO-14						
	3234-66	Exp. Date:	11/2/2021				SOP# 6						
BCM	195418			Surrogate # 3234-66			Vacuum:	NA					
1,4-DFB	668438			CCV	3018-2213A		Exp Date:	11/2/2021			Exp Date		
CB-d5	630301			CCV SP 1 #	NA		Exp Date:	11/6/2021	LCS	3018-2169	Exp Date	10/25/2021	
				CCV SP 2 #	NA		Exp Date:	NA	LCS Sp #1	NA	Exp Date	NA	
				CCV SP 3#	NA		Exp Date:	NA	LCS Sp #2	NA	Exp Date	NA	
Verified CCV vs. ICAL midpoint (-40%): LD				CCV SP 4#	NA		Exp Date:	NA	LCS Sp #3	NA	Exp Date	NA	
Method: 321q0812a.m													

Use	File #	Enter/Scan Sample IDs	Canister#	Cart Pos.	Pressure	Amount	DF	Verify Load	Loaded Init.	Date Analyzed	Time	Review Init	Comments
√	3090202	BFB Tune Check	3234-66	12	36ng	200ml	1.00	LD	LD	09/02/21	0950	LD	Exp. 11/2/21.
√	3090203	ICAL Level 1	3018-2235	10	0.2ppbv(1.0ppbv)	40mL	1.00	LD	LD	09/02/21	1033	LD	Exp. 11/18/21.
√	3090204	CCV	3018-2213A	13	50ppbv (100ppbv)	100mL	1.00	LD	LD	09/02/21	1100	LD	Exp. 11/6/21; 1 out AT-20
√	3090205	LCS	3018-2169	14	50ppbv (200ppbv)	50mL	1.00	LD	LD	09/02/21	1128	LD	Exp. 10/25/21; 2 out AT-20. ICV.
√	3090206	LCSD	3018-2169	14	50ppbv (200ppbv)	50mL	1.00	LD	LD	09/02/21	1155	LD	Exp. 10/25/21; RPD ok
√	3090207	Lab Blank	35157	10	Humid	200mL	1.00	LD	LD	09/02/21	1240	LD	leg validation
√	3090208	IDOC	N1781	12	1.0ppbv(5.0ppbv)	40ml	1.00	LD	gn	09/02/21	1348	gn	gn/2
√	3090209	IDOC	N1781	12	2.0ppbv(5.0ppbv)	80ml	1.00	LD	gn	09/02/21	1415	gn	gn/2
√	3090210	System Blank	35157	10	Humid	200mL	1.00	LD	gn	09/02/21	1444	LD	
√	3090211	2108678-01A	3004	1	28.5 Hg->10 psi	200mL	1.00	DF	LD	09/02/21	1544	DF	trip blank DF=1.00
√	3090212	2108678-02A	S1495	2	6.5 Hg->10 psi	200mL	2.14	DF	LD	09/02/21	1613	DF	
√	3090213	2108678-03A	O1051	3	5.0 Hg->10 psi	200mL	2.02	DF	LD	09/02/21	1642	DF	
√	3090214	2108678-04A	1L1780	4	5.5 Hg->10 psi	200mL	2.06	DF	LD	09/02/21	1711	DF	green dot Pi=6.9psi Pf=3.8psi
√	3090215	2108678-05A	O0819	5	5.5 Hg->10 psi	200mL	2.06	DF	LD	09/02/21	1740	DF	
√	3090216	2108678-06A	S1488	6	7.0 Hg->10 psi	200mL	2.19	DF	LD	09/02/21	1810	DF	
√	3090217	2108678-07A	N1982	7	7.0 Hg->10 psi	200mL	2.19	DF	LD	09/02/21	1839	DF	
√	3090218	2108678-08A	N1450	8	6.5 Hg->10 psi	200mL	2.14	DF	LD	09/02/21	1908	DF	
√	3090219	2108678-09A	O1032	9	3.0 Hg->10 psi	200mL	1.87	DF	LD	09/02/21	1937	DF	
√	3090220	2108698-01A	5584	1	6.5 Hg->1.8 psi	200mL	1.43	LD	DF	09/02/21	2158	LD	
√	3090221	2108698-02A	0211	2	7.3 Hg->1.9 psi	200mL	1.49	LD	DF	09/02/21	2227	LD	
√	3090222	2108698-03A	N2781	3	9.2 Hg->1.9 psi	200mL	1.63	LD	DF	09/02/21	2256	LD	"E" Ethanol>400
√	3090223	2108678-10A	S1669	4	5.5 Hg->10 psi	200mL	2.06	LD	DF	09/02/21	2325	LD	Ethanol ND
√	3090224	2108678-11A	N3120	5	7.0 Hg->10 psi	50mL	8.77	LD	DF	09/02/21	2353	LD	dil TC
√	3090225	2108678-12A	N5570	6	2.5 Hg->10 psi	200mL	1.83	LD	DF	09/03/21	0022	LD	
√	3090226	2108678-15A	1L1621	7	4.0 Hg->10 psi	30mL	12.9	LD	DF	09/03/21	0049	LD	dil TC
√	3090227	2108678-16A	O0782	8	7.0 Hg->10 psi	160mL	2.74	LD	DF	09/03/21	0118	LD	dil TC
√	3090228	2108697B-04A	N2594	9	6.5 Hg->10 psi	200mL	2.14	LD	DF	09/03/21	0147	LD	
√	3090229	2108697B-05A	N2583	10	5.5 Hg->10 psi	200mL	2.06	LD	DF	09/03/21	0216	LD	
√	3090230	2108697B-06A	1L1774	11	7.5 Hg->10 psi	200mL	2.24	LD	DF	09/03/21	0246	LD	

gd 9/3/21

IS and Associated Target Compounds and Surr.
Instruction #: I1.20

Modified EPA Methods TO-14A/TO-15
Internal Standard and Associated Target Compounds and Surrogates

Bromochloromethane*
Target Compounds:
Freon 12
Freon 114
Chloromethane
Vinyl Chloride
1,3-Butadiene
Bromomethane
Chloroethane
Freon 11
Ethanol
Freon 113
1,1-Dichloroethene
Acetone
2-Propanol
Carbon Disulfide
3-Chloropropene
Methylene Chloride
Methyl tert-butyl ether
trans-1,2-Dichloroethene
Hexane
1,1-Dichloroethane
2-Butanone (Methyl Ethyl Ketone)
cis-1,2-Dichloroethene
Tetrahydrofuran
Chloroform
1,1,1-Trichloroethane
Cyclohexane
Carbon Tetrachloride
2,2,4-Trimethylpentane
Surrogates:
1,2-Dichloroethane-d4

1,4-Difluorobenzene
Target Compounds:
Benzene
1,2-Dichloroethane
Heptane
Trichloroethene
1,2-Dichloropropane
1,4-Dioxane
Bromodichloromethane
cis-1,3-Dichloropropene
4-Methyl-2-pentanone
Toluene
Surrogates:
Toluene-d8

Chlorobenzene-d5
Target Compounds:
trans-1,3-Dichloropropene
1,1,2-Trichloroethane
Tetrachloroethene
2-Hexanone
Dibromochloromethane
1,2-Dibromoethane (EDB)
Chlorobenzene
Ethyl Benzene
m,p-Xylene
o-Xylene
Styrene
Bromoform
Cumene
1,1,2,2-Tetrachloroethane
Propylbenzene
4-Ethyltoluene
1,3,5-Trimethylbenzene
1,2,4-Trimethylbenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
alpha-Chlorotoluene
1,2-Dichlorobenzene
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Surrogates:
Bromofluorobenzene

*Note: If Bromochloromethane (BCM) is required as a target compound, the internal standard mix is blended without BCM. Compounds and surrogates assigned to BCM are re-assigned to 1,4-Difluorobenzene for calibration and subsequent quantitation.

US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msd3.i/02SEP21.b/3090203.d
Lab Smp Id: ICAL Level
Inj Date : 02-SEP-2021 10:33
Operator : LD Inst ID: msd3.i
Smp Info : 40mL 3018-2235
Misc Info : 0.2ppbv(1.0ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msd3.i/02SEP21.b/321q0812b.m
Meth Date : 03-Sep-2021 15:45 lk8g Quant Type: ISTD
Cal Date : 02-SEP-2021 10:33 Cal File: 3090203.d
Als bottle: 10 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: Level1.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

	RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
*	90 Bromochloromethane					CAS #: 74-97-5		
	5.858	5.858 (1.000)	130	236087	25.0000		80.00- 120.00	100.00
	5.858	5.858 (1.000)	128	179465			47.29- 107.29	76.02
	5.858	5.858 (1.000)	49	383747			122.83- 182.83	162.54
*	108 1,4-Difluorobenzene					CAS #: 540-36-3		
	6.742	6.750 (1.000)	114	826573	25.0000		80.00- 120.00	100.00
	6.742	6.750 (1.000)	88	124604			0.00- 45.09	15.07
*	153 Chlorobenzene-d5					CAS #: 3114-55-4		
	9.207	9.206 (1.000)	117	744201	25.0000		80.00- 120.00	100.00
	9.207	9.206 (1.000)	82	402721			23.62- 83.62	54.11
$	104 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
	6.390	6.404 (1.091)	65	329299	25.0000	25.035	80.00- 120.00	100.00
	6.390	6.404 (1.091)	67	161026			20.51- 80.51	48.90
$	134 Toluene-d8					CAS #: 2037-26-5		
	7.967	7.967 (1.182)	98	804727	25.0000	24.159	80.00- 120.00	100.00
	7.967	7.967 (1.182)	70	93076			0.00- 42.00	11.57

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
$ 134 Toluene-d8 (continued)							
7.967	7.967 (1.182)	100	540647			37.14- 97.14	67.18
$ 170 4-Bromofluorobenzene					CAS #: 460-00-4		
10.195	10.202 (1.107)	174	463164	25.0000	23.804	80.00- 120.00	100.00
10.195	10.202 (1.107)	95	563438			92.25- 152.25	121.65
10.195	10.202 (1.107)	176	426341			63.07- 123.07	92.05
148 1,2-Dibromoethane (EDB)					CAS #: 106-93-4		
8.856	8.855 (0.962)	107	3304	0.20000	0.2158	80.00- 120.00	100.00(a)
8.856	8.855 (0.962)	109	3257			64.74- 124.74	98.58

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd3.i
Lab File ID: 3090203.d
Lab Smp Id: ICAL Level
Analysis Type: VOA
Quant Type: ISTD
Operator: LD
Method File: /chem/msd3.i/02SEP21.b/321q0812b.m
Misc Info: 0.2ppbv(1.0ppbv)

Calibration Date: 02-SEP-2021
Calibration Time: 10:33
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	236087	141652	330522	236087	0.00
108 1,4-Difluorobenze	826573	495944	1157202	826573	0.00
153 Chlorobenzene-d5	744201	446521	1041881	744201	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.86	5.53	6.19	5.86	0.00
108 1,4-Difluorobenze	6.74	6.41	7.07	6.74	0.00
153 Chlorobenzene-d5	9.21	8.88	9.54	9.21	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msd3.i/02SEP21.b/3090203.d

Date : 02-SEP-2021 10:33

Client ID:

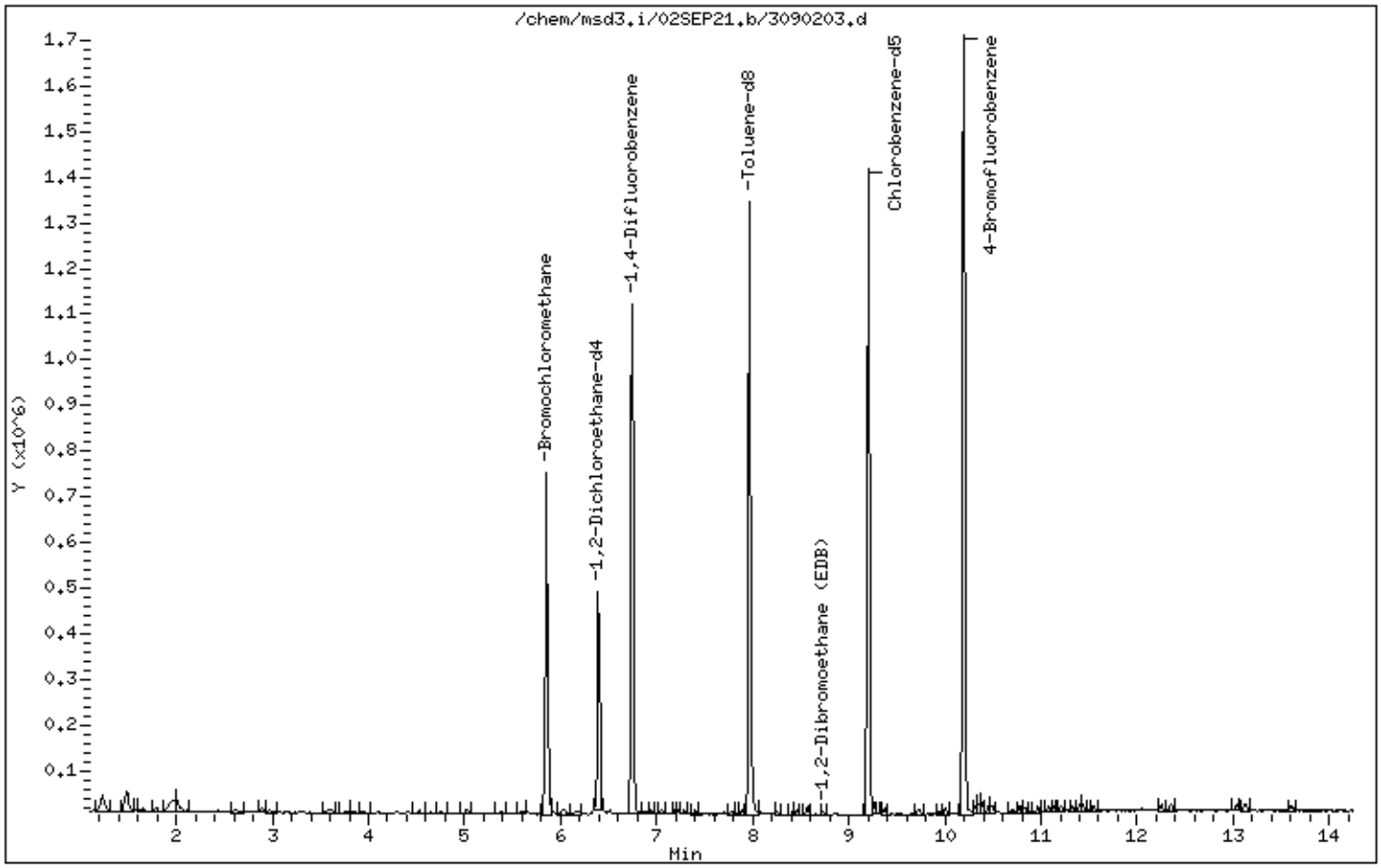
Instrument: msd3.i

Sample Info: 40mL 3018-2235

Operator: LD

Column phase: RTX-624

Column diameter: 0.25



US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msd3.i/12AUG21.b/3081202.d
Lab Smp Id: ICAL Level #2
Inj Date : 12-AUG-2021 16:21
Operator : LD Inst ID: msd3.i
Smp Info : 12ml 3018-2220
Misc Info : 0.3ppbv(5.0ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msd3.i/12AUG21.b/321q0812a.m
Meth Date : 13-Aug-2021 08:08 ugdc Quant Type: ISTD
Cal Date : 12-AUG-2021 16:21 Cal File: 3081202.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT20_Level2.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
71 1,1-Dichloroethane						CAS #: 75-34-3	
5.047	5.047 (0.861)	63	4416	0.30000	0.3289	80.00- 120.00	100.00(a)
5.047	5.047 (0.861)	65	1606			0.56- 60.56	36.37
* 90 Bromochloromethane						CAS #: 74-97-5	
5.858	5.858 (1.000)	130	204535	25.0000		80.00- 120.00	100.00
5.858	5.858 (1.000)	128	157418			47.29- 107.29	76.96
5.858	5.858 (1.000)	49	315013			122.83- 182.83	154.01
92 Chloroform						CAS #: 67-66-3	
5.914	5.914 (1.010)	83	4766	0.30000	0.3220	80.00- 120.00	100.00(a)
5.914	5.914 (1.010)	85	3012			34.29- 94.29	63.20
96 1,1,1-Trichloroethane						CAS #: 71-55-6	
6.040	6.054 (1.031)	97	5149	0.30000	0.3236	80.00- 120.00	100.00(a)
6.054	6.054 (1.033)	99	3439			34.55- 94.55	66.79
$ 104 1,2-Dichloroethane-d4						CAS #: 17060-07-0	
6.404	6.404 (1.093)	65	284823	25.0000	25.211	80.00- 120.00	100.00
6.404	6.404 (1.093)	67	136327			20.51- 80.51	47.86

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
* 108 1,4-Difluorobenzene					CAS #: 540-36-3		
6.750	6.750 (1.000)	114	720556	25.0000		80.00- 120.00	100.00
6.750	6.750 (1.000)	88	108254			0.00- 45.09	15.02
122 Bromodichloromethane					CAS #: 75-27-4		
7.402	7.409 (1.097)	83	4848	0.30000	0.3151	80.00- 120.00	100.00(a)
7.402	7.409 (1.097)	85	3364			33.85- 93.85	69.39
$ 134 Toluene-d8					CAS #: 2037-26-5		
7.968	7.967 (1.180)	98	724638	25.0000	24.870	80.00- 120.00	100.00
7.968	7.967 (1.180)	70	83508			0.00- 42.00	11.52
7.968	7.967 (1.180)	100	487729			37.14- 97.14	67.31
* 153 Chlorobenzene-d5					CAS #: 3114-55-4		
9.207	9.207 (1.000)	117	674163	25.0000		80.00- 120.00	100.00
9.207	9.207 (1.000)	82	362771			23.62- 83.62	53.81
154 Chlorobenzene					CAS #: 108-90-7		
9.228	9.235 (1.002)	112	6918	0.30000	0.3193	80.00- 120.00	100.00(a)
9.235	9.235 (1.003)	114	2841			2.19- 62.19	41.07
9.207	9.228 (1.000)	77	12027			23.66- 83.66	173.85
$ 170 4-Bromofluorobenzene					CAS #: 460-00-4		
10.202	10.202 (1.108)	174	444833	25.0000	24.911	80.00- 120.00	100.00
10.195	10.195 (1.107)	95	541163			92.25- 152.25	121.66
10.202	10.202 (1.108)	176	411839			63.07- 123.07	92.58

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd3.i
Lab File ID: 3081202.d
Lab Smp Id: ICAL Level #2
Analysis Type: VOA
Quant Type: ISTD
Operator: LD
Method File: /chem/msd3.i/12AUG21.b/321q0812a.m
Misc Info: 0.3ppbv(5.0ppbv)

Calibration Date: 12-AUG-2021
Calibration Time: 19:05
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	229903	137942	321864	204535	-11.03
108 1,4-Difluorobenze	822152	493291	1151013	720556	-12.36
153 Chlorobenzene-d5	775771	465463	1086079	674163	-13.10

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.86	5.53	6.19	5.86	0.00
108 1,4-Difluorobenze	6.75	6.42	7.08	6.75	0.00
153 Chlorobenzene-d5	9.21	8.88	9.54	9.21	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msd3.i/12AUG21.b/3081202.d

Date : 12-AUG-2021 16:21

Client ID:

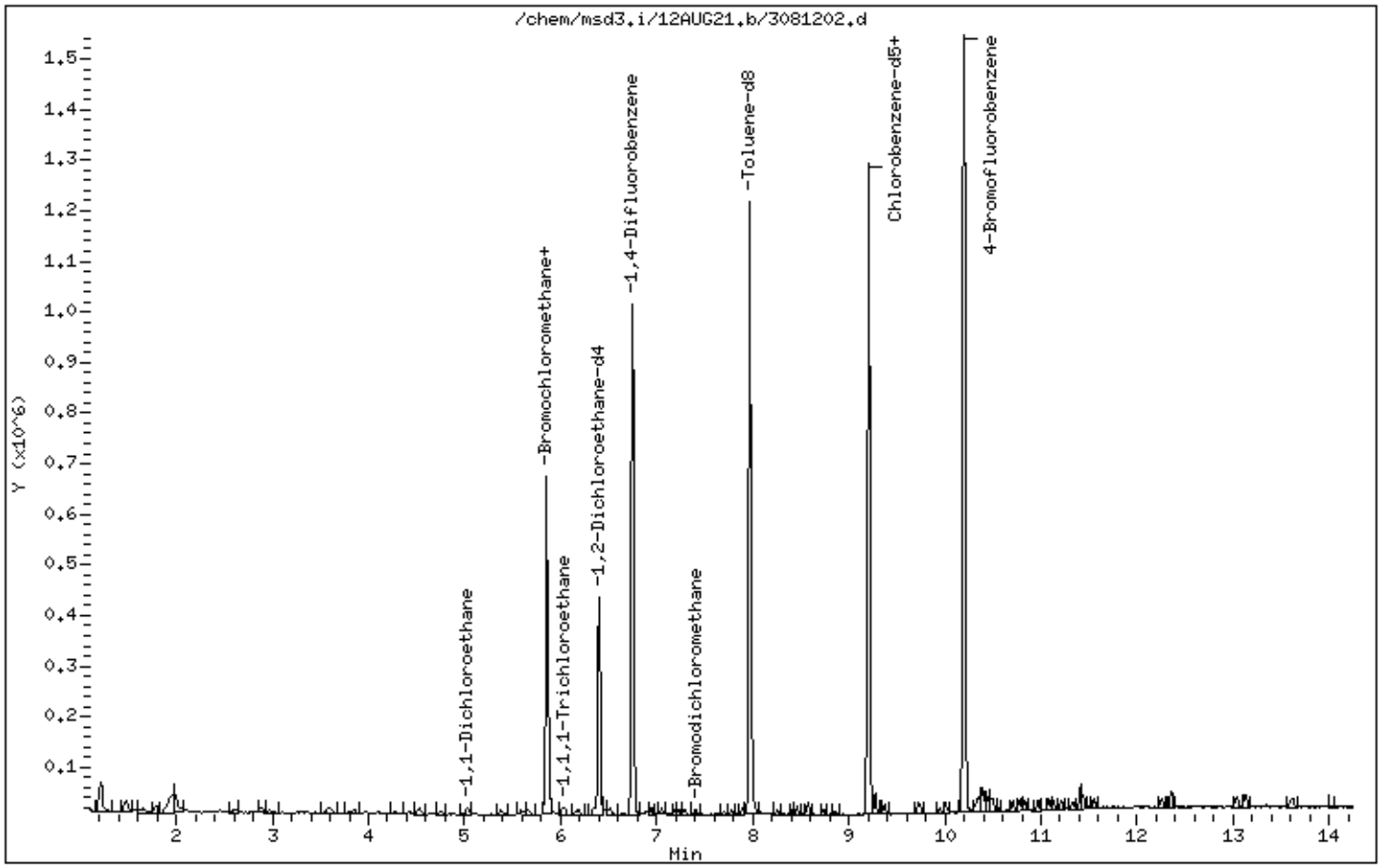
Instrument: msd3.i

Sample Info: 12ml 3018-2220

Operator: LD

Column phase: RTX-624

Column diameter: 0.25



US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msd3.i/12AUG21.b/3081202x.d
Lab Smp Id: ICAL Level #2
Inj Date : 12-AUG-2021 16:21
Operator : LD Inst ID: msd3.i
Smp Info : 12ml 3018-2220
Misc Info : 0.3ppbv(5.0ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msd3.i/02SEP21.b/321q0812b.m
Meth Date : 03-Sep-2021 15:41 lk8g Quant Type: ISTD
Cal Date : 12-AUG-2021 16:21 Cal File: 3081202x.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 12EDBcrv.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 90 Bromochloromethane					CAS #: 74-97-5		
5.858	5.858 (1.000)	130	204535	25.0000		80.00- 120.00	100.00
5.858	5.858 (1.000)	128	157418			47.29- 107.29	76.96
5.858	5.858 (1.000)	49	315013			122.83- 182.83	154.01
* 108 1,4-Difluorobenzene					CAS #: 540-36-3		
6.750	6.750 (1.000)	114	720556	25.0000		80.00- 120.00	100.00
6.750	6.750 (1.000)	88	108254			0.00- 45.09	15.02
* 153 Chlorobenzene-d5					CAS #: 3114-55-4		
9.207	9.206 (1.000)	117	674163	25.0000		80.00- 120.00	100.00
9.207	9.206 (1.000)	82	362771			23.62- 83.62	53.81
148 1,2-Dibromoethane (EDB)					CAS #: 106-93-4		
8.856	8.855 (0.962)	107	4106	0.30000	0.2987	80.00- 120.00	100.00(a)
8.856	8.855 (0.962)	109	4517			64.74- 124.74	110.01

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd3.i
Lab File ID: 3081202x.d
Lab Smp Id: ICAL Level #2
Analysis Type: VOA
Quant Type: ISTD
Operator: LD
Method File: /chem/msd3.i/02SEP21.b/321q0812b.m
Misc Info: 0.3ppbv(5.0ppbv)

Calibration Date: 12-AUG-2021
Calibration Time: 16:21
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	204535	122721	286349	204535	0.00
108 1,4-Difluorobenze	720556	432334	1008778	720556	0.00
153 Chlorobenzene-d5	674163	404498	943828	674163	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.86	5.53	6.19	5.86	0.00
108 1,4-Difluorobenze	6.75	6.42	7.08	6.75	0.00
153 Chlorobenzene-d5	9.21	8.88	9.54	9.21	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msd3.i/12AUG21.b/3081202x.d

Date : 12-AUG-2021 16:21

Client ID:

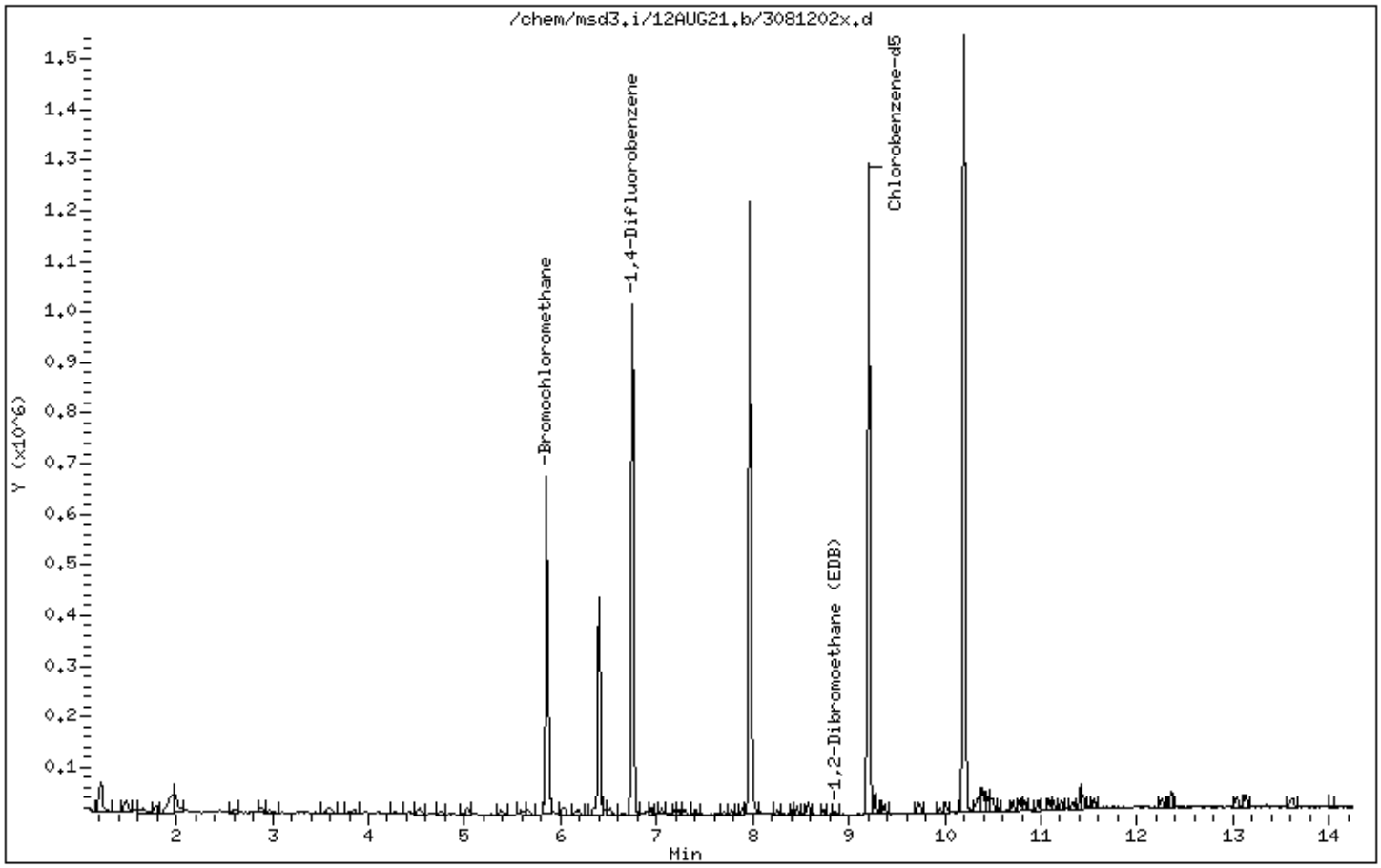
Instrument: msd3.i

Sample Info: 12ml 3018-2220

Operator: LD

Column phase: RTX-624

Column diameter: 0.25



US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msd3.i/12AUG21.b/3081203.d
Lab Smp Id: ICAL Level #3
Inj Date : 12-AUG-2021 16:48
Operator : LD Inst ID: msd3.i
Smp Info : 16ml 3018-2220
Misc Info : 0.4ppbv(5.0ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msd3.i/12AUG21.b/321q0812a.m
Meth Date : 13-Aug-2021 08:08 ugdc Quant Type: ISTD
Cal Date : 12-AUG-2021 16:48 Cal File: 3081203.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT20_Level3.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
8 Freon 12					CAS #: 75-71-8		
1.647	1.661 (0.281)	85	8384	0.40000	0.4235	80.00- 120.00	100.00(a)
1.647	1.661 (0.281)	87	3252			2.35- 62.35	38.79
10 Freon 114					CAS #: 76-14-2		
1.787	1.800 (0.305)	135	6942	0.40000	0.4423	80.00- 120.00	100.00(a)
1.800	1.800 (0.307)	137	2231			2.06- 62.06	32.14
19 Vinyl Chloride					CAS #: 75-01-4		
2.010	2.010 (0.343)	62	5203	0.40000	0.4981	80.00- 120.00	100.00(a)
2.010	2.010 (0.343)	64	2568			0.32- 60.32	49.36
20 1,3-Butadiene					CAS #: 106-99-0		
2.038	2.038 (0.348)	54	6034	0.40000	0.5475	80.00- 120.00	100.00
2.038	2.038 (0.348)	39	6637			72.94- 132.94	109.99
33 Freon 11					CAS #: 75-69-4		
2.892	2.892 (0.494)	101	10097	0.40000	0.4436	80.00- 120.00	100.00(a)
2.878	2.892 (0.491)	103	6410			36.55- 96.55	63.48

					AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
RT	EXP RT (REL RT)	MASS	RESPONSE					
43 Freon 113						CAS #: 76-13-1		
3.591	3.591 (0.613)	151	7019	0.40000		0.4539	80.00- 120.00	100.00(a)
3.591	3.591 (0.613)	153	4458				34.03- 94.03	63.51
3.591	3.591 (0.613)	101	8174				89.72- 149.72	116.46
44 1,1-Dichloroethene						CAS #: 75-35-4		
3.619	3.619 (0.618)	96	4237	0.40000		0.4719	80.00- 120.00	100.00(a)
3.619	3.619 (0.618)	98	2307				32.85- 92.85	54.45
3.619	3.619 (0.618)	61	6751				165.91- 225.91	159.33
64 trans-1,2-Dichloroethene						CAS #: 156-60-5		
4.543	4.543 (0.775)	98	2224	0.40000		0.4255	80.00- 120.00	100.00(a)
4.543	4.543 (0.775)	61	6502				236.85- 296.85	292.36
4.543	4.543 (0.775)	96	3663				126.72- 186.72	164.70
66 Acrylonitrile						CAS #: 107-13-1		
4.655	4.655 (0.795)	52	3529	0.40000		0.4826	80.00- 120.00	100.00(a)
4.655	4.655 (0.795)	53	3577				88.92- 148.92	101.36
67 Hexane						CAS #: 110-54-3		
4.753	4.753 (0.811)	57	6550	0.40000		0.4306	80.00- 120.00	100.00(a)
4.753	4.753 (0.811)	43	4298				36.74- 96.74	65.62
4.753	4.753 (0.811)	86	902				0.00- 43.22	13.77
71 1,1-Dichloroethane						CAS #: 75-34-3		
5.033	5.047 (0.859)	63	6907	0.40000		0.4172	80.00- 120.00	100.00(a)
5.047	5.047 (0.861)	65	2355				0.56- 60.56	34.10
85 cis-1,2-Dichloroethene						CAS #: 156-59-2		
5.620	5.620 (0.959)	98	2459	0.40000		0.4347	80.00- 120.00	100.00(a)
5.620	5.620 (0.959)	96	4165				121.91- 181.91	169.38
5.620	5.620 (0.959)	61	8283				313.72- 373.72	336.84
* 90 Bromochloromethane						CAS #: 74-97-5		
5.858	5.858 (1.000)	130	246794	25.0000			80.00- 120.00	100.00
5.858	5.858 (1.000)	128	191795				47.29- 107.29	77.71
5.858	5.858 (1.000)	49	383630				122.83- 182.83	155.45
89 Tetrahydrofuran						CAS #: 109-99-9		
5.858	5.858 (1.000)	42	6305	0.40000		0.4696	80.00- 120.00	100.00(a)
5.858	5.858 (1.000)	71	1345				0.09- 60.09	21.33
5.872	5.858 (1.002)	72	1953				2.13- 62.13	30.98
92 Chloroform						CAS #: 67-66-3		
5.914	5.914 (1.010)	83	7444	0.40000		0.4110	80.00- 120.00	100.00(a)
5.914	5.914 (1.010)	85	4903				34.29- 94.29	65.87

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
94 Cyclohexane					CAS #: 110-82-7		
6.026	6.026 (1.029)	84	4919	0.40000	0.4392	80.00- 120.00	100.00(a)
6.026	6.026 (1.029)	56	7361			116.85- 176.85	149.64
6.026	6.026 (1.029)	41	4765			57.77- 117.77	96.87
96 1,1,1-Trichloroethane					CAS #: 71-55-6		
6.040	6.054 (1.031)	97	8020	0.40000	0.4117	80.00- 120.00	100.00(a)
6.040	6.054 (1.031)	99	5299			34.55- 94.55	66.07
97 Carbon Tetrachloride					CAS #: 56-23-5		
6.152	6.166 (1.050)	119	7275	0.40000	0.3956	80.00- 120.00	100.00(a)
6.152	6.166 (1.050)	117	7730			74.20- 134.20	106.25
101 2,2,4-Trimethylpentane					CAS #: 540-84-1		
6.348	6.348 (1.084)	57	21345	0.40000	0.4300	80.00- 120.00	100.00(a)
6.348	6.348 (1.084)	56	8022			1.14- 61.14	37.58
6.348	6.348 (1.084)	41	6240			0.00- 59.12	29.23
102 Benzene					CAS #: 71-43-2		
6.376	6.376 (0.946)	78	10594	0.40000	0.4395	80.00- 120.00	100.00(a)
6.376	6.376 (0.946)	77	2675			0.00- 53.48	25.25
$ 104 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
6.390	6.404 (1.091)	65	350451	25.0000	25.468	80.00- 120.00	100.00
6.390	6.404 (1.091)	67	169698			20.51- 80.51	48.42
106 1,2-Dichloroethane					CAS #: 107-06-2		
6.460	6.474 (0.958)	62	6197	0.40000	0.4344	80.00- 120.00	100.00(a)
6.460	6.474 (0.958)	64	1969			1.41- 61.41	31.77
107 Heptane					CAS #: 142-82-5		
6.516	6.516 (0.966)	71	3841	0.40000	0.4227	80.00- 120.00	100.00(a)
6.502	6.516 (0.964)	43	8560			146.45- 206.45	222.86
6.502	6.516 (0.964)	57	4659			90.20- 150.20	121.30
* 108 1,4-Difluorobenzene					CAS #: 540-36-3		
6.743	6.750 (1.000)	114	891224	25.0000		80.00- 120.00	100.00
6.743	6.750 (1.000)	88	133521			0.00- 45.09	14.98
111 Trichloroethene					CAS #: 79-01-6		
6.943	6.943 (1.030)	95	5124	0.40000	0.4368	80.00- 120.00	100.00(a)
6.943	6.950 (1.030)	130	5526			79.68- 139.68	107.85
6.943	6.943 (1.030)	97	2991			34.74- 94.74	58.37
114 1,2-Dichloropropane					CAS #: 78-87-5		
7.187	7.187 (1.066)	63	5139	0.40000	0.4562	80.00- 120.00	100.00(a)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
114 1,2-Dichloropropane (continued)							
7.187	7.187 (1.066)	62	3580			40.55- 100.55	69.66
7.187	7.187 (1.066)	41	4456			36.07- 96.07	86.71
118 Dibromomethane					CAS #: 74-95-3		
7.294	7.294 (0.792)	174	4734	0.40000	0.4292	80.00- 120.00	100.00(a)
7.294	7.294 (0.792)	93	4745			66.88- 126.88	100.23
7.294	7.294 (0.792)	95	3886			49.90- 109.90	82.09
122 Bromodichloromethane					CAS #: 75-27-4		
7.402	7.409 (1.098)	83	8472	0.40000	0.4290	80.00- 120.00	100.00(a)
7.402	7.409 (1.098)	85	5058			33.85- 93.85	59.70
126 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.781	7.781 (1.154)	75	6818	0.40000	0.4400	80.00- 120.00	100.00(a)
7.781	7.781 (1.154)	77	2651			1.50- 61.50	38.88
7.774	7.781 (1.153)	39	5503			43.12- 103.12	80.71
127 Methylcyclohexane					CAS #: 108-87-2		
7.043	7.051 (1.045)	83	6520	0.40000	0.4330	80.00- 120.00	100.00(a)
7.051	7.051 (1.046)	98	2941			17.10- 77.10	45.11
7.051	7.051 (1.046)	55	8176			71.11- 131.11	125.40
131 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.889	7.889 (1.170)	58	4747	0.40000	0.4454	80.00- 120.00	100.00(a)
7.889	7.889 (1.170)	43	14237			247.84- 307.84	299.92
7.889	7.889 (1.170)	85	2062			8.73- 68.73	43.44
$ 134 Toluene-d8					CAS #: 2037-26-5		
7.968	7.967 (1.182)	98	902192	25.0000	25.023	80.00- 120.00	100.00
7.968	7.967 (1.182)	70	105605			0.00- 42.00	11.71
7.968	7.967 (1.182)	100	611161			37.14- 97.14	67.74
137 Toluene					CAS #: 108-88-3		
8.025	8.025 (1.190)	91	13936	0.40000	0.4324	80.00- 120.00	100.00(a)
8.025	8.025 (1.190)	92	8028			28.13- 88.13	57.61
136 Octane					CAS #: 111-65-9		
8.003	8.010 (1.187)	57	5019	0.40000	0.4476	80.00- 120.00	100.00(a)
8.003	8.010 (1.187)	85	4657			67.77- 127.77	92.79
8.003	8.010 (1.187)	43	12038			225.27- 285.27	239.85
139 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
8.254	8.254 (0.897)	75	7136	0.40000	0.4540	80.00- 120.00	100.00(a)
8.254	8.254 (0.897)	77	2542			1.93- 61.93	35.62
8.254	8.254 (0.897)	39	4829			38.37- 98.37	67.67

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
141 1,1,2-Trichloroethane					CAS #: 79-00-5		
8.412	8.419 (0.914)	97	4765	0.40000	0.4311	80.00- 120.00	100.00(a)
8.412	8.419 (0.914)	99	2943			31.66- 91.66	61.76
8.419	8.419 (0.914)	83	4150			55.24- 115.24	87.09
142 Tetrachloroethene					CAS #: 127-18-4		
8.462	8.462 (0.919)	166	7105	0.40000	0.4360	80.00- 120.00	100.00(a)
8.455	8.462 (0.918)	129	5279			48.51- 108.51	74.30
8.462	8.462 (0.919)	131	5055			45.64- 105.64	71.15
144 1,3-Dichloropropane					CAS #: 142-28-9		
8.569	8.569 (1.271)	76	8003	0.40000	0.4693	80.00- 120.00	100.00(a)
8.569	8.569 (1.271)	41	10093			96.83- 156.83	126.12
8.569	8.569 (1.271)	78	2619			2.46- 62.46	32.73
146 Dibromochloromethane					CAS #: 124-48-1		
8.734	8.734 (0.949)	129	8946	0.40000	0.4123	80.00- 120.00	100.00(a)
8.734	8.734 (0.949)	127	7461			47.05- 107.05	83.40
148 1,2-Dibromoethane (EDB)					CAS #: 106-93-4		
8.856	8.856 (0.962)	107	8102	0.40000	0.4412	80.00- 120.00	100.00(a)
8.856	8.856 (0.962)	109	6950			64.74- 124.74	85.78
* 153 Chlorobenzene-d5					CAS #: 3114-55-4		
9.207	9.207 (1.000)	117	840141	25.0000		80.00- 120.00	100.00
9.207	9.207 (1.000)	82	451959			23.62- 83.62	53.80
154 Chlorobenzene					CAS #: 108-90-7		
9.235	9.235 (1.003)	112	11580	0.40000	0.4188	80.00- 120.00	100.00(a)
9.228	9.235 (1.002)	114	4021			2.19- 62.19	34.72
9.207	9.228 (1.000)	77	15357			23.66- 83.66	132.62
155 Ethyl Benzene					CAS #: 100-41-4		
9.278	9.278 (1.008)	106	5749	0.40000	0.4238	80.00- 120.00	100.00(a)
9.271	9.278 (1.007)	91	18238			282.43- 342.43	317.24
158 m,p-Xylene					CAS #: 108-38-3		
9.371	9.371 (1.018)	106	7089	0.40000	0.4234	80.00- 120.00	100.00(a)
9.371	9.371 (1.018)	91	14473			169.66- 229.66	204.16
164 o-Xylene					CAS #: 95-47-6		
9.715	9.722 (1.055)	106	6704	0.40000	0.4231	80.00- 120.00	100.00(a)
9.715	9.722 (1.055)	91	15376			180.55- 240.55	229.36
165 Styrene					CAS #: 100-42-5		
9.737	9.737 (1.058)	104	12366	0.40000	0.4362	80.00- 120.00	100.00(a)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
165 Styrene (continued)							
9.737	9.737 (1.058)	78	6377			18.65- 78.65	51.57
167 Bromoform					CAS #: 75-25-2		
9.944	9.944 (1.080)	173	9050	0.40000	0.4241	80.00- 120.00	100.00(a)
9.944	9.944 (1.080)	171	4395			21.64- 81.64	48.56
168 Cumene					CAS #: 98-82-8		
10.009	10.009 (1.087)	105	21686	0.40000	0.4249	80.00- 120.00	100.00(a)
10.009	10.009 (1.087)	120	5972			0.00- 57.04	27.54
10.002	10.009 (1.086)	51	3344			0.00- 41.95	15.42
$ 170 4-Bromofluorobenzene					CAS #: 460-00-4		
10.195	10.202 (1.107)	174	548439	25.0000	24.762	80.00- 120.00	100.00
10.195	10.195 (1.107)	95	668797			92.25- 152.25	121.95
10.195	10.202 (1.107)	176	505405			63.07- 123.07	92.15
175 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
10.317	10.317 (1.121)	83	10531	0.40000	0.4298	80.00- 120.00	100.00(a)
10.317	10.317 (1.121)	85	6893			34.44- 94.44	65.45
178 Propylbenzene					CAS #: 103-65-1		
10.353	10.360 (1.124)	120	6123	0.40000	0.4245	80.00- 120.00	100.00(a)
10.353	10.360 (1.124)	91	25398	0.40000	0.4243	385.23- 445.23	414.80
10.346	10.360 (1.124)	105	1143			0.00- 46.02	18.67
179 1,2,3-Trichloropropane					CAS #: 96-18-4		
10.381	10.389 (1.128)	110	3533	0.40000	0.4390	80.00- 120.00	100.00(a)
10.381	10.381 (1.128)	75	10281			301.57- 361.57	291.00
10.389	10.381 (1.128)	61	3535			54.32- 114.32	100.06
183 4-Ethyltoluene					CAS #: 622-96-8		
10.453	10.453 (1.135)	120	6674	0.40000	0.4276	80.00- 120.00	100.00(a)
10.453	10.453 (1.135)	105	21829			295.29- 355.29	327.08
184 2-Chlorotoluene					CAS #: 95-49-8		
10.482	10.482 (1.138)	126	5465	0.40000	0.4251	80.00- 120.00	100.00(a)
10.482	10.482 (1.138)	91	20817			325.01- 385.01	380.91
10.482	10.482 (1.138)	65	2557			19.90- 79.90	46.79
185 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
10.503	10.503 (1.141)	120	9002	0.40000	0.4184	80.00- 120.00	100.00(a)
10.503	10.503 (1.141)	105	19334			176.14- 236.14	214.77
188 alpha Methyl Styrene					CAS #: 98-83-9		
10.704	10.704 (1.163)	118	8766	0.40000	0.4075	80.00- 120.00	100.00(a)

				AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
RT	EXP RT (REL RT)	MASS	RESPONSE				
188 alpha Methyl Styrene (continued)							
10.704	10.704 (1.163)	103	5206			26.69- 86.69	59.39
190 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
10.833	10.833 (1.177)	105	17902	0.40000	0.4219	80.00- 120.00	100.00(a)
10.833	10.833 (1.177)	120	8484			17.12- 77.12	47.39
192 sec-Butylbenzene					CAS #: 135-98-8		
10.969	10.969 (1.191)	134	5807	0.40000	0.4318	80.00- 120.00	100.00(a)
10.969	10.969 (1.191)	105	26744			438.96- 498.96	460.55
10.969	10.969 (1.191)	91	5500			44.37- 104.37	94.71
194 p-Cymene					CAS #: 99-87-6		
11.083	11.083 (1.204)	119	24041	0.40000	0.4287	80.00- 120.00	100.00(a)
11.083	11.083 (1.204)	134	6277			0.00- 56.91	26.11
11.083	11.083 (1.204)	91	6003			0.00- 53.86	24.97
195 1,3-Dichlorobenzene					CAS #: 541-73-1		
11.126	11.134 (1.208)	146	12375	0.40000	0.4196	80.00- 120.00	100.00(a)
11.134	11.134 (1.209)	148	7914			33.78- 93.78	63.95
11.126	11.134 (1.208)	111	5350			11.40- 71.40	43.23
196 1,4-Dichlorobenzene					CAS #: 106-46-7		
11.212	11.212 (1.218)	146	13263	0.40000	0.4292	80.00- 120.00	100.00(a)
11.212	11.212 (1.218)	148	8658			33.73- 93.73	65.28
11.205	11.212 (1.217)	111	5158			9.40- 69.40	38.89
199 alpha-Chlorotoluene					CAS #: 100-44-7		
11.327	11.334 (1.230)	91	17776	0.40000	0.4230	80.00- 120.00	100.00(a)
11.327	11.334 (1.230)	126	3894			0.00- 52.58	21.91
202 Butylbenzene					CAS #: 104-51-8		
11.434	11.434 (1.242)	134	6302	0.40000	0.4292	80.00- 120.00	100.00(a)
11.434	11.434 (1.242)	91	22552			322.91- 382.91	357.85
11.434	11.434 (1.242)	92	11276			155.43- 215.43	178.93
204 1,2-Dichlorobenzene					CAS #: 95-50-1		
11.549	11.549 (1.254)	146	12165	0.40000	0.4230	80.00- 120.00	100.00(a)
11.549	11.549 (1.254)	148	7676			33.66- 93.66	63.10
11.549	11.549 (1.254)	111	5657			12.36- 72.36	46.50
207 Dodecane					CAS #: 112-40-3		
12.358	12.358 (1.342)	57	17582	0.49440	0.5266	80.00- 120.00	100.00(a)
12.358	12.358 (1.342)	43	15437			56.62- 116.62	87.80

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd3.i
Lab File ID: 3081203.d
Lab Smp Id: ICAL Level #3
Analysis Type: VOA
Quant Type: ISTD
Operator: LD
Method File: /chem/msd3.i/12AUG21.b/321q0812a.m
Misc Info: 0.4ppbv(5.0ppbv)

Calibration Date: 12-AUG-2021
Calibration Time: 19:05
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	229903	137942	321864	246794	7.35
108 1,4-Difluorobenze	822152	493291	1151013	891224	8.40
153 Chlorobenzene-d5	775771	465463	1086079	840141	8.30

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.86	5.53	6.19	5.86	0.00
108 1,4-Difluorobenze	6.75	6.42	7.08	6.74	-0.11
153 Chlorobenzene-d5	9.21	8.88	9.54	9.21	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msd3.i/12AUG21.b/3081203.d

Page 1

Date : 12-AUG-2021 16:48

Client ID:

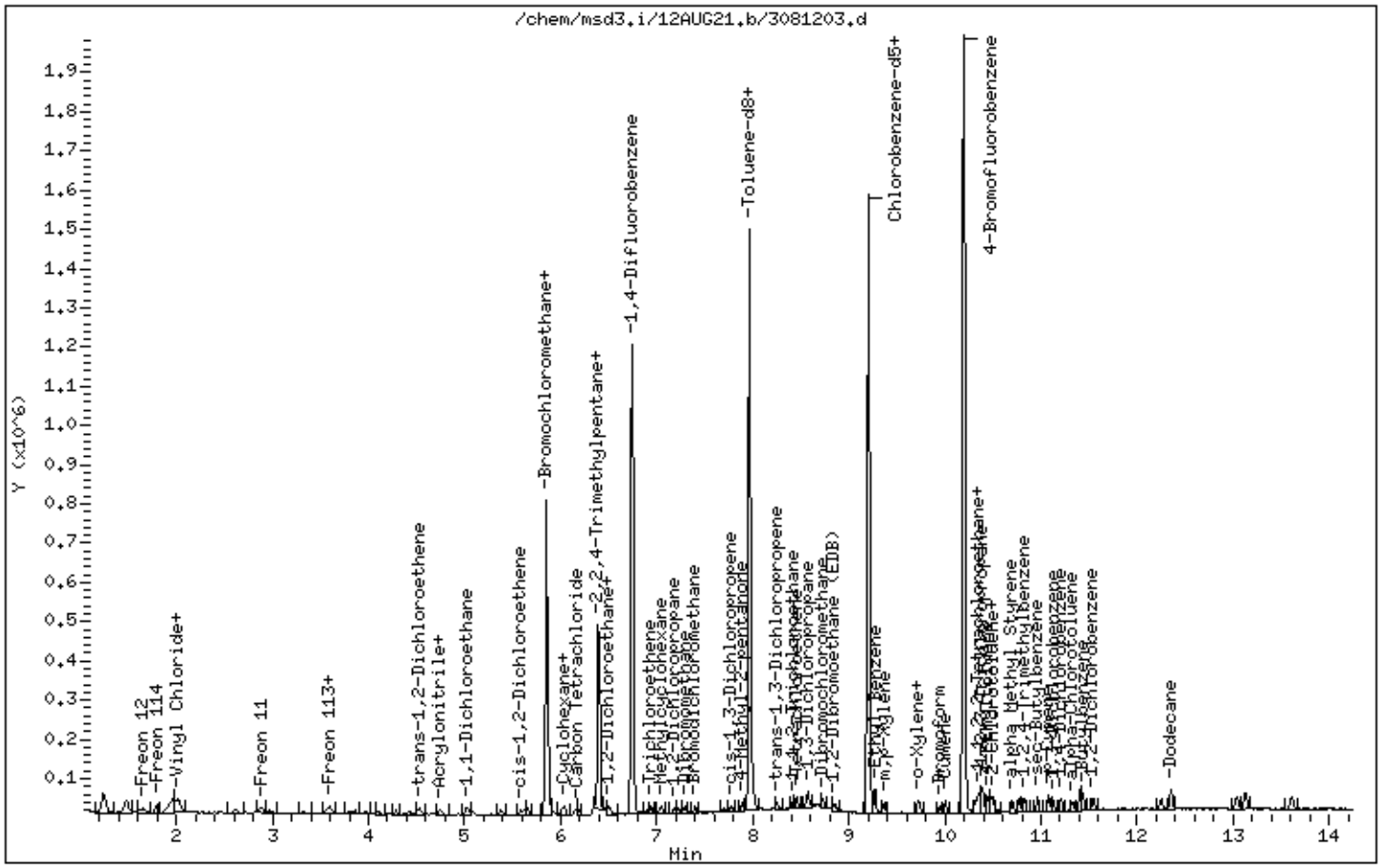
Instrument: msd3.i

Sample Info: 16ml 3018-2220

Operator: LD

Column phase: RTX-624

Column diameter: 0.25



US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msd3.i/12AUG21.b/3081212.d
Lab Smp Id: ICAL Level #3
Inj Date : 12-AUG-2021 20:58
Operator : LD Inst ID: msd3.i
Smp Info : 16ml #3018-2128
Misc Info : 0.4ppbv(5.0ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msd3.i/12AUG21.b/321q0812a.m
Meth Date : 13-Aug-2021 12:38 ugdc Quant Type: ISTD
Cal Date : 12-AUG-2021 20:58 Cal File: 3081212.d
Als bottle: 2 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT20spICAL_lv3.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 90 Bromochloromethane					CAS #: 74-97-5		
5.858	5.858 (1.000)	130	213097	25.0000		80.00- 120.00	100.00
5.858	5.858 (1.000)	128	168237			47.29- 107.29	78.95
5.858	5.858 (1.000)	49	319961			122.83- 182.83	150.15
* 108 1,4-Difluorobenzene					CAS #: 540-36-3		
6.750	6.750 (1.000)	114	767939	25.0000		80.00- 120.00	100.00
6.750	6.750 (1.000)	88	116088			0.00- 45.09	15.12
* 153 Chlorobenzene-d5					CAS #: 3114-55-4		
9.214	9.207 (1.000)	117	713825	25.0000		80.00- 120.00	100.00
9.214	9.207 (1.000)	82	383774			23.62- 83.62	53.76
157 1,1,1,2-Tetrachloroethane					CAS #: 630-20-6		
9.300	9.300 (1.009)	131	5255	0.40000	0.4070	80.00- 120.00	100.00(a)
9.214	9.207 (1.000)	117	713825			38.22- 98.22	13583.73
9.300	9.293 (1.009)	95	2215			7.54- 67.54	42.15

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd3.i
Lab File ID: 3081212.d
Lab Smp Id: ICAL Level #3
Analysis Type: VOA
Quant Type: ISTD
Operator: LD
Method File: /chem/msd3.i/12AUG21.b/321q0812a.m
Misc Info: 0.4ppbv(5.0ppbv)

Calibration Date: 12-AUG-2021
Calibration Time: 19:05
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	229903	137942	321864	213097	-7.31
108 1,4-Difluorobenze	822152	493291	1151013	767939	-6.59
153 Chlorobenzene-d5	775771	465463	1086079	713825	-7.99

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.86	5.53	6.19	5.86	-0.00
108 1,4-Difluorobenze	6.75	6.42	7.08	6.75	-0.00
153 Chlorobenzene-d5	9.21	8.88	9.54	9.21	0.08

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msd3.i/12AUG21.b/3081212.d

Date : 12-AUG-2021 20:58

Client ID:

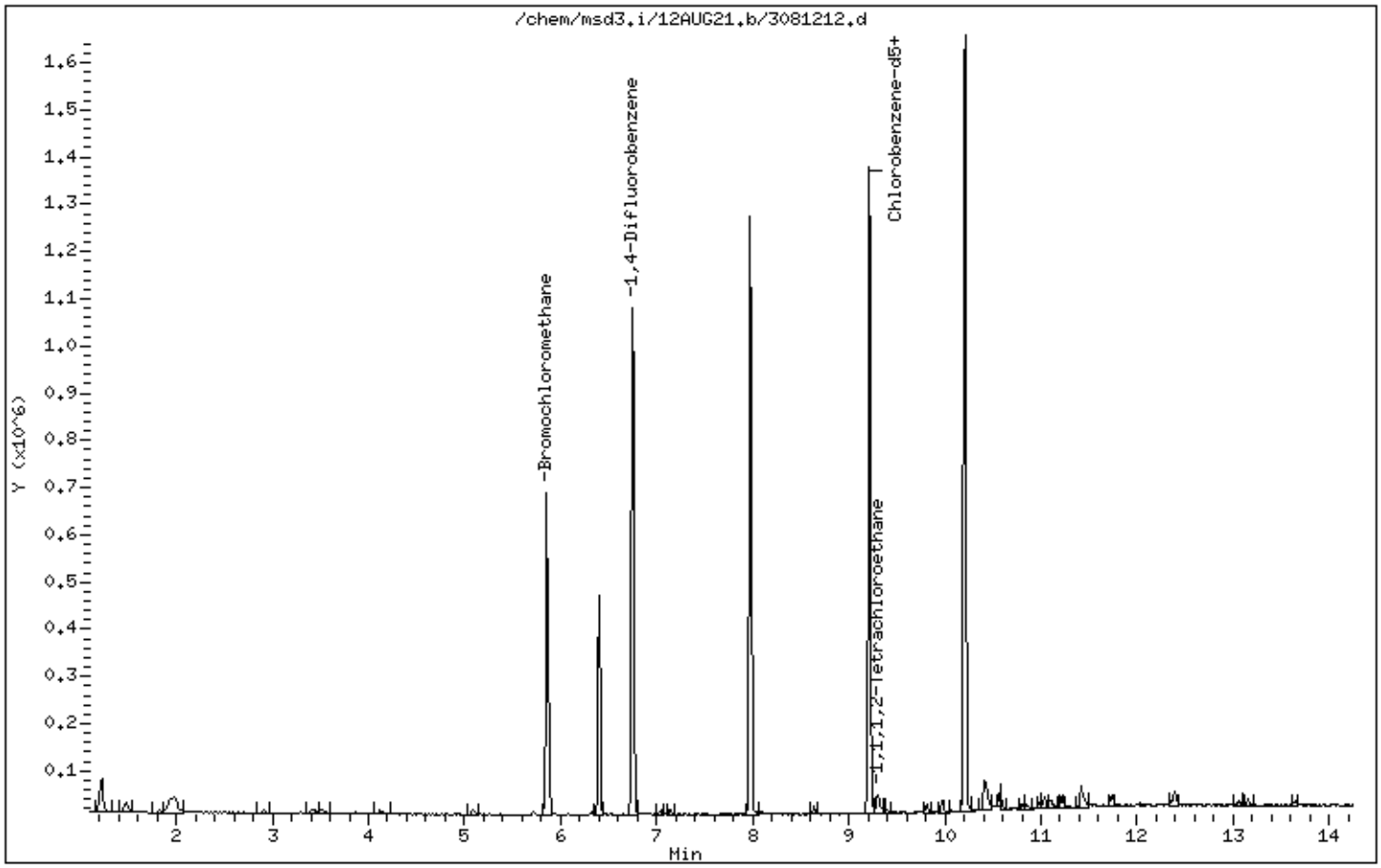
Instrument: msd3.i

Sample Info: 16ml #3018-2128

Operator: LD

Column phase: RTX-624

Column diameter: 0.25



US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msd3.i/12AUG21.b/3081204.d
Lab Smp Id: ICAL Level #5
Inj Date : 12-AUG-2021 17:15
Operator : LD Inst ID: msd3.i
Smp Info : 32ml 3018-2220
Misc Info : 0.8ppbv(5.0ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msd3.i/12AUG21.b/321q0812a.m
Meth Date : 13-Aug-2021 08:08 ugdc Quant Type: ISTD
Cal Date : 12-AUG-2021 17:15 Cal File: 3081204.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT20_Level5.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
4 Freon 134a					CAS #: 811-97-2		
1.563	1.577 (0.267)	83	5645	0.80000	0.8771	80.00- 120.00	100.00
1.563	1.577 (0.267)	69	4836			50.75- 110.75	85.67
1.577	1.577 (0.269)	51	1097			0.00- 49.76	19.43
8 Freon 12					CAS #: 75-71-8		
1.647	1.661 (0.281)	85	14120	0.80000	0.8205	80.00- 120.00	100.00
1.647	1.661 (0.281)	87	4575			2.35- 62.35	32.40
9 Chlorodifluoromethane					CAS #: 75-45-6		
1.675	1.689 (0.286)	67	2289	0.80000	0.9935	80.00- 120.00	100.00
1.688	1.689 (0.288)	51	10651			710.68- 770.68	465.31
10 Freon 114					CAS #: 76-14-2		
1.786	1.800 (0.305)	135	10454	0.80000	0.7840	80.00- 120.00	100.00(a)
1.786	1.800 (0.305)	137	3616			2.06- 62.06	34.59
12 Isobutane					CAS #: 75-28-5		
1.800	1.800 (0.307)	43	11949	0.80000	0.8492	80.00- 120.00	100.00
1.800	1.800 (0.307)	42	3877			2.70- 62.70	32.45

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
12 Isobutane (continued)							
1.814	1.800 (0.310)	58	745			0.00- 33.44	6.23
19 Vinyl Chloride					CAS #: 75-01-4		
2.010	2.010 (0.343)	62	7388	0.80000	0.8160	80.00- 120.00	100.00
2.010	2.010 (0.343)	64	3103			0.32- 60.32	42.00
20 1,3-Butadiene					CAS #: 106-99-0		
2.038	2.038 (0.348)	54	8482	0.80000	0.8620	80.00- 120.00	100.00
2.038	2.038 (0.348)	39	8257			72.94- 132.94	97.35
32 Vinyl Bromide					CAS #: 593-60-2		
2.836	2.836 (0.484)	106	5814	0.80000	0.8733	80.00- 120.00	100.00
2.836	2.836 (0.484)	108	5230			63.01- 123.01	89.96
33 Freon 11					CAS #: 75-69-4		
2.892	2.892 (0.494)	101	15501	0.80000	0.7957	80.00- 120.00	100.00(a)
2.892	2.892 (0.494)	103	10146			36.55- 96.55	65.45
34 Dichlorofluoromethane					CAS #: 75-43-4		
2.892	2.906 (0.494)	67	12587	0.80000	0.8555	80.00- 120.00	100.00
2.892	2.906 (0.494)	69	4606			1.82- 61.82	36.59
35 Pentane					CAS #: 109-66-0		
2.976	2.976 (0.508)	43	15306	0.80000	0.9241	80.00- 120.00	100.00
2.976	2.976 (0.508)	57	3204			0.00- 45.52	20.93
2.990	2.976 (0.510)	72	1228			0.00- 38.25	8.02
38 Ethyl Ether					CAS #: 60-29-7		
3.326	3.326 (0.568)	74	3002	0.80000	0.9042	80.00- 120.00	100.00
3.326	3.326 (0.568)	59	4869			143.51- 203.51	162.19
3.326	3.326 (0.568)	45	8370			143.53- 203.53	278.81
43 Freon 113					CAS #: 76-13-1		
3.591	3.591 (0.613)	151	10190	0.80000	0.7782	80.00- 120.00	100.00(a)
3.591	3.591 (0.613)	153	6881			34.03- 94.03	67.53
3.577	3.591 (0.611)	101	12726			89.72- 149.72	124.89
44 1,1-Dichloroethene					CAS #: 75-35-4		
3.619	3.619 (0.618)	96	5999	0.80000	0.7856	80.00- 120.00	100.00(a)
3.619	3.619 (0.618)	98	3771			32.85- 92.85	62.86
3.619	3.619 (0.618)	61	11109			165.91- 225.91	185.18
54 3-Chloropropene					CAS #: 107-05-1		
4.109	4.109 (0.701)	76	2960	0.80000	0.9134	80.00- 120.00	100.00
4.109	4.109 (0.701)	41	9005			344.92- 404.92	304.22

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
63 Methyl tert-butyl ether					CAS #: 1634-04-4		
4.529	4.515 (0.773)	73	17113	0.80000	0.8623	80.00- 120.00	100.00
4.529	4.515 (0.773)	57	5089			0.00- 58.27	29.74
4.529	4.515 (0.773)	41	4501			0.00- 58.78	26.30
64 trans-1,2-Dichloroethene					CAS #: 156-60-5		
4.543	4.543 (0.775)	98	3654	0.80000	0.8097	80.00- 120.00	100.00
4.543	4.543 (0.775)	61	10084			236.85- 296.85	275.97
4.543	4.543 (0.775)	96	6594			126.72- 186.72	180.46
66 Acrylonitrile					CAS #: 107-13-1		
4.655	4.655 (0.795)	52	5973	0.80000	0.8951	80.00- 120.00	100.00
4.655	4.655 (0.795)	53	6028			88.92- 148.92	100.92
67 Hexane					CAS #: 110-54-3		
4.753	4.753 (0.811)	57	10860	0.80000	0.8210	80.00- 120.00	100.00
4.753	4.753 (0.811)	43	7144			36.74- 96.74	65.78
4.767	4.753 (0.814)	86	1431			0.00- 43.22	13.18
71 1,1-Dichloroethane					CAS #: 75-34-3		
5.047	5.047 (0.861)	63	11212	0.80000	0.7918	80.00- 120.00	100.00(a)
5.047	5.047 (0.861)	65	3684			0.56- 60.56	32.86
84 2,2-Dichloropropane					CAS #: 594-20-7		
5.592	5.592 (0.955)	77	10797	0.80000	0.8329	80.00- 120.00	100.00
5.592	5.592 (0.955)	79	3755			2.43- 62.43	34.78
5.592	5.592 (0.955)	97	2510			0.00- 53.03	23.25
85 cis-1,2-Dichloroethene					CAS #: 156-59-2		
5.634	5.620 (0.962)	98	3949	0.80000	0.8089	80.00- 120.00	100.00
5.620	5.620 (0.959)	96	6111			121.91- 181.91	154.75
5.620	5.620 (0.959)	61	11308			313.72- 373.72	286.35
* 90 Bromochloromethane					CAS #: 74-97-5		
5.858	5.858 (1.000)	130	211802	25.0000		80.00- 120.00	100.00
5.858	5.858 (1.000)	128	165667			47.29- 107.29	78.22
5.858	5.858 (1.000)	49	325377			122.83- 182.83	153.62
89 Tetrahydrofuran					CAS #: 109-99-9		
5.872	5.858 (1.002)	42	8894	0.80000	0.7811	80.00- 120.00	100.00(a)
5.872	5.858 (1.002)	71	2425			0.09- 60.09	27.27
5.872	5.858 (1.002)	72	2986			2.13- 62.13	33.57
92 Chloroform					CAS #: 67-66-3		
5.914	5.914 (1.010)	83	12439	0.80000	0.8002	80.00- 120.00	100.00
5.914	5.914 (1.010)	85	7925			34.29- 94.29	63.71

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
94 Cyclohexane					CAS #: 110-82-7		
6.026	6.026 (1.029)	84	7981	0.80000	0.8200	80.00- 120.00	100.00
6.026	6.026 (1.029)	56	11723			116.85- 176.85	146.89
6.026	6.026 (1.029)	41	6278			57.77- 117.77	78.66
96 1,1,1-Trichloroethane					CAS #: 71-55-6		
6.054	6.054 (1.033)	97	13438	0.80000	0.8028	80.00- 120.00	100.00
6.054	6.054 (1.033)	99	8248			34.55- 94.55	61.38
97 Carbon Tetrachloride					CAS #: 56-23-5		
6.166	6.166 (1.053)	119	11983	0.80000	0.7724	80.00- 120.00	100.00(a)
6.166	6.166 (1.053)	117	12642			74.20- 134.20	105.50
99 1,1-Dichloropropene					CAS #: 563-58-6		
6.194	6.194 (0.918)	110	3469	0.80000	0.8530	80.00- 120.00	100.00
6.194	6.194 (0.918)	75	8848			229.39- 289.39	255.06
101 2,2,4-Trimethylpentane					CAS #: 540-84-1		
6.362	6.348 (1.086)	57	34832	0.80000	0.8116	80.00- 120.00	100.00
6.348	6.348 (1.084)	56	11848			1.14- 61.14	34.01
6.348	6.348 (1.084)	41	10427			0.00- 59.12	29.94
102 Benzene					CAS #: 71-43-2		
6.390	6.376 (0.947)	78	17973	0.80000	0.8523	80.00- 120.00	100.00
6.390	6.376 (0.947)	77	4128			0.00- 53.48	22.97
$ 104 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
6.404	6.404 (1.093)	65	294778	25.0000	24.971	80.00- 120.00	100.00
6.404	6.404 (1.093)	67	144187			20.51- 80.51	48.91
106 1,2-Dichloroethane					CAS #: 107-06-2		
6.474	6.474 (0.959)	62	10182	0.80000	0.8285	80.00- 120.00	100.00
6.474	6.474 (0.959)	64	3002			1.41- 61.41	29.48
107 Heptane					CAS #: 142-82-5		
6.516	6.516 (0.965)	71	6423	0.80000	0.8232	80.00- 120.00	100.00
6.516	6.516 (0.965)	43	13041			146.45- 206.45	203.04
6.516	6.516 (0.965)	57	6932			90.20- 150.20	107.92
* 108 1,4-Difluorobenzene					CAS #: 540-36-3		
6.750	6.750 (1.000)	114	754232	25.0000		80.00- 120.00	100.00
6.750	6.750 (1.000)	88	114980			0.00- 45.09	15.24
111 Trichloroethene					CAS #: 79-01-6		
6.950	6.943 (1.030)	95	8231	0.80000	0.8192	80.00- 120.00	100.00
6.950	6.950 (1.030)	130	8310			79.68- 139.68	100.96

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
111 Trichloroethene (continued)							
6.950	6.943 (1.030)	97	5310			34.74- 94.74	64.51
114 1,2-Dichloropropane					CAS #: 78-87-5		
7.187	7.187 (1.065)	63	7224	0.80000	0.7714	80.00- 120.00	100.00(a)
7.187	7.187 (1.065)	62	5040			40.55- 100.55	69.77
7.187	7.187 (1.065)	41	5361			36.07- 96.07	74.21
116 Methyl Methacrylate					CAS #: 80-62-6		
7.237	7.230 (0.786)	69	6475	0.80000	0.8367	80.00- 120.00	100.00
7.230	7.230 (0.785)	41	11654			160.67- 220.67	179.98
7.230	7.230 (0.785)	100	2653			11.33- 71.33	40.97
117 1,4-Dioxane					CAS #: 123-91-1		
7.280	7.273 (1.079)	88	4789	0.80000	0.8530	80.00- 120.00	100.00
7.273	7.273 (1.077)	58	4622			56.19- 116.19	96.51
7.280	7.273 (1.079)	57	1755			0.00- 59.32	36.65
118 Dibromomethane					CAS #: 74-95-3		
7.301	7.294 (0.793)	174	7650	0.80000	0.8118	80.00- 120.00	100.00
7.294	7.294 (0.792)	93	8091			66.88- 126.88	105.76
7.294	7.294 (0.792)	95	6177			49.90- 109.90	80.75
122 Bromodichloromethane					CAS #: 75-27-4		
7.409	7.409 (1.098)	83	13300	0.80000	0.7969	80.00- 120.00	100.00(a)
7.409	7.409 (1.098)	85	8711			33.85- 93.85	65.50
126 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.781	7.781 (1.153)	75	9616	0.80000	0.7543	80.00- 120.00	100.00(a)
7.788	7.781 (1.154)	77	3615			1.50- 61.50	37.59
7.781	7.781 (1.153)	39	7929			43.12- 103.12	82.46
127 Methylcyclohexane					CAS #: 108-87-2		
7.058	7.051 (1.046)	83	10135	0.80000	0.7968	80.00- 120.00	100.00(a)
7.051	7.051 (1.045)	98	4925			17.10- 77.10	48.59
7.058	7.051 (1.046)	55	10791			71.11- 131.11	106.47
131 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.889	7.889 (1.169)	58	7282	0.80000	0.8048	80.00- 120.00	100.00
7.889	7.889 (1.169)	43	20984			247.84- 307.84	288.16
7.889	7.889 (1.169)	85	2937			8.73- 68.73	40.33
$ 134 Toluene-d8					CAS #: 2037-26-5		
7.967	7.967 (1.180)	98	761584	25.0000	24.970	80.00- 120.00	100.00
7.967	7.967 (1.180)	70	88505			0.00- 42.00	11.62
7.967	7.967 (1.180)	100	511619			37.14- 97.14	67.18

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
137 Toluene					CAS #: 108-88-3		
8.025	8.025 (1.189)	91	21538	0.80000	0.7931	80.00- 120.00	100.00(a)
8.025	8.025 (1.189)	92	12666			28.13- 88.13	58.81
136 Octane					CAS #: 111-65-9		
8.010	8.010 (1.187)	57	7693	0.80000	0.8071	80.00- 120.00	100.00
8.010	8.010 (1.187)	85	6624			67.77- 127.77	86.10
8.010	8.010 (1.187)	43	18715			225.27- 285.27	243.27
139 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
8.254	8.254 (0.897)	75	9646	0.80000	0.7474	80.00- 120.00	100.00(a)
8.254	8.254 (0.897)	77	3881			1.93- 61.93	40.23
8.254	8.254 (0.897)	39	6776			38.37- 98.37	70.25
141 1,1,2-Trichloroethane					CAS #: 79-00-5		
8.419	8.419 (0.914)	97	7674	0.80000	0.8123	80.00- 120.00	100.00
8.419	8.419 (0.914)	99	4767			31.66- 91.66	62.12
8.419	8.419 (0.914)	83	6518			55.24- 115.24	84.94
142 Tetrachloroethene					CAS #: 127-18-4		
8.462	8.462 (0.919)	166	10571	0.80000	0.7762	80.00- 120.00	100.00(a)
8.462	8.462 (0.919)	129	8317			48.51- 108.51	78.68
8.462	8.462 (0.919)	131	8822			45.64- 105.64	83.45
144 1,3-Dichloropropane					CAS #: 142-28-9		
8.569	8.569 (1.270)	76	10469	0.80000	0.7487	80.00- 120.00	100.00(a)
8.576	8.569 (1.271)	41	13485			96.83- 156.83	128.81
8.569	8.569 (1.270)	78	4044			2.46- 62.46	38.63
146 Dibromochloromethane					CAS #: 124-48-1		
8.734	8.734 (0.949)	129	14553	0.80000	0.7938	80.00- 120.00	100.00(a)
8.734	8.734 (0.949)	127	12392			47.05- 107.05	85.15
148 1,2-Dibromoethane (EDB)					CAS #: 106-93-4		
8.856	8.856 (0.962)	107	11965	0.80000	0.7786	80.00- 120.00	100.00(a)
8.863	8.856 (0.963)	109	11328			64.74- 124.74	94.68
* 153 Chlorobenzene-d5					CAS #: 3114-55-4		
9.207	9.207 (1.000)	117	712559	25.0000		80.00- 120.00	100.00
9.207	9.207 (1.000)	82	380065			23.62- 83.62	53.34
154 Chlorobenzene					CAS #: 108-90-7		
9.235	9.235 (1.003)	112	18357	0.80000	0.7870	80.00- 120.00	100.00(a)
9.228	9.235 (1.002)	114	5845			2.19- 62.19	31.84
9.228	9.228 (1.002)	77	18578			23.66- 83.66	101.20

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
155 Ethyl Benzene					CAS #: 100-41-4		
9.278	9.278 (1.008)	106	9413	0.80000	0.8120	80.00- 120.00	100.00
9.278	9.278 (1.008)	91	29367			282.43- 342.43	311.98
156 Nonane					CAS #: 111-84-2		
9.278	9.278 (1.008)	43	19707	0.80000	0.8463	80.00- 120.00	100.00
9.278	9.278 (1.008)	57	16200			55.73- 115.73	82.20
9.278	9.278 (1.008)	85	5638			0.00- 58.99	28.61
158 m,p-Xylene					CAS #: 108-38-3		
9.371	9.371 (1.018)	106	11097	0.80000	0.7875	80.00- 120.00	100.00(a)
9.371	9.371 (1.018)	91	23066			169.66- 229.66	207.86
164 o-Xylene					CAS #: 95-47-6		
9.722	9.722 (1.056)	106	10184	0.80000	0.7714	80.00- 120.00	100.00(a)
9.722	9.722 (1.056)	91	22158			180.55- 240.55	217.58
165 Styrene					CAS #: 100-42-5		
9.744	9.737 (1.058)	104	18105	0.80000	0.7680	80.00- 120.00	100.00(a)
9.737	9.737 (1.058)	78	9528			18.65- 78.65	52.63
167 Bromoform					CAS #: 75-25-2		
9.944	9.944 (1.080)	173	13185	0.80000	0.7509	80.00- 120.00	100.00(a)
9.944	9.944 (1.080)	171	7337			21.64- 81.64	55.65
168 Cumene					CAS #: 98-82-8		
10.009	10.009 (1.087)	105	33154	0.80000	0.7770	80.00- 120.00	100.00(a)
10.009	10.009 (1.087)	120	9121			0.00- 57.04	27.51
10.009	10.009 (1.087)	51	5505			0.00- 41.95	16.60
169 Cyclohexanone					CAS #: 108-94-1		
10.188	10.188 (1.107)	55	19727	0.80000	0.9573	80.00- 120.00	100.00
10.188	10.188 (1.107)	98	5586			8.59- 68.59	28.32
10.188	10.188 (1.107)	42	12798			46.18- 106.18	64.88
$ 170 4-Bromofluorobenzene					CAS #: 460-00-4		
10.202	10.202 (1.108)	174	458933	25.0000	24.571	80.00- 120.00	100.00
10.202	10.195 (1.108)	95	565203			92.25- 152.25	123.16
10.202	10.202 (1.108)	176	430920			63.07- 123.07	93.90
175 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
10.324	10.317 (1.121)	83	16900	0.80000	0.8088	80.00- 120.00	100.00
10.317	10.317 (1.121)	85	11138			34.44- 94.44	65.91
177 Bromobenzene					CAS #: 108-86-1		
10.346	10.338 (1.124)	156	10883	0.80000	0.8203	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
177 Bromobenzene (continued)							
10.338	10.346 (1.123)	158	10916			67.20- 127.20	100.30
10.346	10.338 (1.124)	77	19427			131.36- 191.36	178.51
178 Propylbenzene					CAS #: 103-65-1		
10.360	10.360 (1.125)	120	9740	0.80000	0.7974	80.00- 120.00	100.00(a)
10.360	10.360 (1.125)	91	39821	0.80000	0.7895	385.23- 445.23	408.84
10.360	10.360 (1.125)	105	1841			0.00- 46.02	18.90
179 1,2,3-Trichloropropane					CAS #: 96-18-4		
10.389	10.389 (1.128)	110	5352	0.80000	0.7894	80.00- 120.00	100.00(a)
10.381	10.381 (1.128)	75	17619			301.57- 361.57	329.20
10.381	10.381 (1.128)	61	4650			54.32- 114.32	86.88
181 trans-1,4-Dichloro-2-butene					CAS #: 110-57-6		
10.381	10.374 (1.128)	53	4859	0.80000	0.8929	80.00- 120.00	100.00
10.374	10.374 (1.127)	89	3050			40.38- 100.38	62.77
10.381	10.381 (1.128)	75	17619			394.61- 454.61	362.61
182 Decane					CAS #: 124-18-5		
10.396	10.396 (1.129)	57	30310	0.80000	0.9724	80.00- 120.00	100.00
10.396	10.396 (1.129)	71	10098			2.98- 62.98	33.32
10.403	10.396 (1.130)	142	1556			0.00- 35.12	5.13
183 4-Ethyltoluene					CAS #: 622-96-8		
10.453	10.453 (1.135)	120	10869	0.80000	0.8140	80.00- 120.00	100.00
10.453	10.453 (1.135)	105	34482			295.29- 355.29	317.25
184 2-Chlorotoluene					CAS #: 95-49-8		
10.482	10.482 (1.138)	126	8758	0.80000	0.8022	80.00- 120.00	100.00
10.482	10.482 (1.138)	91	31169			325.01- 385.01	355.89
10.482	10.482 (1.138)	65	4661			19.90- 79.90	53.22
185 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
10.503	10.503 (1.141)	120	13962	0.80000	0.7764	80.00- 120.00	100.00(a)
10.503	10.503 (1.141)	105	27656			176.14- 236.14	198.08
188 alpha Methyl Styrene					CAS #: 98-83-9		
10.711	10.704 (1.163)	118	13416	0.80000	0.7556	80.00- 120.00	100.00(a)
10.704	10.704 (1.163)	103	8189			26.69- 86.69	61.04
189 tert-Butylbenzene					CAS #: 98-06-6		
10.783	10.783 (1.171)	119	28293	0.80000	0.8274	80.00- 120.00	100.00
10.783	10.783 (1.171)	134	7373			0.00- 54.52	26.06
10.783	10.783 (1.171)	91	17702			34.68- 94.68	62.57

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
190 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
10.833	10.833 (1.177)	105	27870	0.80000	0.7827	80.00- 120.00	100.00(a)
10.833	10.833 (1.177)	120	12901			17.12- 77.12	46.29
192 sec-Butylbenzene					CAS #: 135-98-8		
10.969	10.969 (1.191)	134	9725	0.80000	0.8343	80.00- 120.00	100.00
10.969	10.969 (1.191)	105	41914			438.96- 498.96	430.99
10.969	10.969 (1.191)	91	6907			44.37- 104.37	71.02
194 p-Cymene					CAS #: 99-87-6		
11.083	11.083 (1.204)	119	37413	0.80000	0.7910	80.00- 120.00	100.00(a)
11.083	11.083 (1.204)	134	10220			0.00- 56.91	27.32
11.083	11.083 (1.204)	91	9535			0.00- 53.86	25.49
195 1,3-Dichlorobenzene					CAS #: 541-73-1		
11.133	11.134 (1.209)	146	20264	0.80000	0.8067	80.00- 120.00	100.00
11.133	11.134 (1.209)	148	12977			33.78- 93.78	64.04
11.133	11.134 (1.209)	111	8516			11.40- 71.40	42.03
196 1,4-Dichlorobenzene					CAS #: 106-46-7		
11.212	11.212 (1.218)	146	20032	0.80000	0.7759	80.00- 120.00	100.00(a)
11.212	11.212 (1.218)	148	13566			33.73- 93.73	67.72
11.212	11.212 (1.218)	111	8071			9.40- 69.40	40.29
199 alpha-Chlorotoluene					CAS #: 100-44-7		
11.327	11.334 (1.230)	91	27029	0.80000	0.7717	80.00- 120.00	100.00(a)
11.334	11.334 (1.231)	126	6491			0.00- 52.58	24.01
201 Undecane					CAS #: 1120-21-4		
11.406	11.406 (1.239)	57	28133	0.80000	0.8780	80.00- 120.00	100.00
11.406	11.406 (1.239)	43	26388			62.03- 122.03	93.80
202 Butylbenzene					CAS #: 104-51-8		
11.434	11.434 (1.242)	134	10413	0.80000	0.8237	80.00- 120.00	100.00
11.434	11.434 (1.242)	91	35753			322.91- 382.91	343.35
11.434	11.434 (1.242)	92	18477			155.43- 215.43	177.44
204 1,2-Dichlorobenzene					CAS #: 95-50-1		
11.549	11.549 (1.254)	146	20112	0.80000	0.8162	80.00- 120.00	100.00
11.549	11.549 (1.254)	148	12245			33.66- 93.66	60.88
11.549	11.549 (1.254)	111	8146			12.36- 72.36	40.50
207 Dodecane					CAS #: 112-40-3		
12.358	12.358 (1.342)	57	27861	0.98880	0.9855	80.00- 120.00	100.00
12.358	12.358 (1.342)	43	24598			56.62- 116.62	88.29

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
213 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
13.039	13.039 (1.416)	180	20383	1.00720	1.063	80.00- 120.00	100.00
13.039	13.039 (1.416)	182	18227			64.88- 124.88	89.42
215 Hexachlorobutadiene					CAS #: 87-68-3		
13.132	13.132 (1.426)	225	14662	1.02960	1.069	80.00- 120.00	100.00
13.132	13.132 (1.426)	223	9398			33.46- 93.46	64.10
216 Naphthalene					CAS #: 91-20-3		
13.347	13.340 (1.450)	128	6194	0.10160	0.1142	80.00- 120.00	100.00(a)
13.354	13.340 (1.450)	127	758			0.00- 43.71	12.24
222 1,2,3-Trichlorobenzene					CAS #: 87-61-6		
13.612	13.619 (1.478)	180	19238	1.06480	1.106	80.00- 120.00	100.00
13.612	13.619 (1.478)	182	18804			66.23- 126.23	97.74
13.612	13.612 (1.478)	145	7326			5.93- 65.93	38.08

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd3.i
Lab File ID: 3081204.d
Lab Smp Id: ICAL Level #5
Analysis Type: VOA
Quant Type: ISTD
Operator: LD
Method File: /chem/msd3.i/12AUG21.b/321q0812a.m
Misc Info: 0.8ppbv(5.0ppbv)

Calibration Date: 12-AUG-2021
Calibration Time: 19:05
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	229903	137942	321864	211802	-7.87
108 1,4-Difluorobenze	822152	493291	1151013	754232	-8.26
153 Chlorobenzene-d5	775771	465463	1086079	712559	-8.15

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.86	5.53	6.19	5.86	-0.00
108 1,4-Difluorobenze	6.75	6.42	7.08	6.75	-0.00
153 Chlorobenzene-d5	9.21	8.88	9.54	9.21	-0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msd3.i/12AUG21.b/3081204.d

Page 1

Date : 12-AUG-2021 17:15

Client ID:

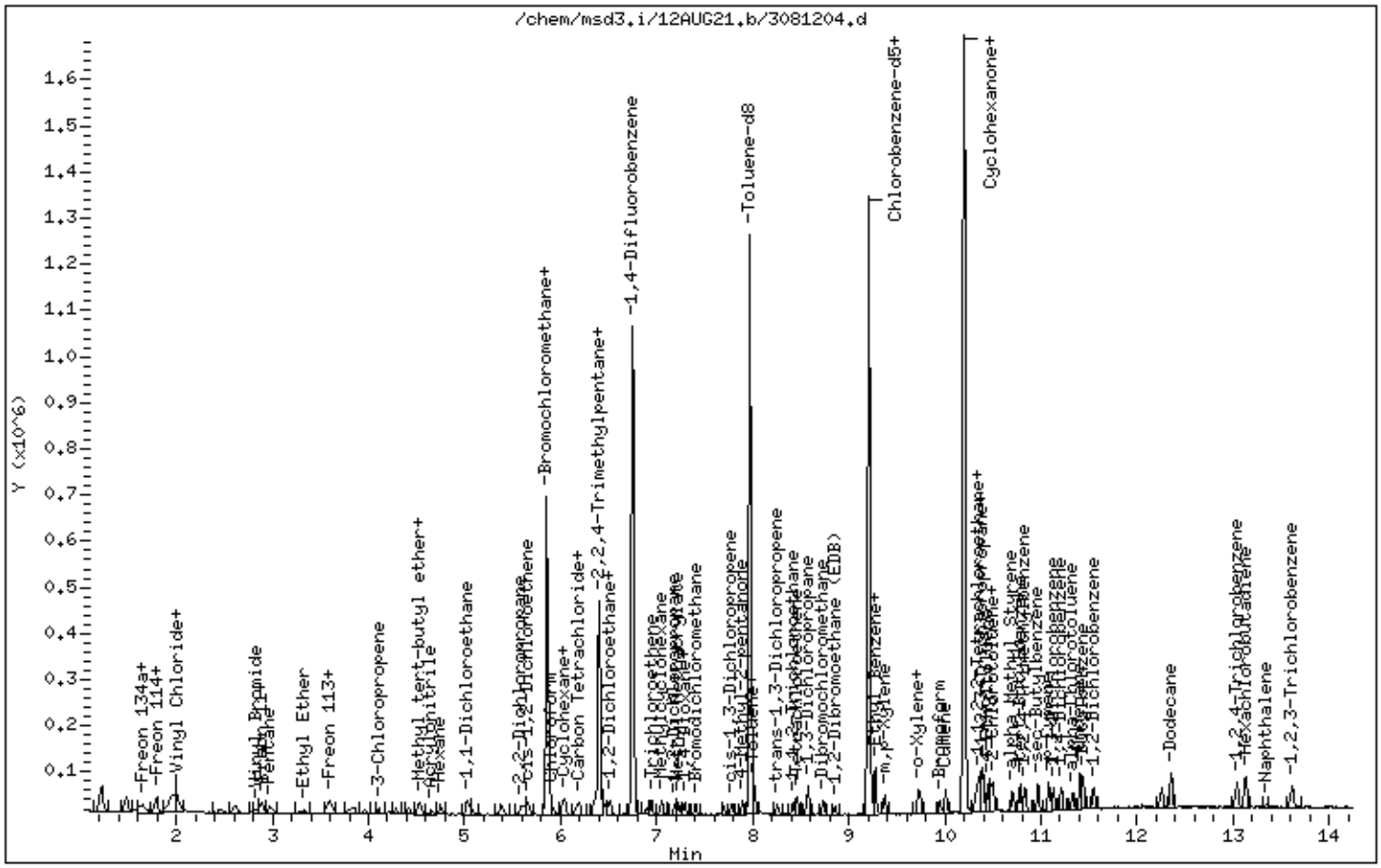
Instrument: msd3.i

Sample Info: 32ml 3018-2220

Operator: LD

Column phase: RTX-624

Column diameter: 0.25



US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msd3.i/12AUG21.b/3081215.d
Lab Smp Id: ICAL Level #5
Inj Date : 12-AUG-2021 23:13
Operator : gh Inst ID: msd3.i
Smp Info : 32ml #3018-2128
Misc Info : 0.8ppbv(5.0ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msd3.i/12AUG21.b/321q0812a.m
Meth Date : 13-Aug-2021 12:38 ugdc Quant Type: ISTD
Cal Date : 12-AUG-2021 23:13 Cal File: 3081215.d
Als bottle: 2 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT20spICAL_lv3.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 90 Bromochloromethane					CAS #: 74-97-5		
5.858	5.858 (1.000)	130	225138	25.0000		80.00- 120.00	100.00
5.858	5.858 (1.000)	128	174184			47.29- 107.29	77.37
5.858	5.858 (1.000)	49	348204			122.83- 182.83	154.66
* 108 1,4-Difluorobenzene					CAS #: 540-36-3		
6.750	6.750 (1.000)	114	819585	25.0000		80.00- 120.00	100.00
6.750	6.750 (1.000)	88	123968			0.00- 45.09	15.13
* 153 Chlorobenzene-d5					CAS #: 3114-55-4		
9.207	9.207 (1.000)	117	764913	25.0000		80.00- 120.00	100.00
9.207	9.207 (1.000)	82	406464			23.62- 83.62	53.14
157 1,1,1,2-Tetrachloroethane					CAS #: 630-20-6		
9.300	9.300 (1.010)	131	10603	0.80000	0.7773	80.00- 120.00	100.00(a)
9.207	9.207 (1.000)	117	764913			38.22- 98.22	7214.12
9.300	9.293 (1.010)	95	4262			7.54- 67.54	40.20

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd3.i
Lab File ID: 3081215.d
Lab Smp Id: ICAL Level #5
Analysis Type: VOA
Quant Type: ISTD
Operator: gh
Method File: /chem/msd3.i/12AUG21.b/321q0812a.m
Misc Info: 0.8ppbv(5.0ppbv)

Calibration Date: 12-AUG-2021
Calibration Time: 19:05
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	229903	137942	321864	225138	-2.07
108 1,4-Difluorobenze	822152	493291	1151013	819585	-0.31
153 Chlorobenzene-d5	775771	465463	1086079	764913	-1.40

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.86	5.53	6.19	5.86	-0.00
108 1,4-Difluorobenze	6.75	6.42	7.08	6.75	-0.00
153 Chlorobenzene-d5	9.21	8.88	9.54	9.21	-0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msd3.i/12AUG21.b/3081215.d

Date : 12-AUG-2021 23:13

Client ID:

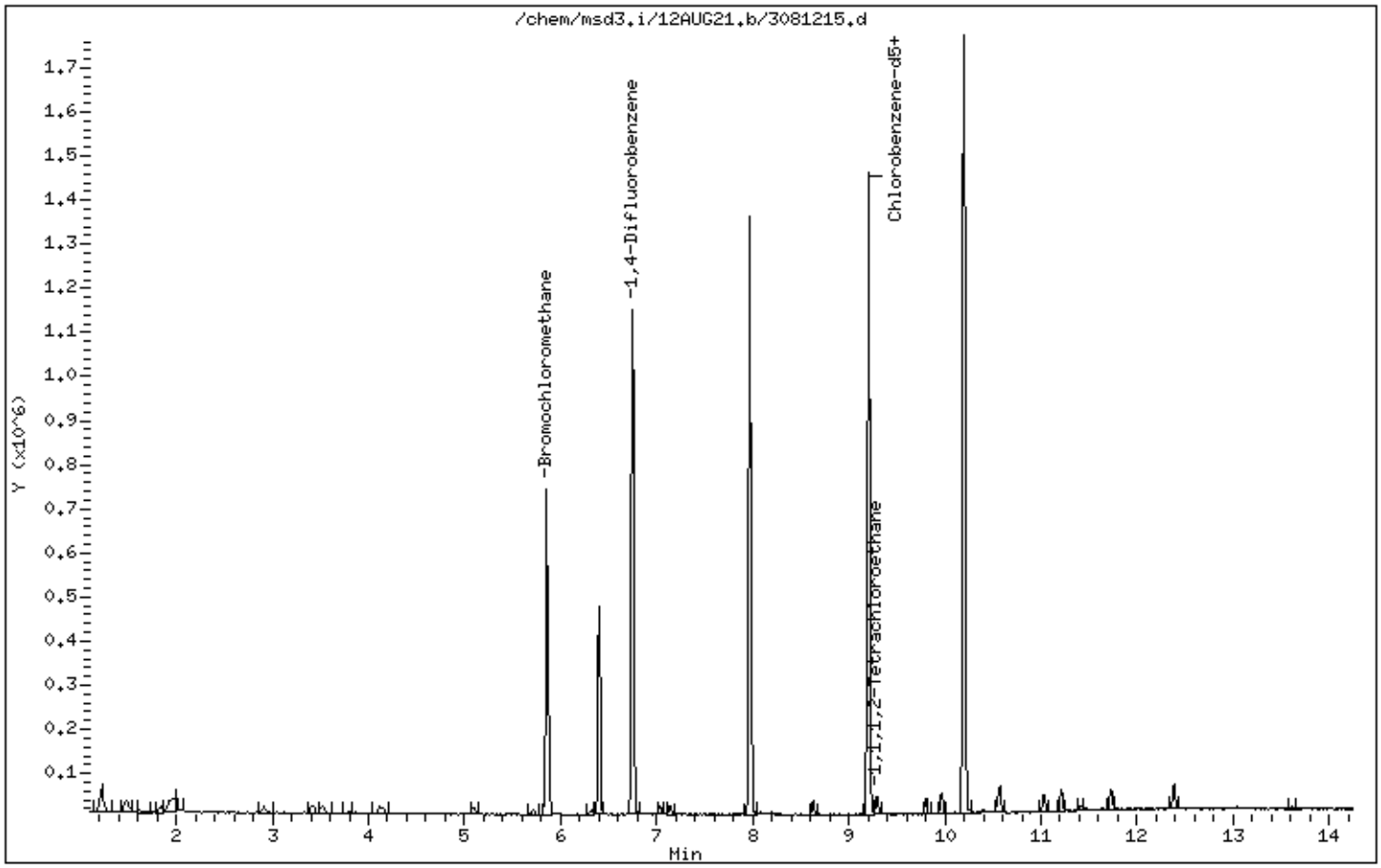
Instrument: msd3.i

Sample Info: 32ml #3018-2128

Operator: gh

Column phase: RTX-624

Column diameter: 0.25



US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msd3.i/12AUG21.b/3081205.d
Lab Smp Id: ICAL Level #6
Inj Date : 12-AUG-2021 17:41
Operator : LD Inst ID: msd3.i
Smp Info : 80ml 3018-2220
Misc Info : 2.0ppbv(5.0ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msd3.i/12AUG21.b/321q0812a.m
Meth Date : 13-Aug-2021 15:04 ugdc Quant Type: ISTD
Cal Date : 12-AUG-2021 23:40 Cal File: 3081216.d
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT20ICAL.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
4 Freon 134a					CAS #: 811-97-2		
1.576	1.577 (0.269)	83	13374	2.00000	2.031	80.00- 120.00	100.00
1.576	1.577 (0.269)	69	12421			50.75- 110.75	92.87
1.576	1.577 (0.269)	51	2708			0.00- 49.76	20.25
5 Propylene					CAS #: 115-07-1		
1.618	1.619 (0.276)	41	13475	2.00000	2.092	80.00- 120.00	100.00
1.618	1.619 (0.276)	42	9279			36.66- 96.66	68.86
1.618	1.619 (0.276)	39	9747			44.11- 104.11	72.33
7 1,1-Difluoroethane					CAS #: 75-37-6		
1.632	1.633 (0.279)	65	9010	2.00000	2.244	80.00- 120.00	100.00
1.632	1.633 (0.279)	51	18341			217.13- 277.13	203.56
1.646	1.633 (0.281)	47	7706			48.77- 108.77	85.53
8 Freon 12					CAS #: 75-71-8		
1.660	1.661 (0.283)	85	37186	2.00000	2.062	80.00- 120.00	100.00
1.660	1.661 (0.283)	87	12467			2.35- 62.35	33.53
9 Chlorodifluoromethane					CAS #: 75-45-6		
1.688	1.689 (0.288)	67	5592	2.00000	2.500	80.00- 120.00	100.00

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
9 Chlorodifluoromethane (continued)							
1.688	1.689 (0.288)	51	31334			710.68- 770.68	560.34
10 Freon 114					CAS #: 76-14-2		
1.800	1.800 (0.307)	135	28270	2.00000	2.063	80.00- 120.00	100.00
1.800	1.800 (0.307)	137	9036			2.06- 62.06	31.96
12 Isobutane					CAS #: 75-28-5		
1.814	1.800 (0.310)	43	28289	2.00000	1.940	80.00- 120.00	100.00(a)
1.814	1.800 (0.310)	42	10650			2.70- 62.70	37.65
1.814	1.800 (0.310)	58	1423			0.00- 33.44	5.03
15 Chloromethane					CAS #: 74-87-3		
1.884	1.884 (0.322)	50	18026	2.00000	2.322	80.00- 120.00	100.00
1.898	1.884 (0.324)	52	9726			3.38- 63.38	53.96
18 Butane					CAS #: 106-97-8		
1.968	1.968 (0.336)	58	5032	2.00000	2.749	80.00- 120.00	100.00
1.968	1.968 (0.336)	43	30776			760.51- 820.51	611.61
19 Vinyl Chloride					CAS #: 75-01-4		
2.010	2.010 (0.343)	62	17898	2.00000	2.113	80.00- 120.00	100.00
2.010	2.010 (0.343)	64	6300			0.32- 60.32	35.20
20 1,3-Butadiene					CAS #: 106-99-0		
2.038	2.038 (0.348)	54	15197	2.00000	1.869	80.00- 120.00	100.00
2.038	2.038 (0.348)	39	15930			72.94- 132.94	104.82
24 Bromomethane					CAS #: 74-83-9		
2.458	2.458 (0.420)	94	15038	2.00000	2.378	80.00- 120.00	100.00
2.458	2.458 (0.420)	96	13854			63.18- 123.18	92.13
30 Chloroethane					CAS #: 75-00-3		
2.598	2.598 (0.443)	64	8779	2.00000	2.333	80.00- 120.00	100.00
2.598	2.598 (0.443)	66	2820			1.10- 61.10	32.12
2.612	2.598 (0.446)	49	3789			5.46- 65.46	43.16
31 Isopentane					CAS #: 78-78-4		
2.626	2.626 (0.448)	43	20508	2.00000	2.091	80.00- 120.00	100.00
2.626	2.626 (0.448)	57	14316			36.12- 96.12	69.81
32 Vinyl Bromide					CAS #: 593-60-2		
2.836	2.836 (0.484)	106	14591	2.00000	2.124	80.00- 120.00	100.00
2.836	2.836 (0.484)	108	12733			63.01- 123.01	87.27
33 Freon 11					CAS #: 75-69-4		
2.892	2.892 (0.494)	101	40597	2.00000	2.026	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
33 Freon 11 (continued)							
2.892	2.892 (0.494)	103	27172			36.55- 96.55	66.93
34 Dichlorofluoromethane					CAS #: 75-43-4		
2.906	2.906 (0.496)	67	31090	2.00000	2.037	80.00- 120.00	100.00
2.906	2.906 (0.496)	69	10961			1.82- 61.82	35.26
35 Pentane					CAS #: 109-66-0		
2.976	2.976 (0.508)	43	33006	2.00000	2.040	80.00- 120.00	100.00
2.976	2.976 (0.508)	57	5824			0.00- 45.52	17.65
2.976	2.976 (0.508)	72	3141			0.00- 38.25	9.52
39 Ethanol					CAS #: 64-17-5		
3.297	3.284 (0.563)	46	4333	2.00000	2.746	80.00- 120.00	100.00
3.325	3.284 (0.568)	45	18892			213.29- 273.29	436.00
38 Ethyl Ether					CAS #: 60-29-7		
3.325	3.326 (0.568)	74	7177	2.00000	2.141	80.00- 120.00	100.00
3.325	3.326 (0.568)	59	12311			143.51- 203.51	171.53
3.325	3.326 (0.568)	45	18892			143.53- 203.53	263.23
42 Acrolein					CAS #: 107-02-8		
3.591	3.591 (0.613)	55	5434	2.00000	2.171	80.00- 120.00	100.00
3.591	3.591 (0.613)	56	7792			104.02- 164.02	143.39
43 Freon 113					CAS #: 76-13-1		
3.591	3.591 (0.613)	151	26701	2.00000	2.013	80.00- 120.00	100.00
3.591	3.591 (0.613)	153	17658			34.03- 94.03	66.13
3.591	3.591 (0.613)	101	31723			89.72- 149.72	118.81
44 1,1-Dichloroethene					CAS #: 75-35-4		
3.619	3.619 (0.618)	96	14907	2.00000	2.004	80.00- 120.00	100.00
3.619	3.619 (0.618)	98	9305			32.85- 92.85	62.42
3.619	3.619 (0.618)	61	29161			165.91- 225.91	195.62
47 Acetone					CAS #: 67-64-1		
3.801	3.787 (0.649)	58	9631	2.00000	2.294	80.00- 120.00	100.00
3.801	3.787 (0.649)	43	32433			325.09- 385.09	336.76
49 Iodomethane					CAS #: 74-88-4		
3.829	3.829 (0.654)	142	30656	2.00000	1.877	80.00- 120.00	100.00(a)
3.829	3.829 (0.654)	127	14641			16.98- 76.98	47.76
48 Carbon Disulfide					CAS #: 75-15-0		
3.857	3.857 (0.658)	76	41432	2.00000	2.183	80.00- 120.00	100.00

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
52 2-Propanol					CAS #: 67-63-0		
3.955	3.941 (0.675)	45	36445	2.00000	2.249	80.00- 120.00	100.00
3.955	3.941 (0.675)	43	7744			0.00- 49.76	21.25
54 3-Chloropropene					CAS #: 107-05-1		
4.109	4.109 (0.701)	76	6803	2.00000	2.078	80.00- 120.00	100.00
4.109	4.109 (0.701)	41	23850			344.92- 404.92	350.58
57 Acetonitrile					CAS #: 75-05-8		
4.221	4.221 (0.721)	41	15504	2.00000	2.157	80.00- 120.00	100.00
4.221	4.221 (0.721)	40	8758			24.08- 84.08	56.49
4.235	4.221 (0.723)	38	1952			0.00- 42.84	12.59
59 Methylene Chloride					CAS #: 75-09-2		
4.291	4.291 (0.732)	49	22593	2.00000	2.140	80.00- 120.00	100.00
4.291	4.291 (0.732)	84	13498			27.95- 87.95	59.74
4.291	4.291 (0.732)	51	8056			0.78- 60.78	35.66
62 tert-Butyl alcohol					CAS #: 75-65-0		
4.417	4.417 (0.754)	59	38533	2.00000	2.060	80.00- 120.00	100.00
4.417	4.417 (0.754)	41	9332			0.00- 52.58	24.22
4.417	4.417 (0.754)	57	4976			0.00- 40.94	12.91
63 Methyl tert-butyl ether					CAS #: 1634-04-4		
4.515	4.515 (0.771)	73	40588	2.00000	1.990	80.00- 120.00	100.00
4.515	4.515 (0.771)	57	12863			0.00- 58.27	31.69
4.515	4.515 (0.771)	41	11372			0.00- 58.78	28.02
64 trans-1,2-Dichloroethene					CAS #: 156-60-5		
4.543	4.543 (0.775)	98	9742	2.00000	2.062	80.00- 120.00	100.00
4.543	4.543 (0.775)	61	26161			236.85- 296.85	268.54
4.543	4.543 (0.775)	96	15552			126.72- 186.72	159.64
66 Acrylonitrile					CAS #: 107-13-1		
4.655	4.655 (0.795)	52	13202	2.00000	2.114	80.00- 120.00	100.00
4.655	4.655 (0.795)	53	14552			88.92- 148.92	110.23
67 Hexane					CAS #: 110-54-3		
4.753	4.753 (0.811)	57	28750	2.00000	2.089	80.00- 120.00	100.00
4.753	4.753 (0.811)	43	18901			36.74- 96.74	65.74
4.753	4.753 (0.811)	86	3693			0.00- 43.22	12.85
72 Isopropyl ether					CAS #: 108-20-3		
5.032	5.019 (0.859)	45	60935	2.00000	2.024	80.00- 120.00	100.00
5.032	5.019 (0.859)	87	13245			0.00- 51.44	21.74
5.032	5.019 (0.859)	59	7023			0.00- 40.81	11.53

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
71 1,1-Dichloroethane						CAS #: 75-34-3	
5.046	5.047 (0.861)	63	29900	2.00000	2.051	80.00- 120.00	100.00
5.046	5.047 (0.861)	65	9463			0.56- 60.56	31.65
73 Vinyl Acetate						CAS #: 108-05-4	
5.088	5.089 (0.869)	86	4176	2.00000	2.312	80.00- 120.00	100.00
5.088	5.089 (0.869)	43	49097			1473.01-1533.01	1175.69
79 Ethyl-tert-butyl ether						CAS #: 637-92-3	
5.382	5.382 (0.919)	59	55225	2.00000	2.014	80.00- 120.00	100.00
5.382	5.382 (0.919)	87	19106			4.28- 64.28	34.60
5.382	5.382 (0.919)	41	12670			0.00- 49.94	22.94
84 2,2-Dichloropropane						CAS #: 594-20-7	
5.592	5.592 (0.955)	77	28218	2.00000	2.048	80.00- 120.00	100.00
5.592	5.592 (0.955)	79	9124			2.43- 62.43	32.33
5.592	5.592 (0.955)	97	6360			0.00- 53.03	22.54
85 cis-1,2-Dichloroethene						CAS #: 156-59-2	
5.620	5.620 (0.959)	98	10075	2.00000	2.012	80.00- 120.00	100.00
5.620	5.620 (0.959)	96	15888			121.91- 181.91	157.70
5.620	5.620 (0.959)	61	29887			313.72- 373.72	296.65
86 2-Butanone						CAS #: 78-93-3	
5.662	5.648 (0.967)	72	7689	2.00000	2.097	80.00- 120.00	100.00
5.662	5.648 (0.967)	43	84000			1111.25-1171.25	1092.47
5.662	5.648 (0.967)	57	3577			11.22- 71.22	46.52
87 Ethyl Acetate						CAS #: 141-78-6	
5.662	5.662 (0.967)	45	8196	2.00000	2.386	80.00- 120.00	100.00
5.620	5.620 (0.959)	61	29887			469.17- 529.17	364.65
5.662	5.662 (0.967)	70	3852			29.38- 89.38	47.00
89 Tetrahydrofuran						CAS #: 109-99-9	
5.858	5.858 (1.000)	42	23261	2.00000	2.086	80.00- 120.00	100.00
5.872	5.858 (1.002)	71	7021			0.09- 60.09	30.18
5.872	5.858 (1.002)	72	7243			2.13- 62.13	31.14
* 90 Bromochloromethane						CAS #: 74-97-5	
5.858	5.858 (1.000)	130	227263	25.0000		80.00- 120.00	100.00
5.858	5.858 (1.000)	128	175886			47.29- 107.29	77.39
5.858	5.858 (1.000)	49	346258			122.83- 182.83	152.36
92 Chloroform						CAS #: 67-66-3	
5.914	5.914 (1.010)	83	32574	2.00000	2.026	80.00- 120.00	100.00
5.914	5.914 (1.010)	85	21701			34.29- 94.29	66.62

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
94 Cyclohexane					CAS #: 110-82-7		
6.026	6.026 (1.029)	84	19091	2.00000	1.940	80.00- 120.00	100.00
6.026	6.026 (1.029)	56	28779			116.85- 176.85	150.75
6.026	6.026 (1.029)	41	16955			57.77- 117.77	88.81
96 1,1,1-Trichloroethane					CAS #: 71-55-6		
6.054	6.054 (1.033)	97	36081	2.00000	2.068	80.00- 120.00	100.00
6.054	6.054 (1.033)	99	23258			34.55- 94.55	64.46
97 Carbon Tetrachloride					CAS #: 56-23-5		
6.166	6.166 (1.053)	119	34807	2.00000	2.039	80.00- 120.00	100.00
6.166	6.166 (1.053)	117	35616			74.20- 134.20	102.32
99 1,1-Dichloropropene					CAS #: 563-58-6		
6.194	6.194 (0.918)	110	8586	2.00000	2.042	80.00- 120.00	100.00
6.194	6.194 (0.918)	75	22329			229.39- 289.39	260.06
101 2,2,4-Trimethylpentane					CAS #: 540-84-1		
6.362	6.348 (1.086)	57	86270	2.00000	1.962	80.00- 120.00	100.00
6.362	6.348 (1.086)	56	30314			1.14- 61.14	35.14
6.348	6.348 (1.084)	41	25022			0.00- 59.12	29.00
102 Benzene					CAS #: 71-43-2		
6.390	6.376 (0.947)	78	41384	2.00000	1.951	80.00- 120.00	100.00
6.376	6.376 (0.945)	77	10430			0.00- 53.48	25.20
$ 104 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
6.404	6.404 (1.093)	65	316977	25.0000	25.038	80.00- 120.00	100.00
6.404	6.404 (1.093)	67	154166			20.51- 80.51	48.64
105 tert-Amyl methyl ether					CAS #: 994-05-8		
6.446	6.446 (0.955)	87	11158	2.00000	2.024	80.00- 120.00	100.00
6.446	6.446 (0.955)	73	44193			363.80- 423.80	396.07
6.446	6.446 (0.955)	55	16433			97.13- 157.13	147.28
106 1,2-Dichloroethane					CAS #: 107-06-2		
6.460	6.474 (0.957)	62	25881	2.00000	2.047	80.00- 120.00	100.00
6.474	6.474 (0.959)	64	8805			1.41- 61.41	34.02
107 Heptane					CAS #: 142-82-5		
6.516	6.516 (0.965)	71	15777	2.00000	1.911	80.00- 120.00	100.00
6.516	6.516 (0.965)	43	33810			146.45- 206.45	214.30
6.516	6.516 (0.965)	57	20862			90.20- 150.20	132.23
* 108 1,4-Difluorobenzene					CAS #: 540-36-3		
6.750	6.750 (1.000)	114	817924	25.0000		80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
* 108 1,4-Difluorobenzene (continued)							
6.750	6.750 (1.000)	88	123918			0.00- 45.09	15.15
110 n-Butanol					CAS #: 71-36-3		
6.893	6.893 (1.021)	56	15476	2.00000	2.114	80.00- 120.00	100.00
6.893	6.886 (1.021)	41	11291			44.46- 104.46	72.96
6.893	6.886 (1.021)	43	9554			28.14- 88.14	61.73
111 Trichloroethene					CAS #: 79-01-6		
6.943	6.943 (1.029)	95	20731	2.00000	1.999	80.00- 120.00	100.00
6.950	6.943 (1.030)	130	21954			79.68- 139.68	105.90
6.943	6.943 (1.029)	97	13770			34.74- 94.74	66.42
127 Methylcyclohexane					CAS #: 108-87-2		
7.050	7.051 (1.045)	83	24733	2.00000	1.890	80.00- 120.00	100.00(a)
7.058	7.051 (1.046)	98	12001			17.10- 77.10	48.52
7.050	7.051 (1.045)	55	27797			71.11- 131.11	112.39
114 1,2-Dichloropropane					CAS #: 78-87-5		
7.187	7.187 (1.065)	63	18804	2.00000	1.980	80.00- 120.00	100.00
7.187	7.187 (1.065)	62	13116			40.55- 100.55	69.75
7.187	7.187 (1.065)	41	14595			36.07- 96.07	77.62
116 Methyl Methacrylate					CAS #: 80-62-6		
7.229	7.230 (0.785)	69	16613	2.00000	2.030	80.00- 120.00	100.00
7.229	7.230 (0.785)	41	30447			160.67- 220.67	183.27
7.229	7.230 (0.785)	100	6958			11.33- 71.33	41.88
117 1,4-Dioxane					CAS #: 123-91-1		
7.272	7.273 (1.077)	88	12191	2.00000	2.050	80.00- 120.00	100.00
7.272	7.273 (1.077)	58	10212			56.19- 116.19	83.77
7.280	7.273 (1.079)	57	4320			0.00- 59.32	35.44
118 Dibromomethane					CAS #: 74-95-3		
7.301	7.294 (0.793)	174	20011	2.00000	2.070	80.00- 120.00	100.00
7.294	7.294 (0.792)	93	19034			66.88- 126.88	95.12
7.294	7.294 (0.792)	95	16501			49.90- 109.90	82.46
122 Bromodichloromethane					CAS #: 75-27-4		
7.409	7.409 (1.098)	83	33840	2.00000	1.951	80.00- 120.00	100.00
7.409	7.409 (1.098)	85	22077			33.85- 93.85	65.24
151 1-Bromo-2-Chloroethane					CAS #: 107-04-0		
7.702	7.702 (1.141)	63	35542	2.00000	2.090	80.00- 120.00	100.00
7.702	7.702 (1.141)	65	10852			0.05- 60.05	30.53
7.702	7.702 (1.141)	144	3954			0.00- 40.91	11.12

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
126 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.781	7.781 (1.153)	75	26511	2.00000	2.007	80.00- 120.00	100.00
7.781	7.781 (1.153)	77	8917			1.50- 61.50	33.64
7.781	7.781 (1.153)	39	19985			43.12- 103.12	75.38
131 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.888	7.889 (1.169)	58	18715	2.00000	2.033	80.00- 120.00	100.00
7.888	7.889 (1.169)	43	51851			247.84- 307.84	277.06
7.888	7.889 (1.169)	85	7100			8.73- 68.73	37.94
$ 134 Toluene-d8					CAS #: 2037-26-5		
7.967	7.967 (1.180)	98	825560	25.0000	24.953	80.00- 120.00	100.00
7.967	7.967 (1.180)	70	98810			0.00- 42.00	11.97
7.967	7.967 (1.180)	100	556902			37.14- 97.14	67.46
136 Octane					CAS #: 111-65-9		
8.003	8.010 (1.186)	57	18047	2.00000	1.903	80.00- 120.00	100.00
8.010	8.010 (1.187)	85	17395			67.77- 127.77	96.39
8.010	8.010 (1.187)	43	47669			225.27- 285.27	264.14
137 Toluene					CAS #: 108-88-3		
8.025	8.025 (1.189)	91	55943	2.00000	1.984	80.00- 120.00	100.00
8.025	8.025 (1.189)	92	32646			28.13- 88.13	58.36
139 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
8.254	8.254 (0.897)	75	24880	2.00000	1.921	80.00- 120.00	100.00
8.254	8.254 (0.897)	77	8818			1.93- 61.93	35.44
8.254	8.254 (0.897)	39	19416			38.37- 98.37	78.04
141 1,1,2-Trichloroethane					CAS #: 79-00-5		
8.419	8.419 (0.914)	97	19220	2.00000	1.989	80.00- 120.00	100.00
8.419	8.419 (0.914)	99	12231			31.66- 91.66	63.64
8.419	8.419 (0.914)	83	17248			55.24- 115.24	89.74
142 Tetrachloroethene					CAS #: 127-18-4		
8.462	8.462 (0.919)	166	28634	2.00000	2.032	80.00- 120.00	100.00
8.462	8.462 (0.919)	129	22526			48.51- 108.51	78.67
8.462	8.462 (0.919)	131	20830			45.64- 105.64	72.75
144 1,3-Dichloropropane					CAS #: 142-28-9		
8.569	8.569 (1.270)	76	27414	2.00000	1.968	80.00- 120.00	100.00(a)
8.569	8.569 (1.270)	41	34084			96.83- 156.83	124.33
8.569	8.569 (1.270)	78	9830			2.46- 62.46	35.86
143 2-Hexanone					CAS #: 591-78-6		
8.576	8.576 (0.932)	58	28695	2.00000	2.107	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
143 2-Hexanone (continued)							
8.576	8.576 (0.932)	43	57622			169.24- 229.24	200.81
8.583	8.576 (0.932)	100	5456			0.00- 48.72	19.01
146 Dibromochloromethane					CAS #: 124-48-1		
8.734	8.734 (0.949)	129	37888	2.00000	1.965	80.00- 120.00	100.00
8.734	8.734 (0.949)	127	29859			47.05- 107.05	78.81
148 1,2-Dibromoethane (EDB)					CAS #: 106-93-4		
8.855	8.856 (0.962)	107	30736	2.00000	1.968	80.00- 120.00	100.00
8.855	8.856 (0.962)	109	29347			64.74- 124.74	95.48
* 153 Chlorobenzene-d5					CAS #: 3114-55-4		
9.206	9.207 (1.000)	117	765402	25.0000		80.00- 120.00	100.00
9.206	9.207 (1.000)	82	412337			23.62- 83.62	53.87
154 Chlorobenzene					CAS #: 108-90-7		
9.235	9.235 (1.003)	112	47312	2.00000	1.970	80.00- 120.00	100.00
9.235	9.235 (1.003)	114	15615			2.19- 62.19	33.00
9.228	9.235 (1.002)	77	33767			23.66- 83.66	71.37
155 Ethyl Benzene					CAS #: 100-41-4		
9.278	9.278 (1.008)	106	22819	2.00000	1.919	80.00- 120.00	100.00
9.278	9.278 (1.008)	91	73948			282.43- 342.43	324.06
156 Nonane					CAS #: 111-84-2		
9.278	9.278 (1.008)	43	47978	2.00000	2.002	80.00- 120.00	100.00
9.278	9.278 (1.008)	57	40321			55.73- 115.73	84.04
9.278	9.278 (1.008)	85	14165			0.00- 58.99	29.52
158 m,p-Xylene					CAS #: 108-38-3		
9.371	9.371 (1.018)	106	28691	2.00000	1.965	80.00- 120.00	100.00
9.371	9.371 (1.018)	91	59731			169.66- 229.66	208.19
164 o-Xylene					CAS #: 95-47-6		
9.722	9.722 (1.056)	106	27632	2.00000	1.996	80.00- 120.00	100.00
9.722	9.722 (1.056)	91	57810			180.55- 240.55	209.21
165 Styrene					CAS #: 100-42-5		
9.737	9.737 (1.058)	104	45555	2.00000	1.900	80.00- 120.00	100.00
9.737	9.737 (1.058)	78	22518			18.65- 78.65	49.43
167 Bromoform					CAS #: 75-25-2		
9.944	9.944 (1.080)	173	35458	2.00000	1.938	80.00- 120.00	100.00
9.951	9.944 (1.081)	171	18474			21.64- 81.64	52.10

				AMOUNTS				
					CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE		(PPBV)	(PPBV)	TARGET RANGE	RATIO
168 Cumene						CAS #: 98-82-8		
10.009	10.009 (1.087)	105	86454	2.00000	1.966	80.00- 120.00	100.00	
10.009	10.009 (1.087)	120	23366			0.00- 57.04	27.03	
10.009	10.009 (1.087)	51	12017			0.00- 41.95	13.90	
169 Cyclohexanone						CAS #: 108-94-1		
10.188	10.188 (1.107)	55	44127	2.00000	2.208	80.00- 120.00	100.00(a)	
10.188	10.188 (1.107)	98	15718			8.59- 68.59	35.62	
10.188	10.188 (1.107)	42	31007			46.18- 106.18	70.27	
$ 170 4-Bromofluorobenzene						CAS #: 460-00-4		
10.202	10.202 (1.108)	174	502537	25.0000	24.979	80.00- 120.00	100.00	
10.195	10.202 (1.107)	95	616523			92.25- 152.25	122.68	
10.202	10.202 (1.108)	176	463920			63.07- 123.07	92.32	
175 1,1,2,2-Tetrachloroethane						CAS #: 79-34-5		
10.317	10.317 (1.121)	83	43611	2.00000	2.034	80.00- 120.00	100.00	
10.317	10.317 (1.121)	85	28069			34.44- 94.44	64.36	
177 Bromobenzene						CAS #: 108-86-1		
10.338	10.338 (1.123)	156	28231	2.00000	2.019	80.00- 120.00	100.00	
10.338	10.346 (1.123)	158	29222			67.20- 127.20	103.51	
10.338	10.338 (1.123)	77	49360			131.36- 191.36	174.84	
178 Propylbenzene						CAS #: 103-65-1		
10.360	10.360 (1.125)	120	25729	2.00000	2.038	80.00- 120.00	100.00	
10.360	10.360 (1.125)	91	103476	2.00000	1.984	385.23- 445.23	402.18	
10.360	10.360 (1.125)	105	4386			0.00- 46.02	17.05	
181 trans-1,4-Dichloro-2-butene						CAS #: 110-57-6		
10.381	10.374 (1.128)	53	11509	2.00000	2.096	80.00- 120.00	100.00	
10.374	10.374 (1.127)	89	7536			40.38- 100.38	65.48	
10.381	10.374 (1.128)	75	43127			394.61- 454.61	374.72	
179 1,2,3-Trichloropropane						CAS #: 96-18-4		
10.381	10.389 (1.128)	110	14064	2.00000	2.040	80.00- 120.00	100.00	
10.381	10.381 (1.128)	75	43133			301.57- 361.57	306.69	
10.381	10.381 (1.128)	61	11911			54.32- 114.32	84.69	
182 Decane						CAS #: 124-18-5		
10.396	10.396 (1.129)	57	59248	2.00000	2.063	80.00- 120.00	100.00	
10.396	10.396 (1.129)	71	20588			2.98- 62.98	34.75	
10.396	10.396 (1.129)	142	3107			0.00- 35.12	5.24	
183 4-Ethyltoluene						CAS #: 622-96-8		
10.453	10.453 (1.135)	120	26669	2.00000	1.956	80.00- 120.00	100.00	

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
183 4-Ethyltoluene (continued)							
10.453	10.453 (1.135)	105	87264			295.29- 355.29	327.21
184 2-Chlorotoluene					CAS #: 95-49-8		
10.482	10.482 (1.138)	126	22468	2.00000	1.982	80.00- 120.00	100.00
10.482	10.482 (1.138)	91	80403			325.01- 385.01	357.86
10.482	10.482 (1.138)	65	15805			19.90- 79.90	70.34
185 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
10.503	10.503 (1.141)	120	38009	2.00000	1.999	80.00- 120.00	100.00
10.503	10.503 (1.141)	105	79197			176.14- 236.14	208.36
188 alpha Methyl Styrene					CAS #: 98-83-9		
10.704	10.704 (1.163)	118	36372	2.00000	1.920	80.00- 120.00	100.00
10.704	10.704 (1.163)	103	21560			26.69- 86.69	59.28
189 tert-Butylbenzene					CAS #: 98-06-6		
10.782	10.783 (1.171)	119	70547	2.00000	1.981	80.00- 120.00	100.00
10.782	10.783 (1.171)	134	18304			0.00- 54.52	25.95
10.782	10.783 (1.171)	91	47986			34.68- 94.68	68.02
190 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
10.832	10.833 (1.177)	105	71188	2.00000	1.929	80.00- 120.00	100.00
10.832	10.833 (1.177)	120	33186			17.12- 77.12	46.62
192 sec-Butylbenzene					CAS #: 135-98-8		
10.969	10.969 (1.191)	134	22972	2.00000	1.953	80.00- 120.00	100.00
10.969	10.969 (1.191)	105	106845			438.96- 498.96	465.11
10.969	10.969 (1.191)	91	17938			44.37- 104.37	78.09
194 p-Cymene					CAS #: 99-87-6		
11.083	11.083 (1.204)	119	94571	2.00000	1.952	80.00- 120.00	100.00
11.083	11.083 (1.204)	134	26066			0.00- 56.91	27.56
11.076	11.083 (1.203)	91	22412			0.00- 53.86	23.70
195 1,3-Dichlorobenzene					CAS #: 541-73-1		
11.133	11.134 (1.209)	146	53557	2.00000	2.035	80.00- 120.00	100.00
11.133	11.134 (1.209)	148	33570			33.78- 93.78	62.68
11.133	11.134 (1.209)	111	21505			11.40- 71.40	40.15
196 1,4-Dichlorobenzene					CAS #: 106-46-7		
11.212	11.212 (1.218)	146	53887	2.00000	2.010	80.00- 120.00	100.00
11.212	11.212 (1.218)	148	33890			33.73- 93.73	62.89
11.212	11.212 (1.218)	111	21267			9.40- 69.40	39.47
199 alpha-Chlorotoluene					CAS #: 100-44-7		
11.327	11.334 (1.230)	91	71227	2.00000	1.951	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
199 alpha-Chlorotoluene (continued)							
11.334	11.334 (1.231)	126	16637			0.00- 52.58	23.36
201 Undecane					CAS #: 1120-21-4		
11.406	11.406 (1.239)	57	66628	2.00000	2.065	80.00- 120.00	100.00
11.406	11.406 (1.239)	43	62040			62.03- 122.03	93.11
202 Butylbenzene					CAS #: 104-51-8		
11.434	11.434 (1.242)	134	25360	2.00000	1.957	80.00- 120.00	100.00
11.434	11.434 (1.242)	91	92954			322.91- 382.91	366.54
11.434	11.434 (1.242)	92	47245			155.43- 215.43	186.30
204 1,2-Dichlorobenzene					CAS #: 95-50-1		
11.549	11.549 (1.254)	146	50378	2.00000	1.976	80.00- 120.00	100.00
11.549	11.549 (1.254)	148	32312			33.66- 93.66	64.14
11.549	11.549 (1.254)	111	21179			12.36- 72.36	42.04
206 1,2-Dibromo-3-chloropropane					CAS #: 96-12-8		
12.258	12.258 (1.331)	157	32493	2.00000	2.073	80.00- 120.00	100.00
12.258	12.258 (1.331)	75	27844			56.77- 116.77	85.69
12.258	12.258 (1.331)	155	24769			48.17- 108.17	76.23
207 Dodecane					CAS #: 112-40-3		
12.358	12.358 (1.342)	57	68781	2.47200	2.388	80.00- 120.00	100.00
12.358	12.358 (1.342)	43	61873			56.62- 116.62	89.96
213 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
13.039	13.039 (1.416)	180	51483	2.51800	2.597	80.00- 120.00	100.00
13.039	13.039 (1.416)	182	48277			64.88- 124.88	93.77
215 Hexachlorobutadiene					CAS #: 87-68-3		
13.132	13.132 (1.426)	225	36847	2.57400	2.574	80.00- 120.00	100.00
13.132	13.132 (1.426)	223	25158			33.46- 93.46	68.28
216 Naphthalene					CAS #: 91-20-3		
13.340	13.340 (1.449)	128	14674	0.25400	0.2687	80.00- 120.00	100.00(a)
13.347	13.340 (1.450)	127	2489			0.00- 43.71	16.96
222 1,2,3-Trichlorobenzene					CAS #: 87-61-6		
13.619	13.619 (1.479)	180	50926	2.66200	2.766	80.00- 120.00	100.00
13.612	13.619 (1.478)	182	47668			66.23- 126.23	93.60
13.619	13.612 (1.479)	145	18040			5.93- 65.93	35.42

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd3.i
Lab File ID: 3081205.d
Lab Smp Id: ICAL Level #6
Analysis Type: VOA
Quant Type: ISTD
Operator: LD
Method File: /chem/msd3.i/12AUG21.b/321q0812a.m
Misc Info: 2.0ppbv(5.0ppbv)

Calibration Date: 12-AUG-2021
Calibration Time: 19:05
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	229903	137942	321864	227263	-1.15
108 1,4-Difluorobenze	822152	493291	1151013	817924	-0.51
153 Chlorobenzene-d5	775771	465463	1086079	765402	-1.34

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.86	5.53	6.19	5.86	-0.00
108 1,4-Difluorobenze	6.75	6.42	7.08	6.75	-0.00
153 Chlorobenzene-d5	9.21	8.88	9.54	9.21	-0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msd3.i/12AUG21.b/3081205.d

Date : 12-AUG-2021 17:41

Client ID:

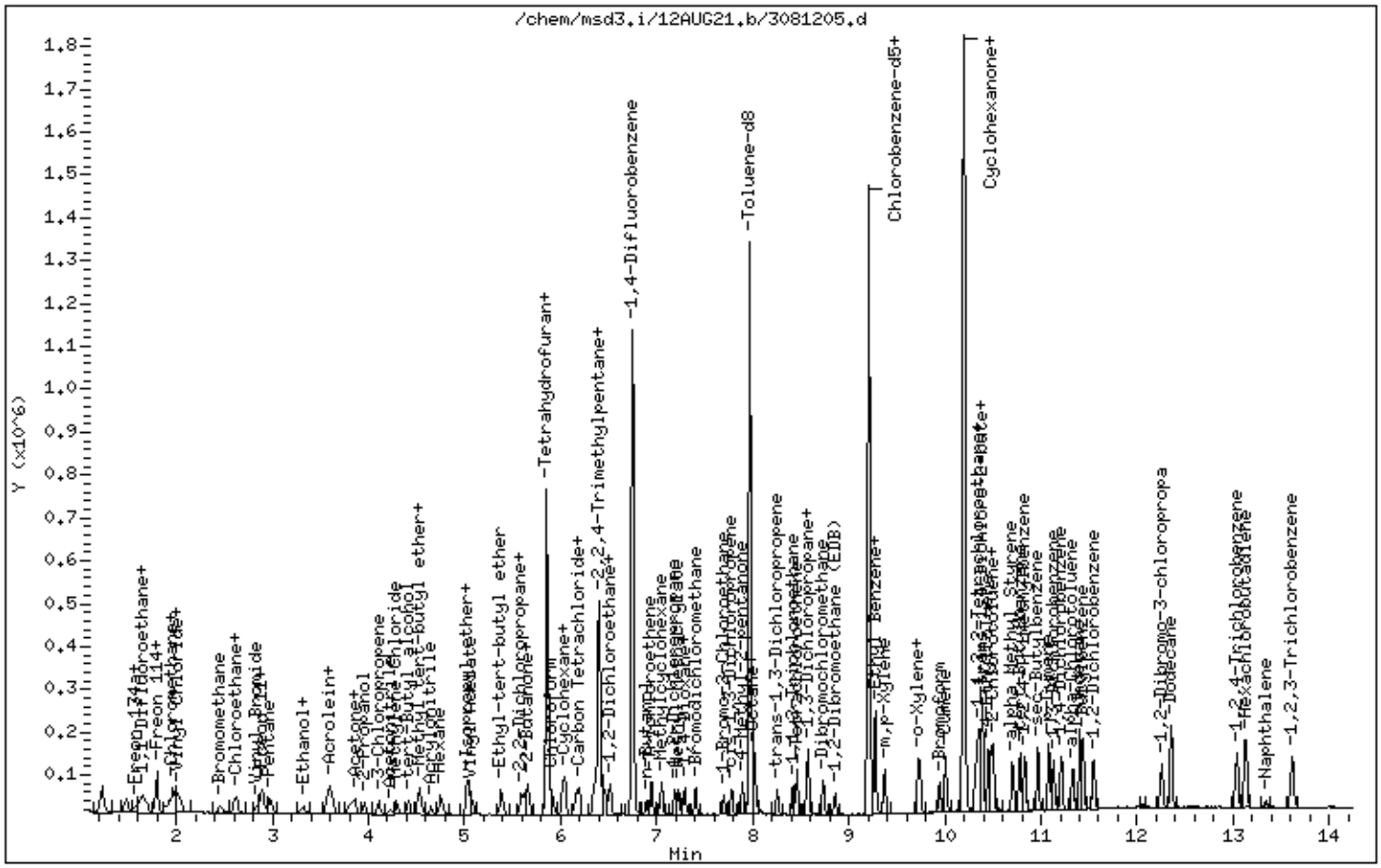
Instrument: msd3.i

Sample Info: 80ml 3018-2220

Operator: LD

Column phase: RTX-624

Column diameter: 0.25



US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msd3.i/12AUG21.b/3081216.d
Lab Smp Id: ICAL Level #6
Inj Date : 12-AUG-2021 23:40
Operator : gh Inst ID: msd3.i
Smp Info : 80ml #3018-2128
Misc Info : 2.0ppbv(5.0ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msd3.i/12AUG21.b/321q0812a.m
Meth Date : 13-Aug-2021 12:38 ugdc Quant Type: ISTD
Cal Date : 12-AUG-2021 23:40 Cal File: 3081216.d
Als bottle: 2 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT20spICAL.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
* 90 Bromochloromethane					CAS #: 74-97-5		
5.858	5.858 (1.000)	130	245710	25.0000		80.00- 120.00	100.00
5.858	5.858 (1.000)	128	190234			47.29- 107.29	77.42
5.858	5.858 (1.000)	49	373526			122.83- 182.83	152.02
* 108 1,4-Difluorobenzene					CAS #: 540-36-3		
6.750	6.750 (1.000)	114	887513	25.0000		80.00- 120.00	100.00
6.750	6.750 (1.000)	88	133966			0.00- 45.09	15.09
* 153 Chlorobenzene-d5					CAS #: 3114-55-4		
9.207	9.207 (1.000)	117	826789	25.0000		80.00- 120.00	100.00
9.207	9.207 (1.000)	82	444660			23.62- 83.62	53.78
3 Freon 143a					CAS #: 420-46-2		
1.521	1.520 (0.260)	65	11007	2.00000	2.068	80.00- 120.00	100.00
1.521	1.520 (0.260)	69	24457			217.09- 277.09	222.19
1.521	1.520 (0.260)	64	3265			0.00- 55.87	29.66
6 Propane					CAS #: 74-98-6		
1.619	1.618 (0.276)	43	5067	2.00000	2.000	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
6 Propane (continued)							
1.619	1.618 (0.276)	39	4561			41.62- 101.62	90.01
1.619	1.618 (0.276)	41	3301			22.97- 82.97	65.15
13 Freon 142b					CAS #: 75-68-3		
1.842	1.842 (0.315)	65	33454	2.00000	2.044	80.00- 120.00	100.00
1.842	1.842 (0.315)	45	10801			0.00- 58.17	32.29
36 1-Pentene					CAS #: 109-67-1		
2.906	2.920 (0.496)	55	18720	2.00000	1.983	80.00- 120.00	100.00(a)
2.920	2.920 (0.498)	42	24807			99.17- 159.17	132.52
40 Freon 123a					CAS #: 354-23-4		
3.424	3.423 (0.584)	117	23044	2.00000	2.006	80.00- 120.00	100.00(a)
3.424	3.423 (0.584)	67	30775			103.13- 163.13	133.55
41 Freon 123					CAS #: 306-83-2		
3.522	3.521 (0.601)	83	32155	2.00000	1.991	80.00- 120.00	100.00(a)
3.522	3.521 (0.601)	133	7919			0.00- 51.81	24.63
3.522	3.521 (0.601)	85	22312			37.13- 97.13	69.39
55 Cyclopentene					CAS #: 142-29-0		
4.123	4.123 (0.704)	67	32213	2.00000	1.950	80.00- 120.00	100.00(a)
4.123	4.123 (0.704)	68	13021			7.90- 67.90	40.42
4.123	4.123 (0.704)	53	9308			0.00- 54.87	28.90
56 Methyl Acetate					CAS #: 79-20-9		
4.151	4.151 (0.709)	43	35410	2.00000	1.975	80.00- 120.00	100.00(a)
4.151	4.151 (0.709)	74	6060			0.00- 47.15	17.11
74 Chloroprene					CAS #: 126-99-8		
5.089	5.088 (0.869)	53	30085	2.00000	1.995	80.00- 120.00	100.00(a)
5.089	5.102 (0.869)	88	12408			12.33- 72.33	41.24
5.089	5.088 (0.869)	50	9511			0.00- 57.62	31.61
75 1-Propanol					CAS #: 71-23-8		
5.159	5.158 (0.881)	59	4434	2.00000	2.110	80.00- 120.00	100.00
5.159	5.158 (0.881)	42	5258			53.89- 113.89	118.58
5.159	5.158 (0.881)	41	2714			24.09- 84.09	61.21
88 Methyl Acrylate					CAS #: 96-33-3		
5.718	5.718 (0.976)	55	35008	2.00000	2.002	80.00- 120.00	100.00(a)
5.718	5.718 (0.976)	85	4599			0.00- 43.24	13.14
5.718	5.718 (0.976)	58	3232			0.00- 38.83	9.23
103 Isobutanol					CAS #: 78-83-1		
6.320	6.320 (1.079)	39	5434	2.00000	2.029	80.00- 120.00	100.00(a)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
103 Isobutanol (continued)							
6.320	6.320 (1.079)	43	17964			327.69- 387.69	330.59
6.320	6.320 (1.079)	41	13092			237.56- 297.56	240.93
113 Ethyl acrylate					CAS #: 140-88-5		
7.029	7.036 (0.763)	99	2673	2.00000	1.956	80.00- 120.00	100.00(a)
7.036	7.036 (0.764)	45	4595			124.67- 184.67	171.90
7.036	7.036 (0.764)	55	42957			1601.30-1661.30	1607.07
115 2-Pentanone					CAS #: 107-87-9		
7.137	7.129 (0.775)	43	54176	2.00000	1.972	80.00- 120.00	100.00(a)
7.137	7.129 (0.775)	58	4372			0.00- 37.25	8.07
7.137	7.136 (0.775)	86	8061			0.00- 45.08	14.88
145 Butyl Acetate					CAS #: 123-86-4		
8.627	8.626 (1.278)	56	24300	2.00000	1.989	80.00- 120.00	100.00(a)
8.627	8.626 (1.278)	73	8628			5.16- 65.16	35.51
8.627	8.626 (1.278)	43	60924			214.00- 274.00	250.72
157 1,1,1,2-Tetrachloroethane					CAS #: 630-20-6		
9.300	9.300 (1.010)	131	26458	2.00000	1.842	80.00- 120.00	100.00(a)
9.207	9.207 (1.000)	117	826789			38.22- 98.22	3124.91
9.293	9.293 (1.009)	95	10000			7.54- 67.54	37.80
166 2-Heptanone					CAS #: 110-43-0		
9.801	9.801 (1.673)	58	35813	2.00000	1.966	80.00- 120.00	100.00(a)
9.801	9.801 (1.673)	43	61384			133.36- 193.36	171.40
172 D-Limonene					CAS #: 5989-27-5		
11.026	11.033 (1.198)	68	21479	2.00000	1.581	80.00- 120.00	100.00(a)
11.026	11.033 (1.198)	93	17463			42.08- 102.08	81.30
186 4-Chlorotoluene					CAS #: 106-43-4		
10.582	10.582 (1.149)	126	24333	2.00000	1.925	80.00- 120.00	100.00(a)
10.575	10.575 (1.149)	91	78377			305.94- 365.94	322.10
10.575	10.575 (1.149)	63	11306			15.44- 75.44	46.46
197 1,2,3-Trimethylbenzene					CAS #: 526-73-8		
11.212	11.212 (1.218)	120	31227	2.00000	1.888	80.00- 120.00	100.00(a)
11.212	11.212 (1.218)	105	73819			206.43- 266.43	236.39
11.212	11.212 (1.218)	77	9771			0.00- 58.29	31.29
205 Hexachloroethane					CAS #: 67-72-1		
11.728	11.728 (1.274)	201	17464	2.00000	1.799	80.00- 120.00	100.00(a)
11.728	11.728 (1.274)	117	23186			109.77- 169.77	132.76

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
208 1,3,5-Trichlorobenzene					CAS #: 108-70-3		
12.387	12.387 (1.345)	180	49670	2.00000	1.959	80.00- 120.00	100.00(a)
12.387	12.387 (1.345)	182	45922			65.79- 125.79	92.45
210 alpha-Pinene					CAS #: 80-56-8		
9.966	9.973 (1.082)	93	48833	2.00000	1.832	80.00- 120.00	100.00(a)
9.973	9.973 (1.083)	77	15809			0.13- 60.13	32.37
214 beta-Pinene					CAS #: 127-91-3		
10.553	10.560 (1.146)	93	35817	2.00000	1.816	80.00- 120.00	100.00(a)
10.575	10.575 (1.149)	91	78377			145.95- 205.95	218.83

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd3.i
Lab File ID: 3081216.d
Lab Smp Id: ICAL Level #6
Analysis Type: VOA
Quant Type: ISTD
Operator: gh
Method File: /chem/msd3.i/12AUG21.b/321q0812a.m
Misc Info: 2.0ppbv(5.0ppbv)

Calibration Date: 12-AUG-2021
Calibration Time: 19:05
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	229903	137942	321864	245710	6.88
108 1,4-Difluorobenze	822152	493291	1151013	887513	7.95
153 Chlorobenzene-d5	775771	465463	1086079	826789	6.58

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.86	5.53	6.19	5.86	0.00
108 1,4-Difluorobenze	6.75	6.42	7.08	6.75	0.00
153 Chlorobenzene-d5	9.21	8.88	9.54	9.21	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msd3.i/12AUG21.b/3081216.d

Date : 12-AUG-2021 23:40

Client ID:

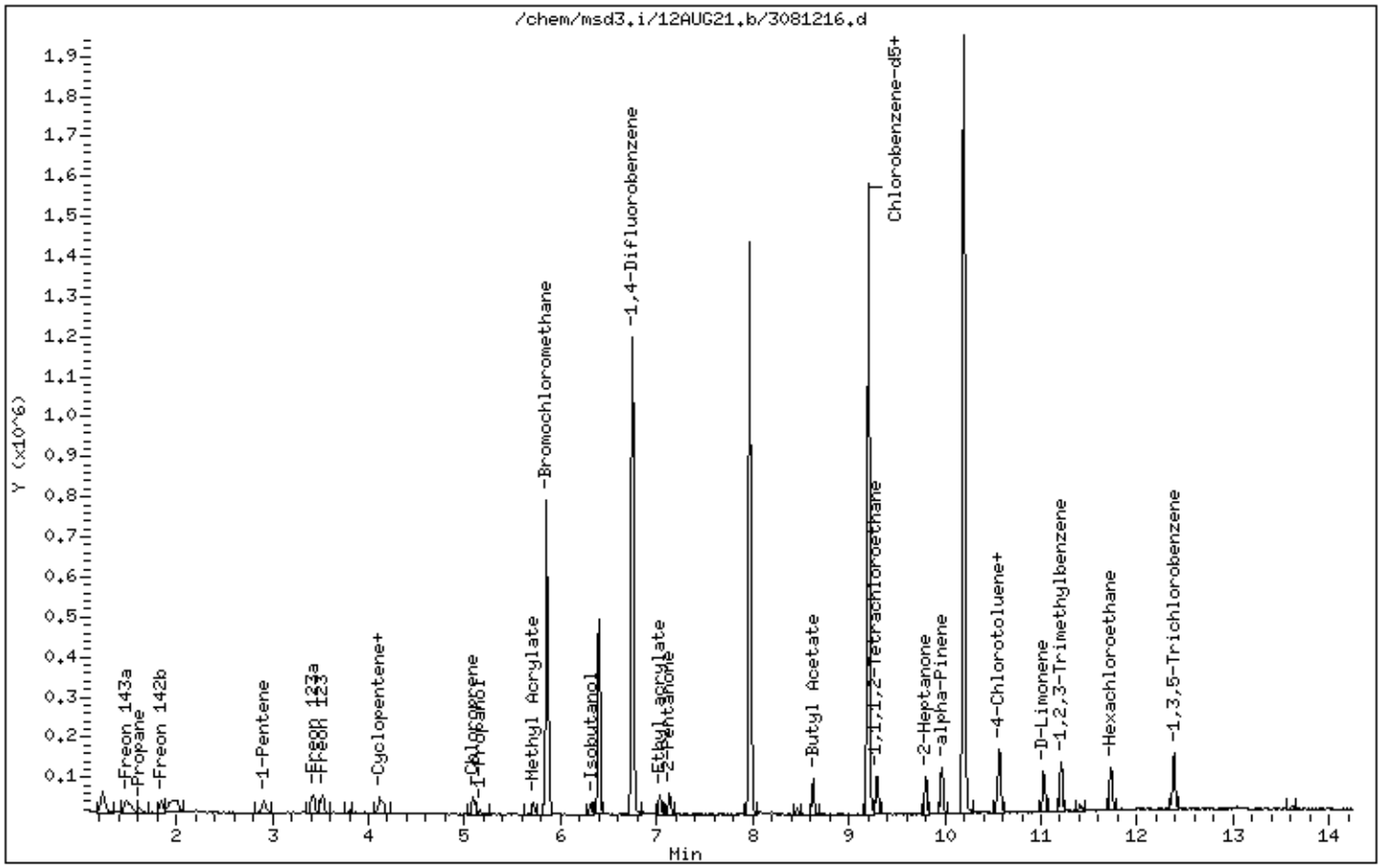
Instrument: msd3.i

Sample Info: 80ml #3018-2128

Operator: gh

Column phase: RTX-624

Column diameter: 0.25



US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msd3.i/12AUG21.b/3081206.d
Lab Smp Id: ICAL Level #7
Inj Date : 12-AUG-2021 18:11
Operator : LD Inst ID: msd3.i
Smp Info : 200ml 3018-2220
Misc Info : 5.0ppbv(5.0ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msd3.i/12AUG21.b/321q0812a.m
Meth Date : 13-Aug-2021 08:08 ugdc Quant Type: ISTD
Cal Date : 12-AUG-2021 18:11 Cal File: 3081206.d
Als bottle: 1 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT20ICAL.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
4 Freon 134a					CAS #: 811-97-2		
1.591	1.577 (0.271)	83	30437	5.00000	4.924	80.00- 120.00	100.00
1.577	1.577 (0.268)	69	25144			50.75- 110.75	82.61
1.507	1.577 (0.257)	51	186			0.00- 49.76	0.61
5 Propylene					CAS #: 115-07-1		
1.619	1.619 (0.276)	41	30768	5.00000	5.138	80.00- 120.00	100.00
1.619	1.619 (0.276)	42	20085			36.66- 96.66	65.28
1.619	1.619 (0.276)	39	22222			44.11- 104.11	72.22
7 1,1-Difluoroethane					CAS #: 75-37-6		
1.647	1.633 (0.280)	65	19560	5.00000	5.116	80.00- 120.00	100.00
1.703	1.633 (0.290)	51	85146			217.13- 277.13	435.31
1.661	1.633 (0.283)	47	15580			48.77- 108.77	79.65
8 Freon 12					CAS #: 75-71-8		
1.661	1.661 (0.283)	85	84636	5.00000	5.026	80.00- 120.00	100.00
1.661	1.661 (0.283)	87	26921			2.35- 62.35	31.81
9 Chlorodifluoromethane					CAS #: 75-45-6		
1.703	1.689 (0.290)	67	10579	5.00000	4.623	80.00- 120.00	100.00

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
9 Chlorodifluoromethane (continued)							
1.703	1.689 (0.290)	51	92835			710.68- 770.68	877.54
10 Freon 114					CAS #: 76-14-2		
1.801	1.800 (0.307)	135	63325	5.00000	4.906	80.00- 120.00	100.00
1.801	1.800 (0.307)	137	19802			2.06- 62.06	31.27
12 Isobutane					CAS #: 75-28-5		
1.815	1.800 (0.309)	43	68645	5.00000	5.080	80.00- 120.00	100.00
1.815	1.800 (0.309)	42	22133			2.70- 62.70	32.24
1.815	1.800 (0.309)	58	3086			0.00- 33.44	4.50
15 Chloromethane					CAS #: 74-87-3		
1.898	1.884 (0.323)	50	38403	5.00000	5.137	80.00- 120.00	100.00
1.898	1.884 (0.323)	52	14845			3.38- 63.38	38.66
18 Butane					CAS #: 106-97-8		
1.968	1.968 (0.335)	58	9346	5.00000	5.012	80.00- 120.00	100.00
1.968	1.968 (0.335)	43	64298			760.51- 820.51	687.97
19 Vinyl Chloride					CAS #: 75-01-4		
2.010	2.010 (0.342)	62	36169	5.00000	4.319	80.00- 120.00	100.00
2.010	2.010 (0.342)	64	12296			0.32- 60.32	34.00
20 1,3-Butadiene					CAS #: 106-99-0		
2.052	2.038 (0.349)	54	31056	5.00000	3.704	80.00- 120.00	100.00
2.052	2.038 (0.349)	39	31710			72.94- 132.94	102.11
24 Bromomethane					CAS #: 74-83-9		
2.458	2.458 (0.419)	94	36402	5.00000	5.685	80.00- 120.00	100.00
2.458	2.458 (0.419)	96	33138			63.18- 123.18	91.03
30 Chloroethane					CAS #: 75-00-3		
2.612	2.598 (0.445)	64	17626	5.00000	4.921	80.00- 120.00	100.00
2.612	2.598 (0.445)	66	6162			1.10- 61.10	34.96
2.612	2.598 (0.445)	49	7455			5.46- 65.46	42.30
31 Isopentane					CAS #: 78-78-4		
2.626	2.626 (0.447)	43	46384	5.00000	5.105	80.00- 120.00	100.00
2.626	2.626 (0.447)	57	31676			36.12- 96.12	68.29
32 Vinyl Bromide					CAS #: 593-60-2		
2.850	2.836 (0.485)	106	31320	5.00000	4.840	80.00- 120.00	100.00
2.850	2.836 (0.485)	108	29188			63.01- 123.01	93.19
33 Freon 11					CAS #: 75-69-4		
2.892	2.892 (0.492)	101	91629	5.00000	4.884	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
33 Freon 11 (continued)							
2.892	2.892 (0.492)	103	61002			36.55- 96.55	66.57
34 Dichlorofluoromethane					CAS #: 75-43-4		
2.906	2.906 (0.495)	67	71932	5.00000	5.028	80.00- 120.00	100.00
2.906	2.906 (0.495)	69	23194			1.82- 61.82	32.24
35 Pentane					CAS #: 109-66-0		
2.976	2.976 (0.507)	43	72072	5.00000	4.670	80.00- 120.00	100.00
2.976	2.976 (0.507)	57	11803			0.00- 45.52	16.38
2.976	2.976 (0.507)	72	6548			0.00- 38.25	9.09
39 Ethanol					CAS #: 64-17-5		
3.298	3.284 (0.562)	46	7875	5.00000	4.985	80.00- 120.00	100.00
3.326	3.284 (0.566)	45	37552			213.29- 273.29	476.85
38 Ethyl Ether					CAS #: 60-29-7		
3.326	3.326 (0.566)	74	14972	5.00000	4.703	80.00- 120.00	100.00
3.326	3.326 (0.566)	59	25425			143.51- 203.51	169.82
3.326	3.326 (0.566)	45	38389			143.53- 203.53	256.41
42 Acrolein					CAS #: 107-02-8		
3.591	3.591 (0.612)	55	11814	5.00000	5.025	80.00- 120.00	100.00
3.605	3.591 (0.614)	56	17822			104.02- 164.02	150.85
43 Freon 113					CAS #: 76-13-1		
3.591	3.591 (0.612)	151	59546	5.00000	4.774	80.00- 120.00	100.00
3.591	3.591 (0.612)	153	37931			34.03- 94.03	63.70
3.591	3.591 (0.612)	101	71596			89.72- 149.72	120.24
44 1,1-Dichloroethene					CAS #: 75-35-4		
3.619	3.619 (0.616)	96	32512	5.00000	4.562	80.00- 120.00	100.00
3.633	3.619 (0.619)	98	20944			32.85- 92.85	64.42
3.619	3.619 (0.616)	61	65640			165.91- 225.91	201.89
47 Acetone					CAS #: 67-64-1		
3.801	3.787 (0.647)	58	19669	5.00000	4.934	80.00- 120.00	100.00
3.801	3.787 (0.647)	43	70560			325.09- 385.09	358.74
49 Iodomethane					CAS #: 74-88-4		
3.843	3.829 (0.654)	142	53422	5.00000	3.905	80.00- 120.00	100.00
3.843	3.829 (0.654)	127	25725			16.98- 76.98	48.15
48 Carbon Disulfide					CAS #: 75-15-0		
3.871	3.857 (0.659)	76	89771	5.00000	5.047	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
52 2-Propanol					CAS #: 67-63-0		
3.969	3.941 (0.676)	45	74864	5.00000	4.905	80.00- 120.00	100.00
3.969	3.941 (0.676)	43	16230			0.00- 49.76	21.68
54 3-Chloropropene					CAS #: 107-05-1		
4.109	4.109 (0.700)	76	14972	5.00000	4.826	80.00- 120.00	100.00
4.109	4.109 (0.700)	41	52824			344.92- 404.92	352.82
57 Acetonitrile					CAS #: 75-05-8		
4.235	4.221 (0.721)	41	33966	5.00000	5.092	80.00- 120.00	100.00
4.235	4.221 (0.721)	40	19592			24.08- 84.08	57.68
4.235	4.221 (0.721)	38	4127			0.00- 42.84	12.15
59 Methylene Chloride					CAS #: 75-09-2		
4.305	4.291 (0.733)	49	51161	5.00000	5.158	80.00- 120.00	100.00
4.305	4.291 (0.733)	84	29030			27.95- 87.95	56.74
4.305	4.291 (0.733)	51	15242			0.78- 60.78	29.79
62 tert-Butyl alcohol					CAS #: 75-65-0		
4.417	4.417 (0.752)	59	89652	5.00000	5.178	80.00- 120.00	100.00
4.417	4.417 (0.752)	41	20520			0.00- 52.58	22.89
4.417	4.417 (0.752)	57	10317			0.00- 40.94	11.51
63 Methyl tert-butyl ether					CAS #: 1634-04-4		
4.529	4.515 (0.771)	73	92826	5.00000	4.902	80.00- 120.00	100.00
4.529	4.515 (0.771)	57	27138			0.00- 58.27	29.24
4.529	4.515 (0.771)	41	27712			0.00- 58.78	29.85
64 trans-1,2-Dichloroethene					CAS #: 156-60-5		
4.543	4.543 (0.774)	98	21938	5.00000	4.980	80.00- 120.00	100.00
4.543	4.543 (0.774)	61	58637			236.85- 296.85	267.29
4.543	4.543 (0.774)	96	34812			126.72- 186.72	158.68
66 Acrylonitrile					CAS #: 107-13-1		
4.655	4.655 (0.793)	52	26356	5.00000	4.278	80.00- 120.00	100.00
4.655	4.655 (0.793)	53	32047			88.92- 148.92	121.59
67 Hexane					CAS #: 110-54-3		
4.753	4.753 (0.809)	57	62178	5.00000	4.841	80.00- 120.00	100.00
4.753	4.753 (0.809)	43	40582			36.74- 96.74	65.27
4.753	4.753 (0.809)	86	8350			0.00- 43.22	13.43
72 Isopropyl ether					CAS #: 108-20-3		
5.033	5.019 (0.857)	45	142183	5.00000	5.140	80.00- 120.00	100.00
5.033	5.033 (0.857)	87	29713			0.00- 51.44	20.90
5.033	5.019 (0.857)	59	15669			0.00- 40.81	11.02

	RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
	71 1,1-Dichloroethane					CAS #: 75-34-3		
	5.047	5.047 (0.859)	63	66490	5.00000	4.856	80.00- 120.00	100.00
	5.047	5.047 (0.859)	65	20525			0.56- 60.56	30.87
	73 Vinyl Acetate					CAS #: 108-05-4		
	5.089	5.089 (0.867)	86	8090	5.00000	4.770	80.00- 120.00	100.00
	5.089	5.075 (0.867)	43	113940			1473.01-1533.01	1408.41
	79 Ethyl-tert-butyl ether					CAS #: 637-92-3		
	5.382	5.382 (0.917)	59	126901	5.00000	5.064	80.00- 120.00	100.00
	5.396	5.382 (0.919)	87	43869			4.28- 64.28	34.57
	5.382	5.382 (0.917)	41	26052			0.00- 49.94	20.53
	84 2,2-Dichloropropane					CAS #: 594-20-7		
	5.592	5.592 (0.952)	77	64597	5.00000	5.062	80.00- 120.00	100.00
	5.592	5.592 (0.952)	79	20294			2.43- 62.43	31.42
	5.592	5.592 (0.952)	97	14846			0.00- 53.03	22.98
	85 cis-1,2-Dichloroethene					CAS #: 156-59-2		
	5.634	5.620 (0.959)	98	22548	5.00000	4.822	80.00- 120.00	100.00
	5.634	5.620 (0.959)	96	34705			121.91- 181.91	153.92
	5.634	5.620 (0.959)	61	78906			313.72- 373.72	349.95
	86 2-Butanone					CAS #: 78-93-3		
	5.662	5.648 (0.964)	72	17195	5.00000	5.067	80.00- 120.00	100.00
	5.662	5.662 (0.964)	43	195967			1111.25-1171.25	1139.67
	5.662	5.648 (0.964)	57	7902			11.22- 71.22	45.96
	87 Ethyl Acetate					CAS #: 141-78-6		
	5.662	5.662 (0.964)	45	16249	5.00000	4.897	80.00- 120.00	100.00
	5.634	5.620 (0.959)	61	78906			469.17- 529.17	485.61
	5.662	5.662 (0.964)	70	9971			29.38- 89.38	61.36
	89 Tetrahydrofuran					CAS #: 109-99-9		
	5.872	5.858 (1.000)	42	47691	5.00000	4.462	80.00- 120.00	100.00
	5.872	5.858 (1.000)	71	14706			0.09- 60.09	30.84
	5.872	5.858 (1.000)	72	16666			2.13- 62.13	34.95
*	90 Bromochloromethane					CAS #: 74-97-5		
	5.872	5.858 (1.000)	130	206630	25.0000		80.00- 120.00	100.00
	5.872	5.858 (1.000)	128	160169			47.29- 107.29	77.51
	5.858	5.858 (1.000)	49	312487			122.83- 182.83	151.23
	92 Chloroform					CAS #: 67-66-3		
	5.914	5.914 (1.007)	83	73517	5.00000	4.892	80.00- 120.00	100.00
	5.914	5.914 (1.007)	85	46522			34.29- 94.29	63.28

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
94 Cyclohexane					CAS #: 110-82-7		
6.026	6.026 (1.026)	84	43912	5.00000	4.778	80.00- 120.00	100.00
6.026	6.026 (1.026)	56	65429			116.85- 176.85	149.00
6.026	6.026 (1.026)	41	37904			57.77- 117.77	86.32
96 1,1,1-Trichloroethane					CAS #: 71-55-6		
6.054	6.054 (1.031)	97	79405	5.00000	4.881	80.00- 120.00	100.00
6.054	6.054 (1.031)	99	50910			34.55- 94.55	64.11
97 Carbon Tetrachloride					CAS #: 56-23-5		
6.166	6.166 (1.050)	119	77251	5.00000	5.037	80.00- 120.00	100.00
6.166	6.166 (1.050)	117	81932			74.20- 134.20	106.06
99 1,1-Dichloropropene					CAS #: 563-58-6		
6.194	6.194 (0.918)	110	18873	5.00000	4.804	80.00- 120.00	100.00
6.194	6.194 (0.918)	75	51213			229.39- 289.39	271.36
101 2,2,4-Trimethylpentane					CAS #: 540-84-1		
6.362	6.348 (1.083)	57	196101	5.00000	4.805	80.00- 120.00	100.00
6.362	6.348 (1.083)	56	60762			1.14- 61.14	30.99
6.362	6.348 (1.083)	41	59643			0.00- 59.12	30.41
102 Benzene					CAS #: 71-43-2		
6.390	6.376 (0.947)	78	95990	5.00000	4.776	80.00- 120.00	100.00
6.390	6.376 (0.947)	77	23349			0.00- 53.48	24.32
$ 104 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
6.404	6.404 (1.091)	65	287725	25.0000	24.982	80.00- 120.00	100.00
6.404	6.404 (1.091)	67	136861			20.51- 80.51	47.57
105 tert-Amyl methyl ether					CAS #: 994-05-8		
6.446	6.446 (0.955)	87	25449	5.00000	5.039	80.00- 120.00	100.00
6.446	6.446 (0.955)	73	98016			363.80- 423.80	385.15
6.446	6.432 (0.955)	55	33103			97.13- 157.13	130.08
106 1,2-Dichloroethane					CAS #: 107-06-2		
6.474	6.474 (0.959)	62	58374	5.00000	4.876	80.00- 120.00	100.00
6.474	6.474 (0.959)	64	18829			1.41- 61.41	32.26
107 Heptane					CAS #: 142-82-5		
6.516	6.516 (0.965)	71	38317	5.00000	5.048	80.00- 120.00	100.00
6.516	6.516 (0.965)	43	85238			146.45- 206.45	222.45
6.516	6.516 (0.965)	57	47944			90.20- 150.20	125.12
* 108 1,4-Difluorobenzene					CAS #: 540-36-3		
6.750	6.750 (1.000)	114	744672	25.0000		80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
* 108 1,4-Difluorobenzene (continued)							
6.750	6.750 (1.000)	88	111620			0.00- 45.09	14.99
110 n-Butanol					CAS #: 71-36-3		
6.893	6.893 (1.021)	56	35430	5.00000	5.154	80.00- 120.00	100.00
6.893	6.886 (1.021)	41	27036			44.46- 104.46	76.31
6.893	6.886 (1.021)	43	20349			28.14- 88.14	57.43
111 Trichloroethene					CAS #: 79-01-6		
6.950	6.943 (1.030)	95	47122	5.00000	4.846	80.00- 120.00	100.00
6.950	6.950 (1.030)	130	51551			79.68- 139.68	109.40
6.950	6.943 (1.030)	97	30640			34.74- 94.74	65.02
127 Methylcyclohexane					CAS #: 108-87-2		
7.058	7.051 (1.046)	83	57666	5.00000	4.768	80.00- 120.00	100.00
7.058	7.051 (1.046)	98	26919			17.10- 77.10	46.68
7.058	7.051 (1.046)	55	60673			71.11- 131.11	105.21
114 1,2-Dichloropropane					CAS #: 78-87-5		
7.194	7.187 (1.066)	63	42559	5.00000	4.749	80.00- 120.00	100.00
7.194	7.187 (1.066)	62	30010			40.55- 100.55	70.51
7.194	7.187 (1.066)	41	31749			36.07- 96.07	74.60
116 Methyl Methacrylate					CAS #: 80-62-6		
7.237	7.230 (0.786)	69	38285	5.00000	4.993	80.00- 120.00	100.00
7.230	7.230 (0.785)	41	68694			160.67- 220.67	179.43
7.237	7.230 (0.786)	100	15088			11.33- 71.33	39.41
117 1,4-Dioxane					CAS #: 123-91-1		
7.280	7.273 (1.079)	88	27390	5.00000	4.954	80.00- 120.00	100.00
7.273	7.273 (1.077)	58	24395			56.19- 116.19	89.07
7.280	7.273 (1.079)	57	8773			0.00- 59.32	32.03
118 Dibromomethane					CAS #: 74-95-3		
7.301	7.294 (0.793)	174	43651	5.00000	4.745	80.00- 120.00	100.00
7.301	7.294 (0.793)	93	42901			66.88- 126.88	98.28
7.301	7.294 (0.793)	95	35375			49.90- 109.90	81.04
122 Bromodichloromethane					CAS #: 75-27-4		
7.409	7.409 (1.098)	83	78706	5.00000	4.865	80.00- 120.00	100.00
7.409	7.409 (1.098)	85	49778			33.85- 93.85	63.25
151 1-Bromo-2-Chloroethane					CAS #: 107-04-0		
7.702	7.702 (1.141)	63	78715	5.00000	5.000	80.00- 120.00	100.00
7.702	7.702 (1.141)	65	23793			0.05- 60.05	30.23
7.710	7.702 (1.142)	144	8407			0.00- 40.91	10.68

				AMOUNTS				
					CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE		(PPBV)	(PPBV)	TARGET RANGE	RATIO
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126 cis-1,3-Dichloropropene						CAS #: 10061-01-5		
7.788	7.781 (1.154)	75	58010	5.00000		4.722	80.00- 120.00	100.00
7.781	7.781 (1.153)	77	19526				1.50- 61.50	33.66
7.781	7.781 (1.153)	39	42167				43.12- 103.12	72.69
131 4-Methyl-2-pentanone						CAS #: 108-10-1		
7.889	7.889 (1.169)	58	40735	5.00000		4.686	80.00- 120.00	100.00
7.889	7.889 (1.169)	43	115597				247.84- 307.84	283.78
7.896	7.889 (1.170)	85	16369				8.73- 68.73	40.18
$ 134 Toluene-d8						CAS #: 2037-26-5		
7.975	7.967 (1.181)	98	755078	25.0000		25.068	80.00- 120.00	100.00
7.975	7.967 (1.181)	70	99554				0.00- 42.00	13.18
7.975	7.967 (1.181)	100	502742				37.14- 97.14	66.58
136 Octane						CAS #: 111-65-9		
8.011	8.010 (1.187)	57	40119	5.00000		4.511	80.00- 120.00	100.00
8.011	8.010 (1.187)	85	40305				67.77- 127.77	100.46
8.011	8.010 (1.187)	43	105380				225.27- 285.27	262.67
137 Toluene						CAS #: 108-88-3		
8.025	8.025 (1.189)	91	127277	5.00000		4.844	80.00- 120.00	100.00
8.025	8.025 (1.189)	92	73040				28.13- 88.13	57.39
139 trans-1,3-Dichloropropene						CAS #: 10061-02-6		
8.261	8.254 (0.897)	75	57023	5.00000		4.653	80.00- 120.00	100.00
8.261	8.254 (0.897)	77	18839				1.93- 61.93	33.04
8.261	8.254 (0.897)	39	40289				38.37- 98.37	70.65
141 1,1,2-Trichloroethane						CAS #: 79-00-5		
8.419	8.419 (0.914)	97	43392	5.00000		4.752	80.00- 120.00	100.00
8.419	8.419 (0.914)	99	26766				31.66- 91.66	61.68
8.419	8.419 (0.914)	83	38003				55.24- 115.24	87.58
142 Tetrachloroethene						CAS #: 127-18-4		
8.462	8.462 (0.919)	166	64369	5.00000		4.832	80.00- 120.00	100.00
8.462	8.462 (0.919)	129	51738				48.51- 108.51	80.38
8.462	8.462 (0.919)	131	48591				45.64- 105.64	75.49
144 1,3-Dichloropropane						CAS #: 142-28-9		
8.569	8.569 (1.270)	76	60429	5.00000		4.579	80.00- 120.00	100.00
8.569	8.569 (1.270)	41	77186				96.83- 156.83	127.73
8.569	8.569 (1.270)	78	20583				2.46- 62.46	34.06
143 2-Hexanone						CAS #: 591-78-6		
8.576	8.576 (0.932)	58	64272	5.00000		5.008	80.00- 120.00	100.00

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
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143 2-Hexanone (continued)							
8.576	8.576 (0.932)	43	131037			169.24- 229.24	203.88
8.576	8.576 (0.932)	100	11615			0.00- 48.72	18.07
146 Dibromochloromethane					CAS #: 124-48-1		
8.734	8.734 (0.949)	129	87377	5.00000	4.882	80.00- 120.00	100.00
8.734	8.734 (0.949)	127	66603			47.05- 107.05	76.22
148 1,2-Dibromoethane (EDB)					CAS #: 106-93-4		
8.863	8.856 (0.963)	107	69377	5.00000	4.702	80.00- 120.00	100.00
8.863	8.856 (0.963)	109	64935			64.74- 124.74	93.60
* 153 Chlorobenzene-d5					CAS #: 3114-55-4		
9.207	9.207 (1.000)	117	706535	25.0000		80.00- 120.00	100.00
9.207	9.207 (1.000)	82	376479			23.62- 83.62	53.29
154 Chlorobenzene					CAS #: 108-90-7		
9.235	9.235 (1.003)	112	107938	5.00000	4.764	80.00- 120.00	100.00
9.235	9.235 (1.003)	114	35444			2.19- 62.19	32.84
9.235	9.228 (1.003)	77	66391			23.66- 83.66	61.51
155 Ethyl Benzene					CAS #: 100-41-4		
9.278	9.278 (1.008)	106	53665	5.00000	4.813	80.00- 120.00	100.00
9.278	9.278 (1.008)	91	166884			282.43- 342.43	310.97
156 Nonane					CAS #: 111-84-2		
9.278	9.278 (1.008)	43	109022	5.00000	4.839	80.00- 120.00	100.00
9.278	9.278 (1.008)	57	91498			55.73- 115.73	83.93
9.278	9.278 (1.008)	85	30602			0.00- 58.99	28.07
158 m,p-Xylene					CAS #: 108-38-3		
9.379	9.371 (1.019)	106	65711	5.00000	4.810	80.00- 120.00	100.00
9.371	9.371 (1.018)	91	131077			169.66- 229.66	199.47
164 o-Xylene					CAS #: 95-47-6		
9.722	9.722 (1.056)	106	61816	5.00000	4.800	80.00- 120.00	100.00
9.722	9.722 (1.056)	91	131584			180.55- 240.55	212.86
165 Styrene					CAS #: 100-42-5		
9.737	9.737 (1.058)	104	103530	5.00000	4.628	80.00- 120.00	100.00
9.737	9.737 (1.058)	78	52159			18.65- 78.65	50.38
167 Bromoform					CAS #: 75-25-2		
9.945	9.944 (1.080)	173	80205	5.00000	4.738	80.00- 120.00	100.00
9.945	9.944 (1.080)	171	41265			21.64- 81.64	51.45

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
168 Cumene					CAS #: 98-82-8		
10.009	10.009 (1.087)	105	195672	5.00000	4.750	80.00- 120.00	100.00
10.009	10.009 (1.087)	120	53550			0.00- 57.04	27.37
10.009	10.009 (1.087)	51	24258			0.00- 41.95	12.40
169 Cyclohexanone					CAS #: 108-94-1		
10.188	10.188 (1.107)	55	94898	5.00000	4.732	80.00- 120.00	100.00(a)
10.188	10.188 (1.107)	98	34025			8.59- 68.59	35.85
10.188	10.188 (1.107)	42	69535			46.18- 106.18	73.27
$ 170 4-Bromofluorobenzene					CAS #: 460-00-4		
10.202	10.202 (1.108)	174	462392	25.0000	24.965	80.00- 120.00	100.00
10.195	10.195 (1.107)	95	566709			92.25- 152.25	122.56
10.202	10.202 (1.108)	176	433124			63.07- 123.07	93.67
175 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
10.317	10.317 (1.121)	83	96242	5.00000	4.739	80.00- 120.00	100.00
10.317	10.317 (1.121)	85	62545			34.44- 94.44	64.99
177 Bromobenzene					CAS #: 108-86-1		
10.346	10.338 (1.124)	156	63434	5.00000	4.877	80.00- 120.00	100.00
10.346	10.346 (1.124)	158	62742			67.20- 127.20	98.91
10.338	10.338 (1.123)	77	133190			131.36- 191.36	209.97
178 Propylbenzene					CAS #: 103-65-1		
10.360	10.360 (1.125)	120	55626	5.00000	4.688	80.00- 120.00	100.00
10.360	10.360 (1.125)	91	238583	5.00000	4.859	385.23- 445.23	428.91
10.360	10.360 (1.125)	105	9199			0.00- 46.02	16.54
181 trans-1,4-Dichloro-2-butene					CAS #: 110-57-6		
10.381	10.374 (1.128)	53	25123	5.00000	4.756	80.00- 120.00	100.00
10.374	10.374 (1.127)	89	16833			40.38- 100.38	67.00
10.381	10.381 (1.128)	75	98574			394.61- 454.61	392.37
179 1,2,3-Trichloropropane					CAS #: 96-18-4		
10.381	10.389 (1.128)	110	29874	5.00000	4.577	80.00- 120.00	100.00
10.381	10.381 (1.128)	75	97951			301.57- 361.57	327.88
10.381	10.381 (1.128)	61	28397			54.32- 114.32	95.06
182 Decane					CAS #: 124-18-5		
10.396	10.396 (1.129)	57	124095	5.00000	4.355	80.00- 120.00	100.00
10.396	10.396 (1.129)	71	41818			2.98- 62.98	33.70
10.396	10.396 (1.129)	142	6060			0.00- 35.12	4.88
183 4-Ethyltoluene					CAS #: 622-96-8		
10.453	10.453 (1.135)	120	61138	5.00000	4.757	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
183 4-Ethyltoluene (continued)							
10.453	10.453 (1.135)	105	205774			295.29- 355.29	336.57
184 2-Chlorotoluene					CAS #: 95-49-8		
10.482	10.482 (1.138)	126	52014	5.00000	4.884	80.00- 120.00	100.00
10.482	10.482 (1.138)	91	180888			325.01- 385.01	347.77
10.482	10.482 (1.138)	65	23773			19.90- 79.90	45.71
185 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
10.503	10.503 (1.141)	120	86381	5.00000	4.891	80.00- 120.00	100.00
10.503	10.503 (1.141)	105	169144			176.14- 236.14	195.81
188 alpha Methyl Styrene					CAS #: 98-83-9		
10.711	10.704 (1.163)	118	84185	5.00000	4.870	80.00- 120.00	100.00
10.711	10.704 (1.163)	103	48451			26.69- 86.69	57.55
189 tert-Butylbenzene					CAS #: 98-06-6		
10.783	10.783 (1.171)	119	160998	5.00000	4.858	80.00- 120.00	100.00
10.783	10.783 (1.171)	134	40223			0.00- 54.52	24.98
10.783	10.783 (1.171)	91	109375			34.68- 94.68	67.94
190 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
10.833	10.833 (1.177)	105	166280	5.00000	4.833	80.00- 120.00	100.00
10.833	10.833 (1.177)	120	77726			17.12- 77.12	46.74
192 sec-Butylbenzene					CAS #: 135-98-8		
10.969	10.969 (1.191)	134	52197	5.00000	4.684	80.00- 120.00	100.00
10.969	10.969 (1.191)	105	240713			438.96- 498.96	461.16
10.969	10.969 (1.191)	91	38005			44.37- 104.37	72.81
194 p-Cymene					CAS #: 99-87-6		
11.083	11.083 (1.204)	119	216306	5.00000	4.752	80.00- 120.00	100.00
11.083	11.083 (1.204)	134	57558			0.00- 56.91	26.61
11.083	11.083 (1.204)	91	53108			0.00- 53.86	24.55
195 1,3-Dichlorobenzene					CAS #: 541-73-1		
11.134	11.134 (1.209)	146	117961	5.00000	4.794	80.00- 120.00	100.00
11.134	11.134 (1.209)	148	75646			33.78- 93.78	64.13
11.134	11.134 (1.209)	111	49025			11.40- 71.40	41.56
196 1,4-Dichlorobenzene					CAS #: 106-46-7		
11.212	11.212 (1.218)	146	120603	5.00000	4.794	80.00- 120.00	100.00
11.212	11.212 (1.218)	148	75878			33.73- 93.73	62.92
11.212	11.212 (1.218)	111	47747			9.40- 69.40	39.59
199 alpha-Chlorotoluene					CAS #: 100-44-7		
11.334	11.334 (1.231)	91	162656	5.00000	4.795	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
199 alpha-Chlorotoluene (continued)							
11.334	11.334 (1.231)	126	37261			0.00- 52.58	22.91
201 Undecane					CAS #: 1120-21-4		
11.406	11.406 (1.239)	57	143839	5.00000	4.675	80.00- 120.00	100.00
11.406	11.406 (1.239)	43	136406			62.03- 122.03	94.83
202 Butylbenzene					CAS #: 104-51-8		
11.434	11.434 (1.242)	134	58703	5.00000	4.808	80.00- 120.00	100.00
11.434	11.434 (1.242)	91	206999			322.91- 382.91	352.62
11.434	11.434 (1.242)	92	105908			155.43- 215.43	180.41
204 1,2-Dichlorobenzene					CAS #: 95-50-1		
11.549	11.549 (1.254)	146	115002	5.00000	4.810	80.00- 120.00	100.00
11.549	11.549 (1.254)	148	74460			33.66- 93.66	64.75
11.549	11.549 (1.254)	111	49328			12.36- 72.36	42.89
206 1,2-Dibromo-3-chloropropane					CAS #: 96-12-8		
12.258	12.258 (1.331)	157	73327	5.00000	4.998	80.00- 120.00	100.00
12.258	12.258 (1.331)	75	65016			56.77- 116.77	88.67
12.258	12.258 (1.331)	155	55380			48.17- 108.17	75.52
207 Dodecane					CAS #: 112-40-3		
12.358	12.358 (1.342)	57	158723	6.18000	5.858	80.00- 120.00	100.00
12.358	12.358 (1.342)	43	139026			56.62- 116.62	87.59
213 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
13.039	13.039 (1.416)	180	114885	6.29500	6.116	80.00- 120.00	100.00
13.039	13.039 (1.416)	182	110671			64.88- 124.88	96.33
215 Hexachlorobutadiene					CAS #: 87-68-3		
13.132	13.132 (1.426)	225	85024	6.43500	6.341	80.00- 120.00	100.00
13.132	13.132 (1.426)	223	53685			33.46- 93.46	63.14
216 Naphthalene					CAS #: 91-20-3		
13.340	13.340 (1.449)	128	32420	0.63500	0.6120	80.00- 120.00	100.00
13.340	13.340 (1.449)	127	5184			0.00- 43.71	15.99
222 1,2,3-Trichlorobenzene					CAS #: 87-61-6		
13.619	13.619 (1.479)	180	116033	6.65500	6.671	80.00- 120.00	100.00
13.619	13.619 (1.479)	182	110858			66.23- 126.23	95.54
13.619	13.612 (1.479)	145	40961			5.93- 65.93	35.30

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd3.i
Lab File ID: 3081206.d
Lab Smp Id: ICAL Level #7
Analysis Type: VOA
Quant Type: ISTD
Operator: LD
Method File: /chem/msd3.i/12AUG21.b/321q0812a.m
Misc Info: 5.0ppbv(5.0ppbv)

Calibration Date: 12-AUG-2021
Calibration Time: 19:05
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	229903	137942	321864	206630	-10.12
108 1,4-Difluorobenze	822152	493291	1151013	744672	-9.42
153 Chlorobenzene-d5	775771	465463	1086079	706535	-8.92

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.86	5.53	6.19	5.87	0.24
108 1,4-Difluorobenze	6.75	6.42	7.08	6.75	0.00
153 Chlorobenzene-d5	9.21	8.88	9.54	9.21	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msd3.i/12AUG21.b/3081206.d

Page 1

Date : 12-AUG-2021 18:11

Client ID:

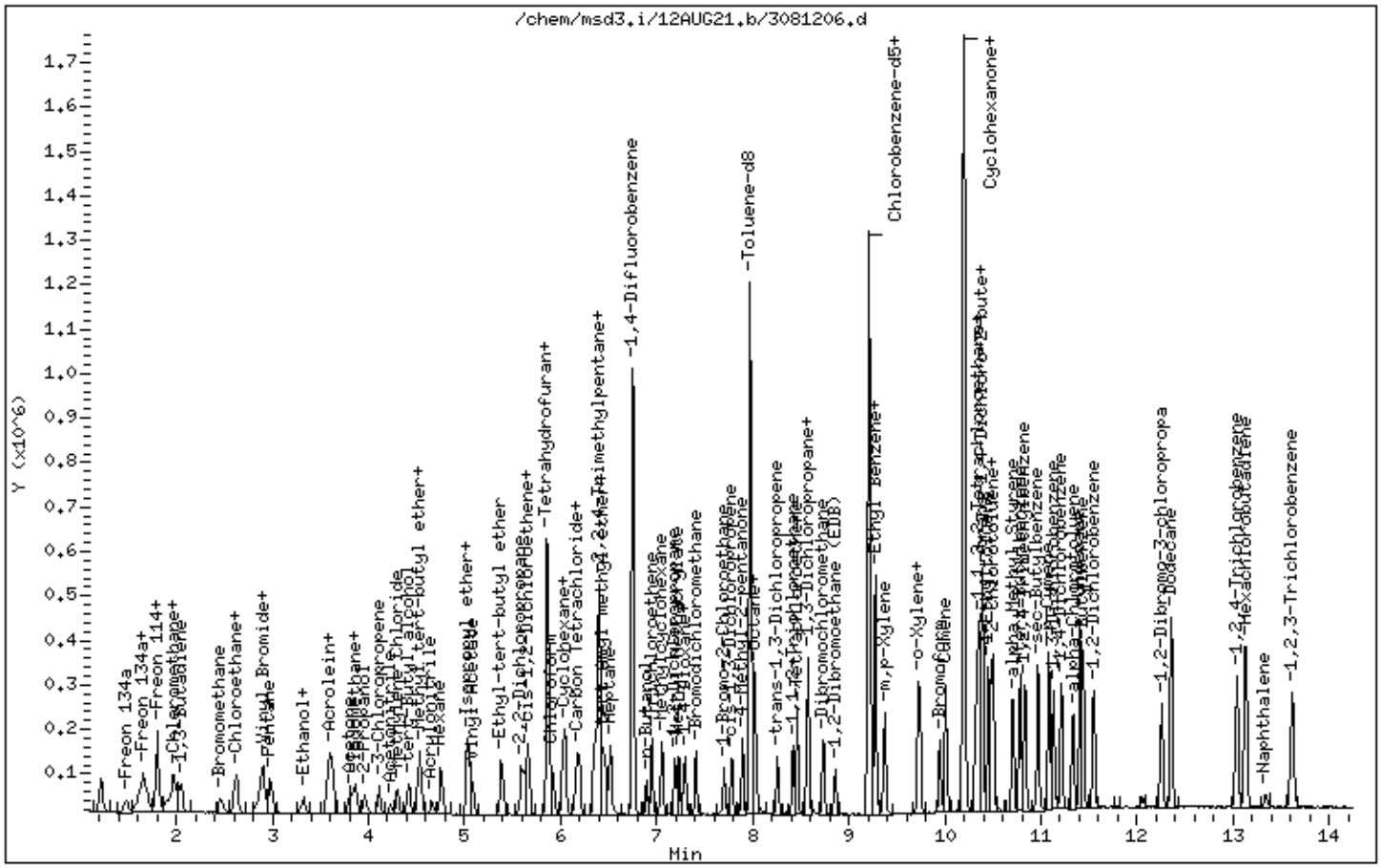
Instrument: msd3.i

Sample Info: 200ml 3018-2220

Operator: LD

Column phase: RTX-624

Column diameter: 0.25



US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msd3.i/12AUG21.b/3081217.d
Lab Smp Id: ICAL Level #7
Inj Date : 13-AUG-2021 00:09
Operator : gh Inst ID: msd3.i
Smp Info : 200ml #3018-2128
Misc Info : 5.0ppbv(5.0ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msd3.i/12AUG21.b/321q0812a.m
Meth Date : 13-Aug-2021 12:38 ugdc Quant Type: ISTD
Cal Date : 13-AUG-2021 00:09 Cal File: 3081217.d
Als bottle: 2 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT20spICAL.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 90 Bromochloromethane					CAS #: 74-97-5		
5.872	5.858 (1.000)	130	213482	25.0000		80.00- 120.00	100.00
5.872	5.858 (1.000)	128	168028			47.29- 107.29	78.71
5.858	5.858 (1.000)	49	334660			122.83- 182.83	156.76
* 108 1,4-Difluorobenzene					CAS #: 540-36-3		
6.750	6.750 (1.000)	114	784277	25.0000		80.00- 120.00	100.00
6.750	6.750 (1.000)	88	117918			0.00- 45.09	15.04
* 153 Chlorobenzene-d5					CAS #: 3114-55-4		
9.207	9.207 (1.000)	117	733807	25.0000		80.00- 120.00	100.00
9.207	9.207 (1.000)	82	394059			23.62- 83.62	53.70
3 Freon 143a					CAS #: 420-46-2		
1.535	1.520 (0.261)	65	22261	5.00000	4.874	80.00- 120.00	100.00
1.521	1.520 (0.259)	69	50627			217.09- 277.09	227.42
1.535	1.520 (0.261)	64	6266			0.00- 55.87	28.15
6 Propane					CAS #: 74-98-6		
1.619	1.618 (0.276)	43	11414	5.00000	5.121	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
6 Propane (continued)							
1.633	1.618 (0.278)	39	8791			41.62- 101.62	77.02
1.619	1.618 (0.276)	41	7463			22.97- 82.97	65.38
13 Freon 142b					CAS #: 75-68-3		
1.842	1.842 (0.314)	65	72455	5.00000	5.063	80.00- 120.00	100.00
1.842	1.842 (0.314)	45	18395			0.00- 58.17	25.39
36 1-Pentene					CAS #: 109-67-1		
2.920	2.920 (0.497)	55	40203	5.00000	4.934	80.00- 120.00	100.00(a)
2.920	2.920 (0.497)	42	54560			99.17- 159.17	135.71
40 Freon 123a					CAS #: 354-23-4		
3.423	3.423 (0.583)	117	51233	5.00000	5.087	80.00- 120.00	100.00(a)
3.423	3.423 (0.583)	67	65762			103.13- 163.13	128.36
41 Freon 123					CAS #: 306-83-2		
3.521	3.521 (0.600)	83	72400	5.00000	5.105	80.00- 120.00	100.00
3.521	3.521 (0.600)	133	16301			0.00- 51.81	22.52
3.521	3.521 (0.600)	85	46879			37.13- 97.13	64.75
55 Cyclopentene					CAS #: 142-29-0		
4.123	4.123 (0.702)	67	72818	5.00000	5.048	80.00- 120.00	100.00
4.123	4.123 (0.702)	68	27291			7.90- 67.90	37.48
4.123	4.123 (0.702)	53	19523			0.00- 54.87	26.81
56 Methyl Acetate					CAS #: 79-20-9		
4.165	4.151 (0.709)	43	77180	5.00000	4.969	80.00- 120.00	100.00(a)
4.165	4.151 (0.709)	74	13165			0.00- 47.15	17.06
74 Chloroprene					CAS #: 126-99-8		
5.102	5.088 (0.869)	53	63391	5.00000	4.891	80.00- 120.00	100.00
5.102	5.102 (0.869)	88	25786			12.33- 72.33	40.68
5.102	5.088 (0.869)	50	19839			0.00- 57.62	31.30
75 1-Propanol					CAS #: 71-23-8		
5.172	5.158 (0.881)	59	8670	5.00000	4.830	80.00- 120.00	100.00
5.158	5.158 (0.878)	42	8555			53.89- 113.89	98.67
5.158	5.158 (0.878)	41	4938			24.09- 84.09	56.96
88 Methyl Acrylate					CAS #: 96-33-3		
5.718	5.718 (0.974)	55	74515	5.00000	4.935	80.00- 120.00	100.00(a)
5.718	5.718 (0.974)	85	10565			0.00- 43.24	14.18
5.718	5.718 (0.974)	58	6758			0.00- 38.83	9.07
103 Isobutanol					CAS #: 78-83-1		
6.320	6.320 (1.076)	39	11713	5.00000	5.022	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
103 Isobutanol (continued)							
6.320	6.320 (1.076)	43	40059			327.69- 387.69	342.00
6.320	6.320 (1.076)	41	29859			237.56- 297.56	254.92
113 Ethyl acrylate					CAS #: 140-88-5		
7.036	7.036 (0.764)	99	6114	5.00000	5.027	80.00- 120.00	100.00
7.036	7.036 (0.764)	45	10010			124.67- 184.67	163.72
7.036	7.036 (0.764)	55	96182			1601.30-1661.30	1573.14
115 2-Pentanone					CAS #: 107-87-9		
7.136	7.129 (0.775)	43	117593	5.00000	4.880	80.00- 120.00	100.00
7.136	7.129 (0.775)	58	8941			0.00- 37.25	7.60
7.136	7.136 (0.775)	86	17669			0.00- 45.08	15.03
145 Butyl Acetate					CAS #: 123-86-4		
8.626	8.626 (1.278)	56	53293	5.00000	4.957	80.00- 120.00	100.00(a)
8.626	8.626 (1.278)	73	18844			5.16- 65.16	35.36
8.634	8.626 (1.279)	43	131803			214.00- 274.00	247.32
157 1,1,1,2-Tetrachloroethane					CAS #: 630-20-6		
9.300	9.300 (1.010)	131	59940	5.00000	4.758	80.00- 120.00	100.00
9.207	9.207 (1.000)	117	733807			38.22- 98.22	1224.24
9.293	9.293 (1.009)	95	22920			7.54- 67.54	38.24
166 2-Heptanone					CAS #: 110-43-0		
9.801	9.801 (1.669)	58	77790	5.00000	4.944	80.00- 120.00	100.00
9.801	9.801 (1.669)	43	139409			133.36- 193.36	179.21
172 D-Limonene					CAS #: 5989-27-5		
11.033	11.033 (1.198)	68	50149	5.00000	4.406	80.00- 120.00	100.00
11.033	11.033 (1.198)	93	36616			42.08- 102.08	73.01
186 4-Chlorotoluene					CAS #: 106-43-4		
10.582	10.582 (1.149)	126	53627	5.00000	4.851	80.00- 120.00	100.00
10.575	10.575 (1.149)	91	169965			305.94- 365.94	316.94
10.575	10.575 (1.149)	63	24457			15.44- 75.44	45.61
197 1,2,3-Trimethylbenzene					CAS #: 526-73-8		
11.212	11.212 (1.218)	120	69618	5.00000	4.826	80.00- 120.00	100.00(a)
11.212	11.212 (1.218)	105	165079			206.43- 266.43	237.12
11.212	11.212 (1.218)	77	19879			0.00- 58.29	28.55
205 Hexachloroethane					CAS #: 67-72-1		
11.735	11.728 (1.275)	201	34870	5.00000	4.322	80.00- 120.00	100.00
11.728	11.728 (1.274)	117	47661			109.77- 169.77	136.68

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
208 1,3,5-Trichlorobenzene					CAS #: 108-70-3		
12.387	12.387 (1.345)	180	108549	5.00000	4.881	80.00- 120.00	100.00
12.387	12.387 (1.345)	182	102960			65.79- 125.79	94.85
210 alpha-Pinene					CAS #: 80-56-8		
9.973	9.973 (1.083)	93	110681	5.00000	4.782	80.00- 120.00	100.00
9.966	9.973 (1.082)	77	34990			0.13- 60.13	31.61
214 beta-Pinene					CAS #: 127-91-3		
10.560	10.560 (1.147)	93	77837	5.00000	4.617	80.00- 120.00	100.00
10.575	10.575 (1.149)	91	169965			145.95- 205.95	218.36

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd3.i
Lab File ID: 3081217.d
Lab Smp Id: ICAL Level #7
Analysis Type: VOA
Quant Type: ISTD
Operator: gh
Method File: /chem/msd3.i/12AUG21.b/321q0812a.m
Misc Info: 5.0ppbv(5.0ppbv)

Calibration Date: 12-AUG-2021
Calibration Time: 19:05
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	229903	137942	321864	213482	-7.14
108 1,4-Difluorobenze	822152	493291	1151013	784277	-4.61
153 Chlorobenzene-d5	775771	465463	1086079	733807	-5.41

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.86	5.53	6.19	5.87	0.24
108 1,4-Difluorobenze	6.75	6.42	7.08	6.75	-0.00
153 Chlorobenzene-d5	9.21	8.88	9.54	9.21	-0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msd3.i/12AUG21.b/3081217.d

Date : 13-AUG-2021 00:09

Client ID:

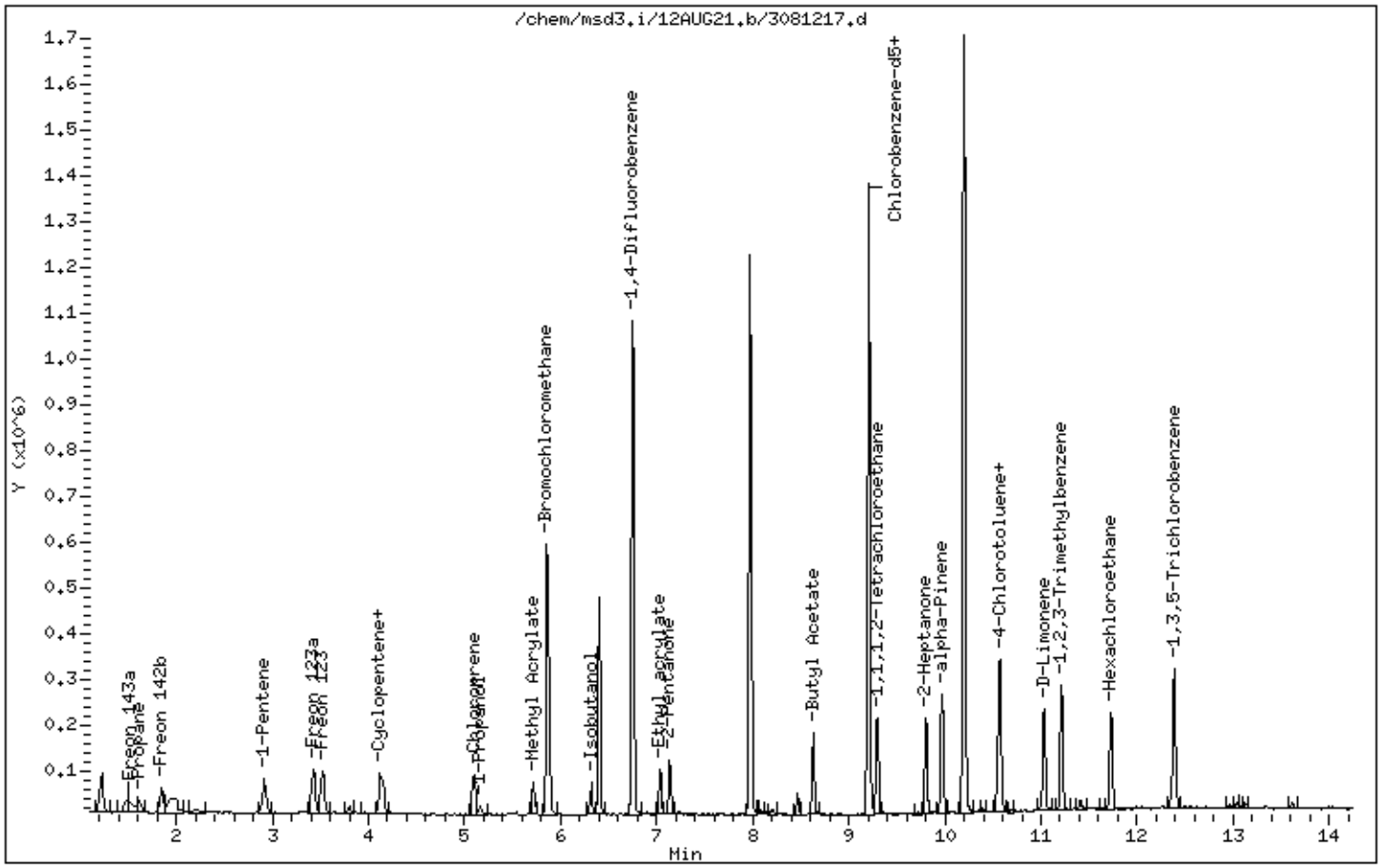
Instrument: msd3.i

Sample Info: 200ml #3018-2128

Operator: gh

Column phase: RTX-624

Column diameter: 0.25



US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msd3.i/12AUG21.b/3081207.d
Lab Smp Id: ICAL Level #8
Inj Date : 12-AUG-2021 18:37
Operator : LD Inst ID: msd3.i
Smp Info : 20ml 3018-2213
Misc Info : 20ppbv(200ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msd3.i/12AUG21.b/321q0812a.m
Meth Date : 13-Aug-2021 08:08 ugdc Quant Type: ISTD
Cal Date : 12-AUG-2021 18:37 Cal File: 3081207.d
Als bottle: 13 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT20ICAL.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
4 Freon 134a					CAS #: 811-97-2		
1.562	1.577 (0.267)	83	130288	20.0000	19.713	80.00- 120.00	100.00
1.562	1.577 (0.267)	69	106559			50.75- 110.75	81.79
1.562	1.577 (0.267)	51	27718			0.00- 49.76	21.27
5 Propylene					CAS #: 115-07-1		
1.618	1.619 (0.276)	41	126615	20.0000	19.777	80.00- 120.00	100.00
1.618	1.619 (0.276)	42	85109			36.66- 96.66	67.22
1.618	1.619 (0.276)	39	94986			44.11- 104.11	75.02
7 1,1-Difluoroethane					CAS #: 75-37-6		
1.632	1.633 (0.279)	65	79119	20.0000	19.458	80.00- 120.00	100.00
1.632	1.633 (0.279)	51	206701			217.13- 277.13	261.25
1.632	1.633 (0.279)	47	62553			48.77- 108.77	79.06
8 Freon 12					CAS #: 75-71-8		
1.646	1.661 (0.281)	85	347963	20.0000	19.376	80.00- 120.00	100.00
1.646	1.661 (0.281)	87	108732			2.35- 62.35	31.25
9 Chlorodifluoromethane					CAS #: 75-45-6		
1.688	1.689 (0.288)	67	39433	20.0000	16.717	80.00- 120.00	100.00

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
9 Chlorodifluoromethane (continued)							
1.688	1.689 (0.288)	51	273129			710.68- 770.68	692.64
10 Freon 114					CAS #: 76-14-2		
1.786	1.800 (0.305)	135	262123	20.0000	19.094	80.00- 120.00	100.00
1.786	1.800 (0.305)	137	83887			2.06- 62.06	32.00
12 Isobutane					CAS #: 75-28-5		
1.800	1.800 (0.307)	43	285782	20.0000	19.768	80.00- 120.00	100.00
1.800	1.800 (0.307)	42	94188			2.70- 62.70	32.96
1.800	1.800 (0.307)	58	9934			0.00- 33.44	3.48
15 Chloromethane					CAS #: 74-87-3		
1.884	1.884 (0.322)	50	150485	20.0000	19.054	80.00- 120.00	100.00
1.884	1.884 (0.322)	52	50750			3.38- 63.38	33.72
18 Butane					CAS #: 106-97-8		
1.968	1.968 (0.336)	58	34410	20.0000	17.822	80.00- 120.00	100.00
1.968	1.968 (0.336)	43	260570			760.51- 820.51	757.25
19 Vinyl Chloride					CAS #: 75-01-4		
2.010	2.010 (0.343)	62	148630	20.0000	17.031	80.00- 120.00	100.00
2.010	2.010 (0.343)	64	45366			0.32- 60.32	30.52
20 1,3-Butadiene					CAS #: 106-99-0		
2.038	2.038 (0.348)	54	127918	20.0000	14.938	80.00- 120.00	100.00
2.038	2.038 (0.348)	39	137610			72.94- 132.94	107.58
24 Bromomethane					CAS #: 74-83-9		
2.458	2.458 (0.420)	94	111026	20.0000	16.973	80.00- 120.00	100.00
2.458	2.458 (0.420)	96	105398			63.18- 123.18	94.93
30 Chloroethane					CAS #: 75-00-3		
2.584	2.598 (0.441)	64	74459	20.0000	19.527	80.00- 120.00	100.00
2.584	2.598 (0.441)	66	23124			1.10- 61.10	31.06
2.584	2.598 (0.441)	49	26622			5.46- 65.46	35.75
31 Isopentane					CAS #: 78-78-4		
2.626	2.626 (0.448)	43	198409	20.0000	20.260	80.00- 120.00	100.00
2.626	2.626 (0.448)	57	128769			36.12- 96.12	64.90
32 Vinyl Bromide					CAS #: 593-60-2		
2.836	2.836 (0.484)	106	134372	20.0000	19.476	80.00- 120.00	100.00
2.836	2.836 (0.484)	108	125101			63.01- 123.01	93.10
33 Freon 11					CAS #: 75-69-4		
2.892	2.892 (0.494)	101	391269	20.0000	19.528	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
33 Freon 11 (continued)							
2.892	2.892 (0.494)	103	252754			36.55- 96.55	64.60
34 Dichlorofluoromethane					CAS #: 75-43-4		
2.892	2.906 (0.494)	67	298800	20.0000	19.568	80.00- 120.00	100.00
2.892	2.906 (0.494)	69	96314			1.82- 61.82	32.23
35 Pentane					CAS #: 109-66-0		
2.976	2.976 (0.508)	43	305371	20.0000	18.731	80.00- 120.00	100.00
2.976	2.976 (0.508)	57	47341			0.00- 45.52	15.50
2.976	2.976 (0.508)	72	25656			0.00- 38.25	8.40
39 Ethanol					CAS #: 64-17-5		
3.269	3.284 (0.558)	46	30176	20.0000	18.304	80.00- 120.00	100.00
3.269	3.284 (0.558)	45	67779			213.29- 273.29	224.61
38 Ethyl Ether					CAS #: 60-29-7		
3.325	3.326 (0.568)	74	63269	20.0000	18.798	80.00- 120.00	100.00
3.325	3.326 (0.568)	59	110145			143.51- 203.51	174.09
3.325	3.326 (0.568)	45	103518			143.53- 203.53	163.62
42 Acrolein					CAS #: 107-02-8		
3.591	3.591 (0.613)	55	48570	20.0000	19.433	80.00- 120.00	100.00
3.591	3.591 (0.613)	56	67873			104.02- 164.02	139.74
43 Freon 113					CAS #: 76-13-1		
3.591	3.591 (0.613)	151	260052	20.0000	19.521	80.00- 120.00	100.00
3.591	3.591 (0.613)	153	165286			34.03- 94.03	63.56
3.591	3.591 (0.613)	101	312174			89.72- 149.72	120.04
44 1,1-Dichloroethene					CAS #: 75-35-4		
3.619	3.619 (0.618)	96	136490	20.0000	18.176	80.00- 120.00	100.00
3.619	3.619 (0.618)	98	87725			32.85- 92.85	64.27
3.619	3.619 (0.618)	61	272521			165.91- 225.91	199.66
47 Acetone					CAS #: 67-64-1		
3.787	3.787 (0.646)	58	83140	20.0000	19.572	80.00- 120.00	100.00
3.787	3.787 (0.646)	43	291609			325.09- 385.09	350.74
49 Iodomethane					CAS #: 74-88-4		
3.829	3.829 (0.654)	142	391689	20.0000	24.626	80.00- 120.00	100.00
3.829	3.829 (0.654)	127	182665			16.98- 76.98	46.64
48 Carbon Disulfide					CAS #: 75-15-0		
3.857	3.857 (0.658)	76	373525	20.0000	19.675	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
52 2-Propanol					CAS #: 67-63-0		
3.955	3.941 (0.675)	45	316574	20.0000	19.493	80.00- 120.00	100.00
3.955	3.941 (0.675)	43	65403			0.00- 49.76	20.66
54 3-Chloropropene					CAS #: 107-05-1		
4.109	4.109 (0.701)	76	62614	20.0000	19.035	80.00- 120.00	100.00
4.109	4.109 (0.701)	41	225950			344.92- 404.92	360.86
57 Acetonitrile					CAS #: 75-05-8		
4.221	4.221 (0.721)	41	140655	20.0000	19.737	80.00- 120.00	100.00
4.221	4.221 (0.721)	40	72924			24.08- 84.08	51.85
4.221	4.221 (0.721)	38	16703			0.00- 42.84	11.88
59 Methylene Chloride					CAS #: 75-09-2		
4.291	4.291 (0.732)	49	210058	20.0000	19.802	80.00- 120.00	100.00
4.291	4.291 (0.732)	84	120534			27.95- 87.95	57.38
4.291	4.291 (0.732)	51	63435			0.78- 60.78	30.20
62 tert-Butyl alcohol					CAS #: 75-65-0		
4.417	4.417 (0.754)	59	368177	20.0000	19.862	80.00- 120.00	100.00
4.417	4.417 (0.754)	41	87210			0.00- 52.58	23.69
4.417	4.417 (0.754)	57	42679			0.00- 40.94	11.59
63 Methyl tert-butyl ether					CAS #: 1634-04-4		
4.515	4.515 (0.771)	73	402445	20.0000	19.845	80.00- 120.00	100.00
4.515	4.515 (0.771)	57	113834			0.00- 58.27	28.29
4.515	4.515 (0.771)	41	117068			0.00- 58.78	29.09
64 trans-1,2-Dichloroethene					CAS #: 156-60-5		
4.543	4.543 (0.775)	98	91867	20.0000	19.528	80.00- 120.00	100.00
4.543	4.543 (0.775)	61	247690			236.85- 296.85	269.62
4.543	4.543 (0.775)	96	142703			126.72- 186.72	155.34
66 Acrylonitrile					CAS #: 107-13-1		
4.655	4.655 (0.795)	52	108695	20.0000	16.944	80.00- 120.00	100.00
4.655	4.655 (0.795)	53	128479			88.92- 148.92	118.20
67 Hexane					CAS #: 110-54-3		
4.753	4.753 (0.811)	57	262435	20.0000	19.195	80.00- 120.00	100.00
4.753	4.753 (0.811)	43	175608			36.74- 96.74	66.91
4.753	4.753 (0.811)	86	33620			0.00- 43.22	12.81
72 Isopropyl ether					CAS #: 108-20-3		
5.018	5.019 (0.857)	45	609179	20.0000	20.389	80.00- 120.00	100.00
5.032	5.033 (0.859)	87	129258			0.00- 51.44	21.22
5.018	5.019 (0.857)	59	66873			0.00- 40.81	10.98

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
71 1,1-Dichloroethane					CAS #: 75-34-3		
5.046	5.047 (0.861)	63	276113	20.0000	18.956	80.00- 120.00	100.00
5.046	5.047 (0.861)	65	81644			0.56- 60.56	29.57
73 Vinyl Acetate					CAS #: 108-05-4		
5.088	5.089 (0.869)	86	33416	20.0000	18.746	80.00- 120.00	100.00
5.074	5.075 (0.866)	43	523676			1473.01-1533.01	1567.14
79 Ethyl-tert-butyl ether					CAS #: 637-92-3		
5.382	5.382 (0.919)	59	553303	20.0000	20.429	80.00- 120.00	100.00
5.382	5.382 (0.919)	87	188809			4.28- 64.28	34.12
5.382	5.382 (0.919)	41	114855			0.00- 49.94	20.76
84 2,2-Dichloropropane					CAS #: 594-20-7		
5.592	5.592 (0.955)	77	272811	20.0000	19.940	80.00- 120.00	100.00
5.592	5.592 (0.955)	79	90246			2.43- 62.43	33.08
5.592	5.592 (0.955)	97	62148			0.00- 53.03	22.78
85 cis-1,2-Dichloroethene					CAS #: 156-59-2		
5.620	5.620 (0.959)	98	95725	20.0000	19.226	80.00- 120.00	100.00
5.620	5.620 (0.959)	96	145258			121.91- 181.91	151.75
5.620	5.620 (0.959)	61	330522			313.72- 373.72	345.28
86 2-Butanone					CAS #: 78-93-3		
5.648	5.648 (0.964)	72	71438	20.0000	19.712	80.00- 120.00	100.00
5.662	5.662 (0.967)	43	813326			1111.25-1171.25	1138.51
5.648	5.648 (0.964)	57	29859			11.22- 71.22	41.80
87 Ethyl Acetate					CAS #: 141-78-6		
5.662	5.662 (0.967)	45	64444	20.0000	18.539	80.00- 120.00	100.00
5.620	5.620 (0.959)	61	330522			469.17- 529.17	512.88
5.662	5.662 (0.967)	70	39111			29.38- 89.38	60.69
89 Tetrahydrofuran					CAS #: 109-99-9		
5.858	5.858 (1.000)	42	200275	20.0000	17.840	80.00- 120.00	100.00
5.858	5.858 (1.000)	71	62708			0.09- 60.09	31.31
5.858	5.858 (1.000)	72	67895			2.13- 62.13	33.90
* 90 Bromochloromethane					CAS #: 74-97-5		
5.858	5.858 (1.000)	130	221729	25.0000		80.00- 120.00	100.00
5.858	5.858 (1.000)	128	174589			47.29- 107.29	78.74
5.858	5.858 (1.000)	49	350076			122.83- 182.83	157.88
92 Chloroform					CAS #: 67-66-3		
5.914	5.914 (1.010)	83	303993	20.0000	19.006	80.00- 120.00	100.00
5.914	5.914 (1.010)	85	196640			34.29- 94.29	64.69

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
94 Cyclohexane					CAS #: 110-82-7		
6.026	6.026 (1.029)	84	189967	20.0000	19.384	80.00- 120.00	100.00
6.026	6.026 (1.029)	56	276675			116.85- 176.85	145.64
6.026	6.026 (1.029)	41	168575			57.77- 117.77	88.74
96 1,1,1-Trichloroethane					CAS #: 71-55-6		
6.054	6.054 (1.033)	97	337429	20.0000	19.423	80.00- 120.00	100.00
6.054	6.054 (1.033)	99	217725			34.55- 94.55	64.52
97 Carbon Tetrachloride					CAS #: 56-23-5		
6.166	6.166 (1.053)	119	351026	20.0000	21.097	80.00- 120.00	100.00
6.166	6.166 (1.053)	117	368067			74.20- 134.20	104.85
99 1,1-Dichloropropene					CAS #: 563-58-6		
6.194	6.194 (0.918)	110	80582	20.0000	19.384	80.00- 120.00	100.00
6.194	6.194 (0.918)	75	208773			229.39- 289.39	259.08
101 2,2,4-Trimethylpentane					CAS #: 540-84-1		
6.362	6.348 (1.086)	57	860388	20.0000	19.705	80.00- 120.00	100.00
6.362	6.348 (1.086)	56	271651			1.14- 61.14	31.57
6.362	6.348 (1.086)	41	254071			0.00- 59.12	29.53
102 Benzene					CAS #: 71-43-2		
6.376	6.376 (0.945)	78	399034	20.0000	18.834	80.00- 120.00	100.00
6.376	6.376 (0.945)	77	94526			0.00- 53.48	23.69
$ 104 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
6.404	6.404 (1.093)	65	306815	25.0000	24.850	80.00- 120.00	100.00
6.404	6.404 (1.093)	67	157360			20.51- 80.51	51.29
105 tert-Amyl methyl ether					CAS #: 994-05-8		
6.446	6.446 (0.955)	87	111415	20.0000	20.512	80.00- 120.00	100.00
6.446	6.446 (0.955)	73	435297			363.80- 423.80	390.70
6.446	6.432 (0.955)	55	143153			97.13- 157.13	128.49
106 1,2-Dichloroethane					CAS #: 107-06-2		
6.460	6.474 (0.957)	62	240116	20.0000	18.996	80.00- 120.00	100.00
6.474	6.474 (0.959)	64	74519			1.41- 61.41	31.03
107 Heptane					CAS #: 142-82-5		
6.516	6.516 (0.965)	71	179830	20.0000	21.812	80.00- 120.00	100.00
6.516	6.516 (0.965)	43	389803			146.45- 206.45	216.76
6.516	6.516 (0.965)	57	202512			90.20- 150.20	112.61
* 108 1,4-Difluorobenzene					CAS #: 540-36-3		
6.750	6.750 (1.000)	114	794129	25.0000		80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
* 108 1,4-Difluorobenzene (continued)							
6.750	6.750 (1.000)	88	120572			0.00- 45.09	15.18
110 n-Butanol					CAS #: 71-36-3		
6.886	6.893 (1.020)	56	137190	20.0000	19.021	80.00- 120.00	100.00
6.886	6.886 (1.020)	41	105201			44.46- 104.46	76.68
6.893	6.886 (1.021)	43	81058			28.14- 88.14	59.08
111 Trichloroethene					CAS #: 79-01-6		
6.943	6.943 (1.029)	95	197579	20.0000	19.204	80.00- 120.00	100.00
6.950	6.950 (1.030)	130	214698			79.68- 139.68	108.66
6.943	6.943 (1.029)	97	127836			34.74- 94.74	64.70
127 Methylcyclohexane					CAS #: 108-87-2		
7.050	7.051 (1.045)	83	260112	20.0000	20.141	80.00- 120.00	100.00
7.050	7.051 (1.045)	98	122406			17.10- 77.10	47.06
7.050	7.051 (1.045)	55	261464			71.11- 131.11	100.52
114 1,2-Dichloropropane					CAS #: 78-87-5		
7.187	7.187 (1.065)	63	180599	20.0000	19.072	80.00- 120.00	100.00
7.187	7.187 (1.065)	62	126045			40.55- 100.55	69.79
7.187	7.187 (1.065)	41	120699			36.07- 96.07	66.83
116 Methyl Methacrylate					CAS #: 80-62-6		
7.230	7.230 (0.785)	69	162802	20.0000	20.084	80.00- 120.00	100.00
7.230	7.230 (0.785)	41	303061			160.67- 220.67	186.15
7.230	7.230 (0.785)	100	65213			11.33- 71.33	40.06
117 1,4-Dioxane					CAS #: 123-91-1		
7.273	7.273 (1.077)	88	117425	20.0000	19.934	80.00- 120.00	100.00
7.273	7.273 (1.077)	58	99967			56.19- 116.19	85.13
7.273	7.273 (1.077)	57	32237			0.00- 59.32	27.45
118 Dibromomethane					CAS #: 74-95-3		
7.294	7.294 (0.792)	174	185223	20.0000	19.215	80.00- 120.00	100.00
7.294	7.294 (0.792)	93	182079			66.88- 126.88	98.30
7.294	7.294 (0.792)	95	150613			49.90- 109.90	81.31
122 Bromodichloromethane					CAS #: 75-27-4		
7.409	7.409 (1.098)	83	330071	20.0000	19.253	80.00- 120.00	100.00
7.409	7.409 (1.098)	85	210848			33.85- 93.85	63.88
151 1-Bromo-2-Chloroethane					CAS #: 107-04-0		
7.702	7.702 (1.141)	63	338410	20.0000	20.118	80.00- 120.00	100.00
7.702	7.702 (1.141)	65	101956			0.05- 60.05	30.13
7.702	7.702 (1.141)	144	37283			0.00- 40.91	11.02

				AMOUNTS				
					CAL-AMT	ON-COL		
	RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
	==	====== ========	====	========	=======	=======	==========	=====
	126 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
	7.781	7.781 (1.153)	75	253174	20.0000	19.432	80.00- 120.00	100.00
	7.781	7.781 (1.153)	77	81903			1.50- 61.50	32.35
	7.781	7.781 (1.153)	39	187537			43.12- 103.12	74.07
	131 4-Methyl-2-pentanone					CAS #: 108-10-1		
	7.889	7.889 (1.169)	58	174888	20.0000	19.045	80.00- 120.00	100.00
	7.889	7.889 (1.169)	43	487997			247.84- 307.84	279.03
	7.889	7.889 (1.169)	85	66742			8.73- 68.73	38.16
$	134 Toluene-d8					CAS #: 2037-26-5		
	7.967	7.967 (1.180)	98	798120	25.0000	24.869	80.00- 120.00	100.00
	7.967	7.967 (1.180)	70	91933			0.00- 42.00	11.52
	7.967	7.967 (1.180)	100	540418			37.14- 97.14	67.71
	136 Octane					CAS #: 111-65-9		
	8.010	8.010 (1.187)	57	187466	20.0000	19.803	80.00- 120.00	100.00
	8.010	8.010 (1.187)	85	183444			67.77- 127.77	97.85
	8.010	8.010 (1.187)	43	484299			225.27- 285.27	258.34
	137 Toluene					CAS #: 108-88-3		
	8.025	8.025 (1.189)	91	556342	20.0000	19.881	80.00- 120.00	100.00
	8.025	8.025 (1.189)	92	323103			28.13- 88.13	58.08
	139 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
	8.254	8.254 (0.897)	75	251680	20.0000	19.537	80.00- 120.00	100.00
	8.254	8.254 (0.897)	77	79307			1.93- 61.93	31.51
	8.254	8.254 (0.897)	39	173511			38.37- 98.37	68.94
	141 1,1,2-Trichloroethane					CAS #: 79-00-5		
	8.419	8.419 (0.914)	97	191144	20.0000	19.853	80.00- 120.00	100.00
	8.419	8.419 (0.914)	99	117027			31.66- 91.66	61.22
	8.419	8.419 (0.914)	83	163372			55.24- 115.24	85.47
	142 Tetrachloroethene					CAS #: 127-18-4		
	8.462	8.462 (0.919)	166	277979	20.0000	19.800	80.00- 120.00	100.00
	8.462	8.462 (0.919)	129	220497			48.51- 108.51	79.32
	8.462	8.462 (0.919)	131	210231			45.64- 105.64	75.63
	144 1,3-Dichloropropane					CAS #: 142-28-9		
	8.569	8.569 (1.270)	76	264961	20.0000	19.014	80.00- 120.00	100.00
	8.569	8.569 (1.270)	41	335056			96.83- 156.83	126.45
	8.569	8.569 (1.270)	78	85712			2.46- 62.46	32.35
	143 2-Hexanone					CAS #: 591-78-6		
	8.576	8.576 (0.932)	58	272182	20.0000	20.062	80.00- 120.00	100.00

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
143 2-Hexanone (continued)							
8.576	8.576 (0.932)	43	551466			169.24- 229.24	202.61
8.576	8.576 (0.932)	100	50863			0.00- 48.72	18.69
146 Dibromochloromethane					CAS #: 124-48-1		
8.734	8.734 (0.949)	129	388562	20.0000	20.462	80.00- 120.00	100.00
8.734	8.734 (0.949)	127	300014			47.05- 107.05	77.21
148 1,2-Dibromoethane (EDB)					CAS #: 106-93-4		
8.856	8.856 (0.962)	107	306701	20.0000	19.736	80.00- 120.00	100.00
8.856	8.856 (0.962)	109	288019			64.74- 124.74	93.91
* 153 Chlorobenzene-d5					CAS #: 3114-55-4		
9.207	9.207 (1.000)	117	746118	25.0000		80.00- 120.00	100.00
9.207	9.207 (1.000)	82	398460			23.62- 83.62	53.40
154 Chlorobenzene					CAS #: 108-90-7		
9.235	9.235 (1.003)	112	477797	20.0000	19.975	80.00- 120.00	100.00
9.235	9.235 (1.003)	114	152253			2.19- 62.19	31.87
9.235	9.228 (1.003)	77	258791			23.66- 83.66	54.16
155 Ethyl Benzene					CAS #: 100-41-4		
9.278	9.278 (1.008)	106	240325	20.0000	20.341	80.00- 120.00	100.00
9.278	9.278 (1.008)	91	747035			282.43- 342.43	310.84
156 Nonane					CAS #: 111-84-2		
9.278	9.278 (1.008)	43	502199	20.0000	20.876	80.00- 120.00	100.00
9.278	9.278 (1.008)	57	427000			55.73- 115.73	85.03
9.278	9.278 (1.008)	85	142742			0.00- 58.99	28.42
158 m,p-Xylene					CAS #: 108-38-3		
9.371	9.371 (1.018)	106	295144	20.0000	20.382	80.00- 120.00	100.00
9.371	9.371 (1.018)	91	592422			169.66- 229.66	200.72
164 o-Xylene					CAS #: 95-47-6		
9.722	9.722 (1.056)	106	281675	20.0000	20.591	80.00- 120.00	100.00
9.722	9.722 (1.056)	91	597422			180.55- 240.55	212.10
165 Styrene					CAS #: 100-42-5		
9.737	9.737 (1.058)	104	481116	20.0000	20.303	80.00- 120.00	100.00
9.737	9.737 (1.058)	78	237166			18.65- 78.65	49.29
167 Bromoform					CAS #: 75-25-2		
9.944	9.944 (1.080)	173	369631	20.0000	20.562	80.00- 120.00	100.00
9.944	9.944 (1.080)	171	189171			21.64- 81.64	51.18

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
168 Cumene					CAS #: 98-82-8		
10.009	10.009 (1.087)	105	898655	20.0000	20.545	80.00- 120.00	100.00
10.009	10.009 (1.087)	120	242756			0.00- 57.04	27.01
10.009	10.009 (1.087)	51	112740			0.00- 41.95	12.55
169 Cyclohexanone					CAS #: 108-94-1		
10.188	10.188 (1.107)	55	366425	20.0000	17.783	80.00- 120.00	100.00
10.188	10.188 (1.107)	98	138486			8.59- 68.59	37.79
10.188	10.188 (1.107)	42	280835			46.18- 106.18	76.64
$ 170 4-Bromofluorobenzene					CAS #: 460-00-4		
10.202	10.202 (1.108)	174	494352	25.0000	25.235	80.00- 120.00	100.00
10.195	10.195 (1.107)	95	602471			92.25- 152.25	121.87
10.202	10.202 (1.108)	176	458747			63.07- 123.07	92.80
175 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
10.317	10.317 (1.121)	83	428241	20.0000	19.975	80.00- 120.00	100.00
10.317	10.317 (1.121)	85	275598			34.44- 94.44	64.36
177 Bromobenzene					CAS #: 108-86-1		
10.345	10.338 (1.124)	156	289453	20.0000	20.850	80.00- 120.00	100.00
10.345	10.346 (1.124)	158	282524			67.20- 127.20	97.61
10.338	10.338 (1.123)	77	491124			131.36- 191.36	169.67
178 Propylbenzene					CAS #: 103-65-1		
10.360	10.360 (1.125)	120	255211	20.0000	20.304	80.00- 120.00	100.00
10.360	10.360 (1.125)	91	1068556	20.0000	20.504	385.23- 445.23	418.70
10.360	10.360 (1.125)	105	41445			0.00- 46.02	16.24
181 trans-1,4-Dichloro-2-butene					CAS #: 110-57-6		
10.374	10.374 (1.127)	53	109623	20.0000	19.721	80.00- 120.00	100.00
10.374	10.374 (1.127)	89	74770			40.38- 100.38	68.21
10.381	10.381 (1.128)	75	454626			394.61- 454.61	414.72
179 1,2,3-Trichloropropane					CAS #: 96-18-4		
10.381	10.389 (1.128)	110	138212	20.0000	20.044	80.00- 120.00	100.00
10.381	10.381 (1.128)	75	454626			301.57- 361.57	328.93
10.381	10.381 (1.128)	61	116932			54.32- 114.32	84.60
182 Decane					CAS #: 124-18-5		
10.396	10.396 (1.129)	57	562477	20.0000	18.940	80.00- 120.00	100.00
10.396	10.396 (1.129)	71	186547			2.98- 62.98	33.17
10.396	10.396 (1.129)	142	27798			0.00- 35.12	4.94
183 4-Ethyltoluene					CAS #: 622-96-8		
10.453	10.453 (1.135)	120	275451	20.0000	20.246	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
183 4-Ethyltoluene (continued)							
10.453	10.453 (1.135)	105	896910			295.29- 355.29	325.62
184 2-Chlorotoluene					CAS #: 95-49-8		
10.482	10.482 (1.138)	126	230076	20.0000	20.380	80.00- 120.00	100.00
10.482	10.482 (1.138)	91	812550			325.01- 385.01	353.17
10.482	10.482 (1.138)	65	116110			19.90- 79.90	50.47
185 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
10.503	10.503 (1.141)	120	391009	20.0000	20.797	80.00- 120.00	100.00
10.503	10.503 (1.141)	105	798920			176.14- 236.14	204.32
188 alpha Methyl Styrene					CAS #: 98-83-9		
10.711	10.704 (1.163)	118	391530	20.0000	21.191	80.00- 120.00	100.00
10.704	10.704 (1.163)	103	221279			26.69- 86.69	56.52
189 tert-Butylbenzene					CAS #: 98-06-6		
10.782	10.783 (1.171)	119	744340	20.0000	21.001	80.00- 120.00	100.00
10.782	10.783 (1.171)	134	182727			0.00- 54.52	24.55
10.782	10.783 (1.171)	91	488914			34.68- 94.68	65.68
190 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
10.833	10.833 (1.177)	105	757744	20.0000	20.708	80.00- 120.00	100.00
10.833	10.833 (1.177)	120	353227			17.12- 77.12	46.62
192 sec-Butylbenzene					CAS #: 135-98-8		
10.969	10.969 (1.191)	134	235438	20.0000	20.006	80.00- 120.00	100.00
10.969	10.969 (1.191)	105	1104177			438.96- 498.96	468.99
10.969	10.969 (1.191)	91	177392			44.37- 104.37	75.35
194 p-Cymene					CAS #: 99-87-6		
11.083	11.083 (1.204)	119	983409	20.0000	20.380	80.00- 120.00	100.00
11.083	11.083 (1.204)	134	266741			0.00- 56.91	27.12
11.083	11.083 (1.204)	91	231847			0.00- 53.86	23.58
195 1,3-Dichlorobenzene					CAS #: 541-73-1		
11.133	11.134 (1.209)	146	535607	20.0000	20.507	80.00- 120.00	100.00
11.133	11.134 (1.209)	148	338320			33.78- 93.78	63.17
11.133	11.134 (1.209)	111	218207			11.40- 71.40	40.74
196 1,4-Dichlorobenzene					CAS #: 106-46-7		
11.212	11.212 (1.218)	146	539373	20.0000	20.250	80.00- 120.00	100.00
11.212	11.212 (1.218)	148	340304			33.73- 93.73	63.09
11.212	11.212 (1.218)	111	210534			9.40- 69.40	39.03
199 alpha-Chlorotoluene					CAS #: 100-44-7		
11.334	11.334 (1.231)	91	732078	20.0000	20.364	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
199 alpha-Chlorotoluene (continued)							
11.334	11.334 (1.231)	126	165252			0.00- 52.58	22.57
201 Undecane					CAS #: 1120-21-4		
11.406	11.406 (1.239)	57	654959	20.0000	20.127	80.00- 120.00	100.00
11.406	11.406 (1.239)	43	601282			62.03- 122.03	91.80
202 Butylbenzene					CAS #: 104-51-8		
11.434	11.434 (1.242)	134	261602	20.0000	20.240	80.00- 120.00	100.00
11.434	11.434 (1.242)	91	912916			322.91- 382.91	348.97
11.434	11.434 (1.242)	92	479550			155.43- 215.43	183.31
204 1,2-Dichlorobenzene					CAS #: 95-50-1		
11.549	11.549 (1.254)	146	513605	20.0000	20.283	80.00- 120.00	100.00
11.549	11.549 (1.254)	148	325783			33.66- 93.66	63.43
11.549	11.549 (1.254)	111	214722			12.36- 72.36	41.81
206 1,2-Dibromo-3-chloropropane					CAS #: 96-12-8		
12.258	12.258 (1.331)	157	315796	20.0000	20.285	80.00- 120.00	100.00
12.258	12.258 (1.331)	75	274391			56.77- 116.77	86.89
12.258	12.258 (1.331)	155	244395			48.17- 108.17	77.39
207 Dodecane					CAS #: 112-40-3		
12.358	12.358 (1.342)	57	712125	24.7200	24.862	80.00- 120.00	100.00
12.358	12.358 (1.342)	43	626377			56.62- 116.62	87.96
213 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
13.039	13.039 (1.416)	180	488599	25.1800	24.740	80.00- 120.00	100.00
13.039	13.039 (1.416)	182	470108			64.88- 124.88	96.22
215 Hexachlorobutadiene					CAS #: 87-68-3		
13.132	13.132 (1.426)	225	371319	25.7400	26.126	80.00- 120.00	100.00
13.132	13.132 (1.426)	223	235844			33.46- 93.46	63.52
216 Naphthalene					CAS #: 91-20-3		
13.340	13.340 (1.449)	128	128024	2.54000	2.335	80.00- 120.00	100.00
13.340	13.340 (1.449)	127	17802			0.00- 43.71	13.91
222 1,2,3-Trichlorobenzene					CAS #: 87-61-6		
13.619	13.619 (1.479)	180	483877	26.6200	26.398	80.00- 120.00	100.00
13.612	13.619 (1.478)	182	459600			66.23- 126.23	94.98
13.612	13.612 (1.478)	145	171343			5.93- 65.93	35.41

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd3.i
Lab File ID: 3081207.d
Lab Smp Id: ICAL Level #8
Analysis Type: VOA
Quant Type: ISTD
Operator: LD
Method File: /chem/msd3.i/12AUG21.b/321q0812a.m
Misc Info: 20ppbv(200ppbv)

Calibration Date: 12-AUG-2021
Calibration Time: 19:05
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	229903	137942	321864	221729	-3.56
108 1,4-Difluorobenze	822152	493291	1151013	794129	-3.41
153 Chlorobenzene-d5	775771	465463	1086079	746118	-3.82

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.86	5.53	6.19	5.86	-0.00
108 1,4-Difluorobenze	6.75	6.42	7.08	6.75	-0.00
153 Chlorobenzene-d5	9.21	8.88	9.54	9.21	-0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msd3.i/12AUG21.b/3081207.d

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Date : 12-AUG-2021 18:37

Client ID:

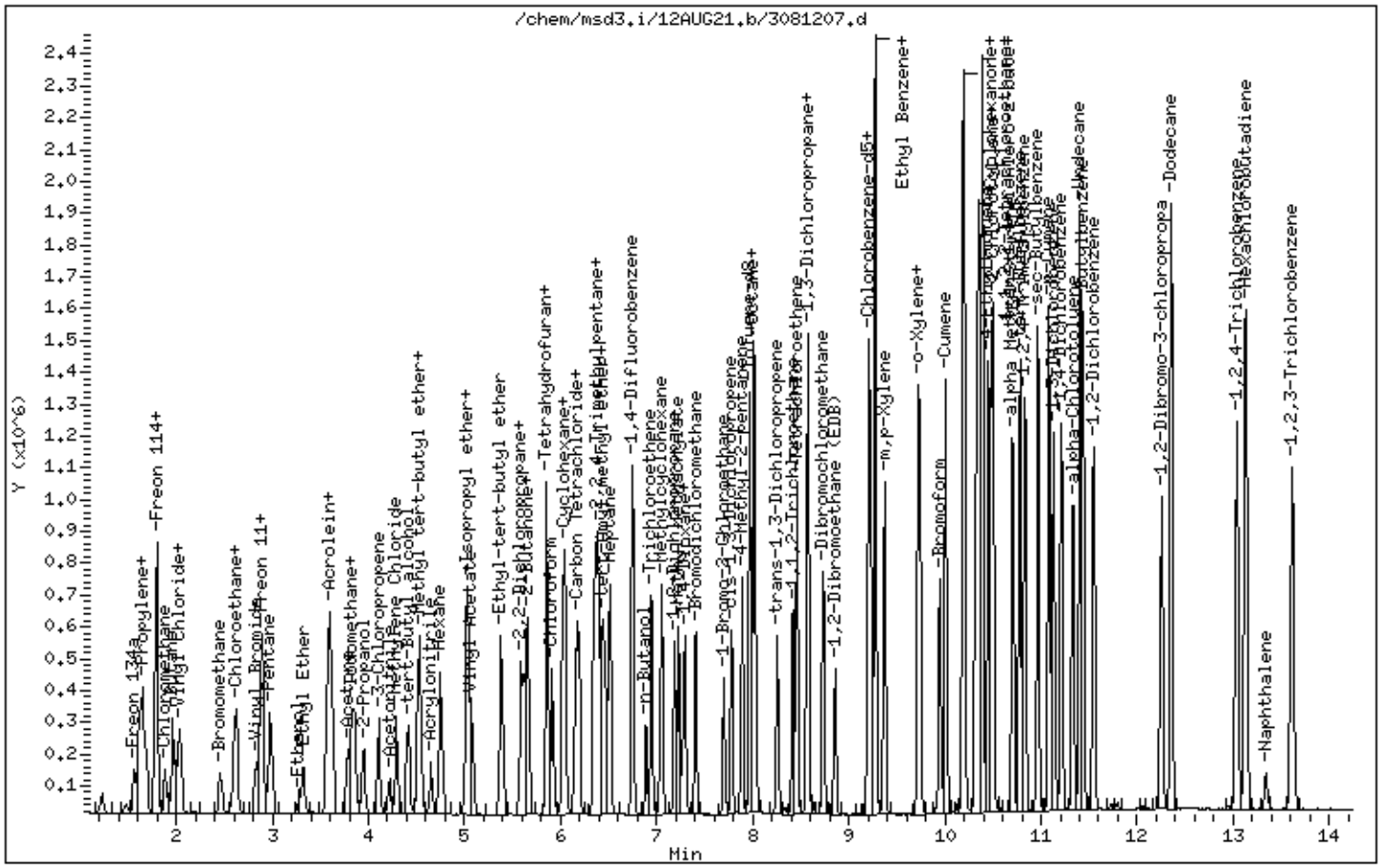
Instrument: msd3.i

Sample Info: 20ml 3018-2213

Operator: LD

Column phase: RTX-624

Column diameter: 0.25



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EPA TO-15/MODIFIED TO14A

Data file : /chem/msd3.i/12AUG21.b/3081218.d
Lab Smp Id: ICAL Level #8
Inj Date : 13-AUG-2021 00:36
Operator : gh Inst ID: msd3.i
Smp Info : 20ml #3018-2127
Misc Info : 20ppbv(200ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msd3.i/12AUG21.b/321q0812a.m
Meth Date : 13-Aug-2021 12:38 ugdc Quant Type: ISTD
Cal Date : 13-AUG-2021 00:36 Cal File: 3081218.d
Als bottle: 3 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT20spICAL.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 90 Bromochloromethane					CAS #: 74-97-5		
5.858	5.858 (1.000)	130	230809	25.0000		80.00- 120.00	100.00
5.858	5.858 (1.000)	128	181116			47.29- 107.29	78.47
5.858	5.858 (1.000)	49	349767			122.83- 182.83	151.54
* 108 1,4-Difluorobenzene					CAS #: 540-36-3		
6.750	6.750 (1.000)	114	831865	25.0000		80.00- 120.00	100.00
6.750	6.750 (1.000)	88	124384			0.00- 45.09	14.95
* 153 Chlorobenzene-d5					CAS #: 3114-55-4		
9.207	9.207 (1.000)	117	769798	25.0000		80.00- 120.00	100.00
9.207	9.207 (1.000)	82	411401			23.62- 83.62	53.44
3 Freon 143a					CAS #: 420-46-2		
1.506	1.520 (0.257)	65	99302	20.0000	20.081	80.00- 120.00	100.00
1.506	1.520 (0.257)	69	234422			217.09- 277.09	236.07
1.506	1.520 (0.257)	64	24839			0.00- 55.87	25.01
6 Propane					CAS #: 74-98-6		
1.618	1.618 (0.276)	43	50772	20.0000	20.793	80.00- 120.00	100.00

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
6 Propane (continued)							
1.618	1.618 (0.276)	39	36582			41.62- 101.62	72.05
1.618	1.618 (0.276)	41	27554			22.97- 82.97	54.27
13 Freon 142b					CAS #: 75-68-3		
1.842	1.842 (0.314)	65	308714	20.0000	19.965	80.00- 120.00	100.00
1.842	1.842 (0.314)	45	88875			0.00- 58.17	28.79
36 1-Pentene					CAS #: 109-67-1		
2.920	2.920 (0.498)	55	178071	20.0000	20.161	80.00- 120.00	100.00
2.906	2.920 (0.496)	42	241407			99.17- 159.17	135.57
40 Freon 123a					CAS #: 354-23-4		
3.423	3.423 (0.584)	117	222552	20.0000	20.328	80.00- 120.00	100.00
3.423	3.423 (0.584)	67	287399			103.13- 163.13	129.14
41 Freon 123					CAS #: 306-83-2		
3.521	3.521 (0.601)	83	315366	20.0000	20.423	80.00- 120.00	100.00
3.521	3.521 (0.601)	133	74000			0.00- 51.81	23.46
3.521	3.521 (0.601)	85	208372			37.13- 97.13	66.07
55 Cyclopentene					CAS #: 142-29-0		
4.123	4.123 (0.704)	67	315315	20.0000	20.163	80.00- 120.00	100.00
4.123	4.123 (0.704)	68	120431			7.90- 67.90	38.19
4.123	4.123 (0.704)	53	81642			0.00- 54.87	25.89
56 Methyl Acetate					CAS #: 79-20-9		
4.151	4.151 (0.709)	43	345434	20.0000	20.425	80.00- 120.00	100.00
4.151	4.151 (0.709)	74	57588			0.00- 47.15	16.67
74 Chloroprene					CAS #: 126-99-8		
5.088	5.088 (0.869)	53	281703	20.0000	20.078	80.00- 120.00	100.00
5.088	5.102 (0.869)	88	117403			12.33- 72.33	41.68
5.088	5.088 (0.869)	50	83378			0.00- 57.62	29.60
75 1-Propanol					CAS #: 71-23-8		
5.158	5.158 (0.881)	59	36821	20.0000	19.219	80.00- 120.00	100.00
5.158	5.158 (0.881)	42	33787			53.89- 113.89	91.76
5.158	5.158 (0.881)	41	21541			24.09- 84.09	58.50
88 Methyl Acrylate					CAS #: 96-33-3		
5.704	5.718 (0.974)	55	335766	20.0000	20.424	80.00- 120.00	100.00
5.718	5.718 (0.976)	85	43868			0.00- 43.24	13.07
5.704	5.718 (0.974)	58	28995			0.00- 38.83	8.64
103 Isobutanol					CAS #: 78-83-1		
6.320	6.320 (1.079)	39	50152	20.0000	19.918	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
103 Isobutanol (continued)							
6.320	6.320 (1.079)	43	170154			327.69- 387.69	339.28
6.320	6.320 (1.079)	41	131767			237.56- 297.56	262.74
113 Ethyl acrylate					CAS #: 140-88-5		
7.036	7.036 (0.764)	99	25829	20.0000	20.184	80.00- 120.00	100.00
7.029	7.036 (0.763)	45	41845			124.67- 184.67	162.01
7.036	7.036 (0.764)	55	435181			1601.30-1661.30	1684.85
115 2-Pentanone					CAS #: 107-87-9		
7.129	7.129 (0.774)	43	530978	20.0000	20.744	80.00- 120.00	100.00
7.136	7.129 (0.775)	58	39486			0.00- 37.25	7.44
7.136	7.136 (0.775)	86	77188			0.00- 45.08	14.54
145 Butyl Acetate					CAS #: 123-86-4		
8.626	8.626 (1.278)	56	237426	20.0000	20.610	80.00- 120.00	100.00
8.626	8.626 (1.278)	73	83105			5.16- 65.16	35.00
8.626	8.626 (1.278)	43	602428			214.00- 274.00	253.73
157 1,1,1,2-Tetrachloroethane					CAS #: 630-20-6		
9.292	9.300 (1.009)	131	288195	20.0000	21.484	80.00- 120.00	100.00
9.207	9.207 (1.000)	117	769798			38.22- 98.22	267.11
9.300	9.293 (1.010)	95	106347			7.54- 67.54	36.90
166 2-Heptanone					CAS #: 110-43-0		
9.801	9.801 (1.673)	58	352966	20.0000	20.556	80.00- 120.00	100.00
9.801	9.801 (1.673)	43	618243			133.36- 193.36	175.16
172 D-Limonene					CAS #: 5989-27-5		
11.033	11.033 (1.198)	68	311631	20.0000	24.251	80.00- 120.00	100.00
11.033	11.033 (1.198)	93	228626			42.08- 102.08	73.36
186 4-Chlorotoluene					CAS #: 106-43-4		
10.575	10.582 (1.149)	126	252314	20.0000	21.290	80.00- 120.00	100.00
10.575	10.575 (1.149)	91	814202			305.94- 365.94	322.69
10.575	10.575 (1.149)	63	118721			15.44- 75.44	47.05
197 1,2,3-Trimethylbenzene					CAS #: 526-73-8		
11.212	11.212 (1.218)	120	333811	20.0000	21.506	80.00- 120.00	100.00
11.212	11.212 (1.218)	105	784527			206.43- 266.43	235.02
11.212	11.212 (1.218)	77	93733			0.00- 58.29	28.08
205 Hexachloroethane					CAS #: 67-72-1		
11.728	11.728 (1.274)	201	221922	20.0000	24.327	80.00- 120.00	100.00
11.728	11.728 (1.274)	117	308052			109.77- 169.77	138.81

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
208 1,3,5-Trichlorobenzene					CAS #: 108-70-3		
12.387	12.387 (1.345)	180	507037	20.0000	21.273	80.00- 120.00	100.00
12.387	12.387 (1.345)	182	481584			65.79- 125.79	94.98
210 alpha-Pinene					CAS #: 80-56-8		
9.966	9.973 (1.082)	93	544302	20.0000	21.759	80.00- 120.00	100.00
9.966	9.973 (1.082)	77	165592			0.13- 60.13	30.42
214 beta-Pinene					CAS #: 127-91-3		
10.560	10.560 (1.147)	93	418437	20.0000	22.625	80.00- 120.00	100.00
10.575	10.575 (1.149)	91	814202			145.95- 205.95	194.58

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd3.i
Lab File ID: 3081218.d
Lab Smp Id: ICAL Level #8
Analysis Type: VOA
Quant Type: ISTD
Operator: gh
Method File: /chem/msd3.i/12AUG21.b/321q0812a.m
Misc Info: 20ppbv(200ppbv)

Calibration Date: 12-AUG-2021
Calibration Time: 19:05
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	229903	137942	321864	230809	0.39
108 1,4-Difluorobenze	822152	493291	1151013	831865	1.18
153 Chlorobenzene-d5	775771	465463	1086079	769798	-0.77

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.86	5.53	6.19	5.86	-0.00
108 1,4-Difluorobenze	6.75	6.42	7.08	6.75	-0.00
153 Chlorobenzene-d5	9.21	8.88	9.54	9.21	-0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msd3.i/12AUG21.b/3081218.d

Date : 13-AUG-2021 00:36

Client ID:

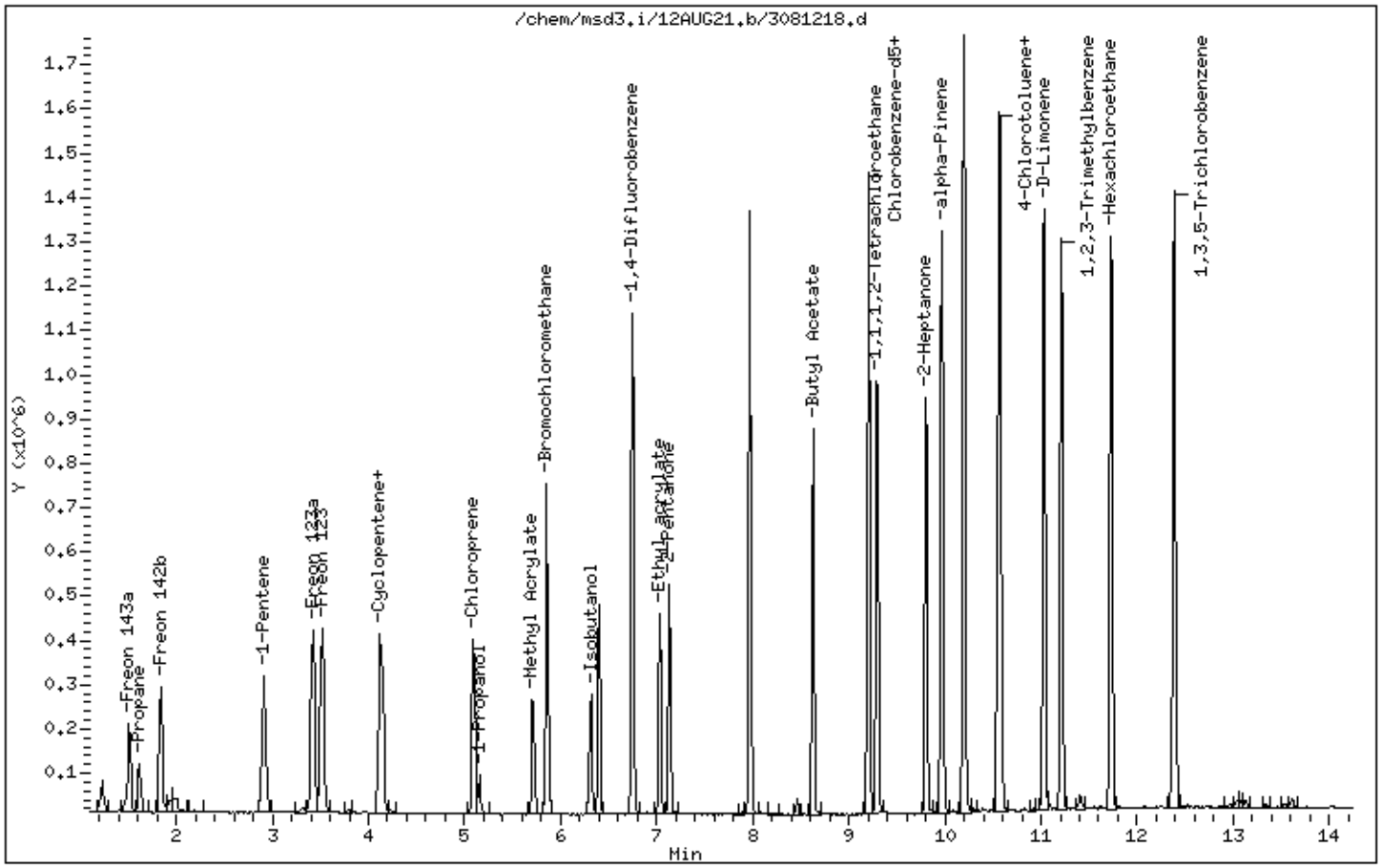
Instrument: msd3.i

Sample Info: 20ml #3018-2127

Operator: gh

Column phase: RTX-624

Column diameter: 0.25



US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msd3.i/12AUG21.b/3081208.d
Lab Smp Id: ICAL Level #9
Inj Date : 12-AUG-2021 19:05
Operator : LD Inst ID: msd3.i
Smp Info : 50ml 3018-2213
Misc Info : 50ppbv(200ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msd3.i/12AUG21.b/321q0812a.m
Meth Date : 13-Aug-2021 07:57 ugdc Quant Type: ISTD
Cal Date : 12-AUG-2021 19:05 Cal File: 3081208.d
Als bottle: 13 Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT20ICAL.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
4 Freon 134a					CAS #: 811-97-2		
1.577	1.577 (0.269)	83	315602	50.0000	50.000	80.00- 120.00	100.00
1.577	1.577 (0.269)	69	254864			50.75- 110.75	80.75
1.577	1.577 (0.269)	51	62377			0.00- 49.76	19.76
5 Propylene					CAS #: 115-07-1		
1.619	1.619 (0.276)	41	316270	50.0000	50.000	80.00- 120.00	100.00
1.619	1.619 (0.276)	42	210833			36.66- 96.66	66.66
1.619	1.619 (0.276)	39	234398			44.11- 104.11	74.11
7 1,1-Difluoroethane					CAS #: 75-37-6		
1.633	1.633 (0.279)	65	192609	50.0000	50.000	80.00- 120.00	100.00
1.633	1.633 (0.279)	51	476003			217.13- 277.13	247.13
1.633	1.633 (0.279)	47	151718			48.77- 108.77	78.77
8 Freon 12					CAS #: 75-71-8		
1.661	1.661 (0.283)	85	867763	50.0000	50.000	80.00- 120.00	100.00
1.661	1.661 (0.283)	87	280705			2.35- 62.35	32.35
9 Chlorodifluoromethane					CAS #: 75-45-6		
1.689	1.689 (0.288)	67	94802	50.0000	50.000	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
9 Chlorodifluoromethane (continued)							
1.689	1.689 (0.288)	51	702180			710.68- 770.68	740.68
10 Freon 114					CAS #: 76-14-2		
1.800	1.800 (0.307)	135	653625	50.0000	50.000	80.00- 120.00	100.00
1.800	1.800 (0.307)	137	209561			2.06- 62.06	32.06
12 Isobutane					CAS #: 75-28-5		
1.800	1.800 (0.307)	43	716763	50.0000	50.000	80.00- 120.00	100.00
1.800	1.800 (0.307)	42	234370			2.70- 62.70	32.70
1.800	1.800 (0.307)	58	24676			0.00- 33.44	3.44
15 Chloromethane					CAS #: 74-87-3		
1.884	1.884 (0.322)	50	364497	50.0000	50.000	80.00- 120.00	100.00
1.884	1.884 (0.322)	52	121676			3.38- 63.38	33.38
18 Butane					CAS #: 106-97-8		
1.968	1.968 (0.336)	58	79934	50.0000	50.000	80.00- 120.00	100.00
1.968	1.968 (0.336)	43	631887			760.51- 820.51	790.51
19 Vinyl Chloride					CAS #: 75-01-4		
2.010	2.010 (0.343)	62	367129	50.0000	50.000	80.00- 120.00	100.00
2.010	2.010 (0.343)	64	111323			0.32- 60.32	30.32
20 1,3-Butadiene					CAS #: 106-99-0		
2.038	2.038 (0.348)	54	324066	50.0000	50.000	80.00- 120.00	100.00
2.038	2.038 (0.348)	39	333594			72.94- 132.94	102.94
24 Bromomethane					CAS #: 74-83-9		
2.458	2.458 (0.420)	94	283348	50.0000	50.000	80.00- 120.00	100.00
2.458	2.458 (0.420)	96	264027			63.18- 123.18	93.18
30 Chloroethane					CAS #: 75-00-3		
2.598	2.598 (0.443)	64	179590	50.0000	50.000	80.00- 120.00	100.00
2.598	2.598 (0.443)	66	55860			1.10- 61.10	31.10
2.598	2.598 (0.443)	49	63685			5.46- 65.46	35.46
31 Isopentane					CAS #: 78-78-4		
2.626	2.626 (0.448)	43	481746	50.0000	50.000	80.00- 120.00	100.00
2.626	2.626 (0.448)	57	318528			36.12- 96.12	66.12
32 Vinyl Bromide					CAS #: 593-60-2		
2.836	2.836 (0.484)	106	328179	50.0000	50.000	80.00- 120.00	100.00
2.836	2.836 (0.484)	108	305230			63.01- 123.01	93.01
33 Freon 11					CAS #: 75-69-4		
2.892	2.892 (0.494)	101	944642	50.0000	50.000	80.00- 120.00	100.00

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
33 Freon 11 (continued)							
2.892	2.892 (0.494)	103	628662			36.55- 96.55	66.55
34 Dichlorofluoromethane					CAS #: 75-43-4		
2.906	2.906 (0.496)	67	743117	50.0000	50.000	80.00- 120.00	100.00
2.906	2.906 (0.496)	69	236434			1.82- 61.82	31.82
35 Pentane					CAS #: 109-66-0		
2.976	2.976 (0.508)	43	759428	50.0000	50.000	80.00- 120.00	100.00
2.976	2.976 (0.508)	57	117897			0.00- 45.52	15.52
2.976	2.976 (0.508)	72	62651			0.00- 38.25	8.25
39 Ethanol					CAS #: 64-17-5		
3.284	3.284 (0.561)	46	66451	50.0000	50.000	80.00- 120.00	100.00
3.284	3.284 (0.561)	45	161668			213.29- 273.29	243.29
38 Ethyl Ether					CAS #: 60-29-7		
3.326	3.326 (0.568)	74	156697	50.0000	50.000	80.00- 120.00	100.00
3.326	3.326 (0.568)	59	271887			143.51- 203.51	173.51
3.326	3.326 (0.568)	45	271918			143.53- 203.53	173.53
42 Acrolein					CAS #: 107-02-8		
3.591	3.591 (0.613)	55	123531	50.0000	50.000	80.00- 120.00	100.00
3.591	3.591 (0.613)	56	165556			104.02- 164.02	134.02
43 Freon 113					CAS #: 76-13-1		
3.591	3.591 (0.613)	151	623319	50.0000	50.000	80.00- 120.00	100.00
3.591	3.591 (0.613)	153	399129			34.03- 94.03	64.03
3.591	3.591 (0.613)	101	746223			89.72- 149.72	119.72
44 1,1-Dichloroethene					CAS #: 75-35-4		
3.619	3.619 (0.618)	96	343006	50.0000	50.000	80.00- 120.00	100.00
3.619	3.619 (0.618)	98	215581			32.85- 92.85	62.85
3.619	3.619 (0.618)	61	671967			165.91- 225.91	195.91
47 Acetone					CAS #: 67-64-1		
3.787	3.787 (0.646)	58	202949	50.0000	50.000	80.00- 120.00	100.00
3.787	3.787 (0.646)	43	720649			325.09- 385.09	355.09
49 Iodomethane					CAS #: 74-88-4		
3.829	3.829 (0.654)	142	913360	50.0000	50.000	80.00- 120.00	100.00
3.829	3.829 (0.654)	127	429065			16.98- 76.98	46.98
48 Carbon Disulfide					CAS #: 75-15-0		
3.857	3.857 (0.658)	76	922071	50.0000	50.000	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
52 2-Propanol					CAS #: 67-63-0		
3.941	3.941 (0.673)	45	792528	50.0000	50.000	80.00- 120.00	100.00
3.941	3.941 (0.673)	43	156566			0.00- 49.76	19.76
54 3-Chloropropene					CAS #: 107-05-1		
4.109	4.109 (0.701)	76	150936	50.0000	50.000	80.00- 120.00	100.00
4.109	4.109 (0.701)	41	565886			344.92- 404.92	374.92
57 Acetonitrile					CAS #: 75-05-8		
4.221	4.221 (0.721)	41	343235	50.0000	50.000	80.00- 120.00	100.00
4.221	4.221 (0.721)	40	185627			24.08- 84.08	54.08
4.221	4.221 (0.721)	38	44072			0.00- 42.84	12.84
59 Methylene Chloride					CAS #: 75-09-2		
4.291	4.291 (0.732)	49	514699	50.0000	50.000	80.00- 120.00	100.00
4.291	4.291 (0.732)	84	298248			27.95- 87.95	57.95
4.291	4.291 (0.732)	51	158438			0.78- 60.78	30.78
62 tert-Butyl alcohol					CAS #: 75-65-0		
4.417	4.417 (0.754)	59	917650	50.0000	50.000	80.00- 120.00	100.00
4.417	4.417 (0.754)	41	207223			0.00- 52.58	22.58
4.417	4.417 (0.754)	57	100374			0.00- 40.94	10.94
63 Methyl tert-butyl ether					CAS #: 1634-04-4		
4.515	4.515 (0.771)	73	993238	50.0000	50.000	80.00- 120.00	100.00
4.515	4.515 (0.771)	57	280823			0.00- 58.27	28.27
4.515	4.515 (0.771)	41	285833			0.00- 58.78	28.78
64 trans-1,2-Dichloroethene					CAS #: 156-60-5		
4.543	4.543 (0.775)	98	227905	50.0000	50.000	80.00- 120.00	100.00
4.543	4.543 (0.775)	61	608155			236.85- 296.85	266.85
4.543	4.543 (0.775)	96	357170			126.72- 186.72	156.72
66 Acrylonitrile					CAS #: 107-13-1		
4.655	4.655 (0.795)	52	270328	50.0000	50.000	80.00- 120.00	100.00
4.655	4.655 (0.795)	53	321471			88.92- 148.92	118.92
67 Hexane					CAS #: 110-54-3		
4.753	4.753 (0.811)	57	654247	50.0000	50.000	80.00- 120.00	100.00
4.753	4.753 (0.811)	43	436625			36.74- 96.74	66.74
4.753	4.753 (0.811)	86	86485			0.00- 43.22	13.22
72 Isopropyl ether					CAS #: 108-20-3		
5.019	5.019 (0.857)	45	1493637	50.0000	50.000	80.00- 120.00	100.00
5.033	5.033 (0.859)	87	320192			0.00- 51.44	21.44
5.019	5.019 (0.857)	59	161529			0.00- 40.81	10.81

	RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
	71 1,1-Dichloroethane					CAS #: 75-34-3		
	5.047	5.047 (0.861)	63	681992	50.0000	50.000	80.00- 120.00	100.00
	5.047	5.047 (0.861)	65	208404			0.56- 60.56	30.56
	73 Vinyl Acetate					CAS #: 108-05-4		
	5.089	5.089 (0.869)	86	87418	50.0000	50.000	80.00- 120.00	100.00
	5.075	5.075 (0.866)	43	1313898			1473.01-1533.01	1503.01
	79 Ethyl-tert-butyl ether					CAS #: 637-92-3		
	5.382	5.382 (0.919)	59	1373727	50.0000	50.000	80.00- 120.00	100.00
	5.382	5.382 (0.919)	87	470934			4.28- 64.28	34.28
	5.382	5.382 (0.919)	41	273916			0.00- 49.94	19.94
	84 2,2-Dichloropropane					CAS #: 594-20-7		
	5.592	5.592 (0.955)	77	674545	50.0000	50.000	80.00- 120.00	100.00
	5.592	5.592 (0.955)	79	218777			2.43- 62.43	32.43
	5.592	5.592 (0.955)	97	155357			0.00- 53.03	23.03
	85 cis-1,2-Dichloroethene					CAS #: 156-59-2		
	5.620	5.620 (0.959)	98	240666	50.0000	50.000	80.00- 120.00	100.00
	5.620	5.620 (0.959)	96	365588			121.91- 181.91	151.91
	5.620	5.620 (0.959)	61	827229			313.72- 373.72	343.72
	86 2-Butanone					CAS #: 78-93-3		
	5.648	5.648 (0.964)	72	180571	50.0000	50.000	80.00- 120.00	100.00
	5.662	5.662 (0.967)	43	2060762			1111.25-1171.25	1141.25
	5.648	5.648 (0.964)	57	74429			11.22- 71.22	41.22
	87 Ethyl Acetate					CAS #: 141-78-6		
	5.662	5.662 (0.967)	45	165721	50.0000	50.000	80.00- 120.00	100.00
	5.620	5.620 (0.959)	61	827229			469.17- 529.17	499.17
	5.662	5.662 (0.967)	70	98402			29.38- 89.38	59.38
	89 Tetrahydrofuran					CAS #: 109-99-9		
	5.858	5.858 (1.000)	42	516463	50.0000	50.000	80.00- 120.00	100.00
	5.858	5.858 (1.000)	71	155417			0.09- 60.09	30.09
	5.858	5.858 (1.000)	72	165955			2.13- 62.13	32.13
*	90 Bromochloromethane					CAS #: 74-97-5		
	5.858	5.858 (1.000)	130	229903	25.0000		80.00- 120.00	100.00
	5.858	5.858 (1.000)	128	177703			47.29- 107.29	77.29
	5.858	5.858 (1.000)	49	351358			122.83- 182.83	152.83
	92 Chloroform					CAS #: 67-66-3		
	5.914	5.914 (1.010)	83	770994	50.0000	50.000	80.00- 120.00	100.00
	5.914	5.914 (1.010)	85	495661			34.29- 94.29	64.29

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
94 Cyclohexane					CAS #: 110-82-7		
6.026	6.026 (1.029)	84	470463	50.0000	50.000	80.00- 120.00	100.00
6.026	6.026 (1.029)	56	690890			116.85- 176.85	146.85
6.026	6.026 (1.029)	41	412907			57.77- 117.77	87.77
96 1,1,1-Trichloroethane					CAS #: 71-55-6		
6.054	6.054 (1.033)	97	823642	50.0000	50.000	80.00- 120.00	100.00
6.054	6.054 (1.033)	99	531654			34.55- 94.55	64.55
97 Carbon Tetrachloride					CAS #: 56-23-5		
6.166	6.166 (1.053)	119	865850	50.0000	50.000	80.00- 120.00	100.00
6.166	6.166 (1.053)	117	902221			74.20- 134.20	104.20
99 1,1-Dichloropropene					CAS #: 563-58-6		
6.194	6.194 (0.918)	110	206943	50.0000	50.000	80.00- 120.00	100.00
6.194	6.194 (0.918)	75	536792			229.39- 289.39	259.39
101 2,2,4-Trimethylpentane					CAS #: 540-84-1		
6.348	6.348 (1.084)	57	2139161	50.0000	50.000	80.00- 120.00	100.00
6.348	6.348 (1.084)	56	666064			1.14- 61.14	31.14
6.348	6.348 (1.084)	41	622947			0.00- 59.12	29.12
102 Benzene					CAS #: 71-43-2		
6.376	6.376 (0.945)	78	1001813	50.0000	50.000	80.00- 120.00	100.00
6.376	6.376 (0.945)	77	235249			0.00- 53.48	23.48
$ 104 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
6.404	6.404 (1.093)	65	314778	25.0000	25.000	80.00- 120.00	100.00
6.404	6.404 (1.093)	67	158993			20.51- 80.51	50.51
105 tert-Amyl methyl ether					CAS #: 994-05-8		
6.446	6.446 (0.955)	87	274965	50.0000	50.000	80.00- 120.00	100.00
6.446	6.446 (0.955)	73	1082809			363.80- 423.80	393.80
6.432	6.432 (0.953)	55	349558			97.13- 157.13	127.13
106 1,2-Dichloroethane					CAS #: 107-06-2		
6.474	6.474 (0.959)	62	601269	50.0000	50.000	80.00- 120.00	100.00
6.474	6.474 (0.959)	64	188832			1.41- 61.41	31.41
107 Heptane					CAS #: 142-82-5		
6.516	6.516 (0.965)	71	395258	50.0000	50.000	80.00- 120.00	100.00
6.516	6.516 (0.965)	43	697429			146.45- 206.45	176.45
6.516	6.516 (0.965)	57	475098			90.20- 150.20	120.20
* 108 1,4-Difluorobenzene					CAS #: 540-36-3		
6.750	6.750 (1.000)	114	822152	25.0000		80.00- 120.00	100.00

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 108 1,4-Difluorobenzene (continued)							
6.750	6.750 (1.000)	88	124069			0.00- 45.09	15.09
110 n-Butanol					CAS #: 71-36-3		
6.893	6.893 (1.021)	56	358242	50.0000	50.000	80.00- 120.00	100.00
6.886	6.886 (1.020)	41	266741			44.46- 104.46	74.46
6.886	6.886 (1.020)	43	208298			28.14- 88.14	58.14
111 Trichloroethene					CAS #: 79-01-6		
6.943	6.943 (1.029)	95	491289	50.0000	50.000	80.00- 120.00	100.00
6.950	6.950 (1.030)	130	538869			79.68- 139.68	109.68
6.943	6.943 (1.029)	97	318084			34.74- 94.74	64.74
127 Methylcyclohexane					CAS #: 108-87-2		
7.051	7.051 (1.045)	83	637336	50.0000	50.000	80.00- 120.00	100.00
7.051	7.051 (1.045)	98	300192			17.10- 77.10	47.10
7.051	7.051 (1.045)	55	644396			71.11- 131.11	101.11
114 1,2-Dichloropropane					CAS #: 78-87-5		
7.187	7.187 (1.065)	63	446498	50.0000	50.000	80.00- 120.00	100.00
7.187	7.187 (1.065)	62	314991			40.55- 100.55	70.55
7.187	7.187 (1.065)	41	294987			36.07- 96.07	66.07
116 Methyl Methacrylate					CAS #: 80-62-6		
7.230	7.230 (0.785)	69	401974	50.0000	50.000	80.00- 120.00	100.00
7.230	7.230 (0.785)	41	766436			160.67- 220.67	190.67
7.230	7.230 (0.785)	100	166126			11.33- 71.33	41.33
117 1,4-Dioxane					CAS #: 123-91-1		
7.273	7.273 (1.077)	88	285735	50.0000	50.000	80.00- 120.00	100.00
7.273	7.273 (1.077)	58	246266			56.19- 116.19	86.19
7.273	7.273 (1.077)	57	83786			0.00- 59.32	29.32
118 Dibromomethane					CAS #: 74-95-3		
7.294	7.294 (0.792)	174	471969	50.0000	50.000	80.00- 120.00	100.00
7.294	7.294 (0.792)	93	457243			66.88- 126.88	96.88
7.294	7.294 (0.792)	95	377126			49.90- 109.90	79.90
122 Bromodichloromethane					CAS #: 75-27-4		
7.409	7.409 (1.098)	83	833614	50.0000	50.000	80.00- 120.00	100.00
7.409	7.409 (1.098)	85	532243			33.85- 93.85	63.85
151 1-Bromo-2-Chloroethane					CAS #: 107-04-0		
7.702	7.702 (1.141)	63	844882	50.0000	50.000	80.00- 120.00	100.00
7.702	7.702 (1.141)	65	253914			0.05- 60.05	30.05
7.702	7.702 (1.141)	144	92191			0.00- 40.91	10.91

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
126 cis-1,3-Dichloropropene						CAS #: 10061-01-5	
7.781	7.781 (1.153)	75	643191	50.0000	50.000	80.00- 120.00	100.00
7.781	7.781 (1.153)	77	202579			1.50- 61.50	31.50
7.781	7.781 (1.153)	39	470303			43.12- 103.12	73.12
131 4-Methyl-2-pentanone						CAS #: 108-10-1	
7.889	7.889 (1.169)	58	435892	50.0000	50.000	80.00- 120.00	100.00
7.889	7.889 (1.169)	43	1211090			247.84- 307.84	277.84
7.889	7.889 (1.169)	85	168841			8.73- 68.73	38.73
$ 134 Toluene-d8						CAS #: 2037-26-5	
7.967	7.967 (1.180)	98	835464	25.0000	25.000	80.00- 120.00	100.00
7.967	7.967 (1.180)	70	100255			0.00- 42.00	12.00
7.967	7.967 (1.180)	100	560958			37.14- 97.14	67.14
136 Octane						CAS #: 111-65-9	
8.010	8.010 (1.187)	57	455601	50.0000	50.000	80.00- 120.00	100.00
8.010	8.010 (1.187)	85	445451			67.77- 127.77	97.77
8.010	8.010 (1.187)	43	1162997			225.27- 285.27	255.27
137 Toluene						CAS #: 108-88-3	
8.025	8.025 (1.189)	91	1366045	50.0000	50.000	80.00- 120.00	100.00
8.025	8.025 (1.189)	92	794073			28.13- 88.13	58.13
139 trans-1,3-Dichloropropene						CAS #: 10061-02-6	
8.254	8.254 (0.897)	75	627586	50.0000	50.000	80.00- 120.00	100.00
8.254	8.254 (0.897)	77	200383			1.93- 61.93	31.93
8.254	8.254 (0.897)	39	429066			38.37- 98.37	68.37
141 1,1,2-Trichloroethane						CAS #: 79-00-5	
8.419	8.419 (0.914)	97	470666	50.0000	50.000	80.00- 120.00	100.00
8.419	8.419 (0.914)	99	290208			31.66- 91.66	61.66
8.419	8.419 (0.914)	83	401208			55.24- 115.24	85.24
142 Tetrachloroethene						CAS #: 127-18-4	
8.462	8.462 (0.919)	166	684812	50.0000	50.000	80.00- 120.00	100.00
8.462	8.462 (0.919)	129	537617			48.51- 108.51	78.51
8.462	8.462 (0.919)	131	518001			45.64- 105.64	75.64
144 1,3-Dichloropropane						CAS #: 142-28-9	
8.569	8.569 (1.270)	76	650206	50.0000	50.000	80.00- 120.00	100.00
8.569	8.569 (1.270)	41	824670			96.83- 156.83	126.83
8.569	8.569 (1.270)	78	211060			2.46- 62.46	32.46
143 2-Hexanone						CAS #: 591-78-6	
8.576	8.576 (0.932)	58	680988	50.0000	50.000	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
143 2-Hexanone (continued)							
8.576	8.576 (0.932)	43	1356798			169.24- 229.24	199.24
8.576	8.576 (0.932)	100	127495			0.00- 48.72	18.72
146 Dibromochloromethane						CAS #: 124-48-1	
8.734	8.734 (0.949)	129	970978	50.0000	50.000	80.00- 120.00	100.00
8.734	8.734 (0.949)	127	748141			47.05- 107.05	77.05
148 1,2-Dibromoethane (EDB)						CAS #: 106-93-4	
8.856	8.856 (0.962)	107	760286	50.0000	50.000	80.00- 120.00	100.00
8.856	8.856 (0.962)	109	720277			64.74- 124.74	94.74
* 153 Chlorobenzene-d5						CAS #: 3114-55-4	
9.207	9.207 (1.000)	117	775771	25.0000		80.00- 120.00	100.00
9.207	9.207 (1.000)	82	415985			23.62- 83.62	53.62
154 Chlorobenzene						CAS #: 108-90-7	
9.235	9.235 (1.003)	112	1166195	50.0000	50.000	80.00- 120.00	100.00
9.235	9.235 (1.003)	114	375370			2.19- 62.19	32.19
9.228	9.228 (1.002)	77	625766			23.66- 83.66	53.66
155 Ethyl Benzene						CAS #: 100-41-4	
9.278	9.278 (1.008)	106	589052	50.0000	50.000	80.00- 120.00	100.00
9.278	9.278 (1.008)	91	1840360			282.43- 342.43	312.43
156 Nonane						CAS #: 111-84-2	
9.278	9.278 (1.008)	43	1194124	50.0000	50.000	80.00- 120.00	100.00
9.278	9.278 (1.008)	57	1023749			55.73- 115.73	85.73
9.278	9.278 (1.008)	85	346146			0.00- 58.99	28.99
158 m,p-Xylene						CAS #: 108-38-3	
9.371	9.371 (1.018)	106	727916	50.0000	50.000	80.00- 120.00	100.00
9.371	9.371 (1.018)	91	1453384			169.66- 229.66	199.66
164 o-Xylene						CAS #: 95-47-6	
9.722	9.722 (1.056)	106	689174	50.0000	50.000	80.00- 120.00	100.00
9.722	9.722 (1.056)	91	1451084			180.55- 240.55	210.55
165 Styrene						CAS #: 100-42-5	
9.737	9.737 (1.058)	104	1190552	50.0000	50.000	80.00- 120.00	100.00
9.737	9.737 (1.058)	78	579246			18.65- 78.65	48.65
167 Bromoform						CAS #: 75-25-2	
9.944	9.944 (1.080)	173	925650	50.0000	50.000	80.00- 120.00	100.00
9.944	9.944 (1.080)	171	478009			21.64- 81.64	51.64

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
168 Cumene					CAS #: 98-82-8		
10.009	10.009 (1.087)	105	2209506	50.0000	50.000	80.00- 120.00	100.00
10.009	10.009 (1.087)	120	597523			0.00- 57.04	27.04
10.009	10.009 (1.087)	51	264134			0.00- 41.95	11.95
169 Cyclohexanone					CAS #: 108-94-1		
10.188	10.188 (1.107)	55	901175	50.0000	50.000	80.00- 120.00	100.00
10.188	10.188 (1.107)	98	347795			8.59- 68.59	38.59
10.188	10.188 (1.107)	42	686542			46.18- 106.18	76.18
$ 170 4-Bromofluorobenzene					CAS #: 460-00-4		
10.202	10.202 (1.108)	174	515547	25.0000	25.000	80.00- 120.00	100.00
10.195	10.195 (1.107)	95	630265			92.25- 152.25	122.25
10.202	10.202 (1.108)	176	479840			63.07- 123.07	93.07
175 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
10.317	10.317 (1.121)	83	1046843	50.0000	50.000	80.00- 120.00	100.00
10.317	10.317 (1.121)	85	674592			34.44- 94.44	64.44
177 Bromobenzene					CAS #: 108-86-1		
10.338	10.338 (1.123)	156	703802	50.0000	50.000	80.00- 120.00	100.00
10.346	10.346 (1.124)	158	684112			67.20- 127.20	97.20
10.338	10.338 (1.123)	77	1135654			131.36- 191.36	161.36
178 Propylbenzene					CAS #: 103-65-1		
10.360	10.360 (1.125)	120	625114	50.0000	50.000	80.00- 120.00	100.00
10.360	10.360 (1.125)	91	2595662	50.0000	50.000	385.23- 445.23	415.23
10.360	10.360 (1.125)	105	100130			0.00- 46.02	16.02
181 trans-1,4-Dichloro-2-butene					CAS #: 110-57-6		
10.374	10.374 (1.127)	53	261822	50.0000	50.000	80.00- 120.00	100.00
10.374	10.374 (1.127)	89	184277			40.38- 100.38	70.38
10.381	10.381 (1.128)	75	1111715			394.61- 454.61	424.61
179 1,2,3-Trichloropropane					CAS #: 96-18-4		
10.389	10.389 (1.128)	110	335290	50.0000	50.000	80.00- 120.00	100.00
10.381	10.381 (1.128)	75	1111715			301.57- 361.57	331.57
10.381	10.381 (1.128)	61	282711			54.32- 114.32	84.32
182 Decane					CAS #: 124-18-5		
10.396	10.396 (1.129)	57	1331062	50.0000	50.000	80.00- 120.00	100.00
10.396	10.396 (1.129)	71	438969			2.98- 62.98	32.98
10.396	10.396 (1.129)	142	68107			0.00- 35.12	5.12
183 4-Ethyltoluene					CAS #: 622-96-8		
10.453	10.453 (1.135)	120	670747	50.0000	50.000	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
183 4-Ethyltoluene (continued)							
10.453	10.453 (1.135)	105	2181880			295.29- 355.29	325.29
184 2-Chlorotoluene					CAS #: 95-49-8		
10.482	10.482 (1.138)	126	556277	50.0000	50.000	80.00- 120.00	100.00
10.482	10.482 (1.138)	91	1974855			325.01- 385.01	355.01
10.482	10.482 (1.138)	65	277603			19.90- 79.90	49.90
185 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
10.503	10.503 (1.141)	120	947576	50.0000	50.000	80.00- 120.00	100.00
10.503	10.503 (1.141)	105	1953360			176.14- 236.14	206.14
188 alpha Methyl Styrene					CAS #: 98-83-9		
10.704	10.704 (1.163)	118	974737	50.0000	50.000	80.00- 120.00	100.00
10.704	10.704 (1.163)	103	552587			26.69- 86.69	56.69
189 tert-Butylbenzene					CAS #: 98-06-6		
10.783	10.783 (1.171)	119	1797476	50.0000	50.000	80.00- 120.00	100.00
10.783	10.783 (1.171)	134	440704			0.00- 54.52	24.52
10.783	10.783 (1.171)	91	1162526			34.68- 94.68	64.68
190 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
10.833	10.833 (1.177)	105	1852118	50.0000	50.000	80.00- 120.00	100.00
10.833	10.833 (1.177)	120	872750			17.12- 77.12	47.12
192 sec-Butylbenzene					CAS #: 135-98-8		
10.969	10.969 (1.191)	134	571569	50.0000	50.000	80.00- 120.00	100.00
10.969	10.969 (1.191)	105	2680404			438.96- 498.96	468.96
10.969	10.969 (1.191)	91	425101			44.37- 104.37	74.37
194 p-Cymene					CAS #: 99-87-6		
11.083	11.083 (1.204)	119	2403196	50.0000	50.000	80.00- 120.00	100.00
11.083	11.083 (1.204)	134	646626			0.00- 56.91	26.91
11.083	11.083 (1.204)	91	573402			0.00- 53.86	23.86
195 1,3-Dichlorobenzene					CAS #: 541-73-1		
11.134	11.134 (1.209)	146	1295055	50.0000	50.000	80.00- 120.00	100.00
11.134	11.134 (1.209)	148	826035			33.78- 93.78	63.78
11.134	11.134 (1.209)	111	536098			11.40- 71.40	41.40
196 1,4-Dichlorobenzene					CAS #: 106-46-7		
11.212	11.212 (1.218)	146	1322504	50.0000	50.000	80.00- 120.00	100.00
11.212	11.212 (1.218)	148	842856			33.73- 93.73	63.73
11.212	11.212 (1.218)	111	521120			9.40- 69.40	39.40
199 alpha-Chlorotoluene					CAS #: 100-44-7		
11.334	11.334 (1.231)	91	1829042	50.0000	50.000	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
199 alpha-Chlorotoluene (continued)							
11.334	11.334 (1.231)	126	413028			0.00- 52.58	22.58
201 Undecane					CAS #: 1120-21-4		
11.406	11.406 (1.239)	57	1574132	50.0000	50.000	80.00- 120.00	100.00
11.406	11.406 (1.239)	43	1448659			62.03- 122.03	92.03
202 Butylbenzene					CAS #: 104-51-8		
11.434	11.434 (1.242)	134	628539	50.0000	50.000	80.00- 120.00	100.00
11.434	11.434 (1.242)	91	2218182			322.91- 382.91	352.91
11.434	11.434 (1.242)	92	1165520			155.43- 215.43	185.43
204 1,2-Dichlorobenzene					CAS #: 95-50-1		
11.549	11.549 (1.254)	146	1251476	50.0000	50.000	80.00- 120.00	100.00
11.549	11.549 (1.254)	148	796682			33.66- 93.66	63.66
11.549	11.549 (1.254)	111	530135			12.36- 72.36	42.36
206 1,2-Dibromo-3-chloropropane					CAS #: 96-12-8		
12.258	12.258 (1.331)	157	787948	50.0000	50.000	80.00- 120.00	100.00
12.258	12.258 (1.331)	75	683687			56.77- 116.77	86.77
12.258	12.258 (1.331)	155	615909			48.17- 108.17	78.17
207 Dodecane					CAS #: 112-40-3		
12.358	12.358 (1.342)	57	1781296	61.8000	61.800	80.00- 120.00	100.00
12.358	12.358 (1.342)	43	1542933			56.62- 116.62	86.62
213 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
13.039	13.039 (1.416)	180	1240309	62.9500	62.950	80.00- 120.00	100.00
13.039	13.039 (1.416)	182	1176867			64.88- 124.88	94.88
215 Hexachlorobutadiene					CAS #: 87-68-3		
13.132	13.132 (1.426)	225	924664	64.3500	64.350	80.00- 120.00	100.00
13.132	13.132 (1.426)	223	586776			33.46- 93.46	63.46
216 Naphthalene					CAS #: 91-20-3		
13.340	13.340 (1.449)	128	328215	6.35000	6.350	80.00- 120.00	100.00
13.340	13.340 (1.449)	127	45000			0.00- 43.71	13.71
222 1,2,3-Trichlorobenzene					CAS #: 87-61-6		
13.619	13.619 (1.479)	180	1210522	66.5500	66.550	80.00- 120.00	100.00
13.619	13.619 (1.479)	182	1164904			66.23- 126.23	96.23
13.612	13.612 (1.478)	145	434958			5.93- 65.93	35.93

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd3.i
Lab File ID: 3081208.d
Lab Smp Id: ICAL Level #9
Analysis Type: VOA
Quant Type: ISTD
Operator: LD
Method File: /chem/msd3.i/12AUG21.b/321q0812a.m
Misc Info: 50ppbv(200ppbv)

Calibration Date: 12-AUG-2021
Calibration Time: 19:05
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	229903	137942	321864	229903	0.00
108 1,4-Difluorobenze	822152	493291	1151013	822152	0.00
153 Chlorobenzene-d5	775771	465463	1086079	775771	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.86	5.53	6.19	5.86	0.00
108 1,4-Difluorobenze	6.75	6.42	7.08	6.75	0.00
153 Chlorobenzene-d5	9.21	8.88	9.54	9.21	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msd3.i/12AUG21.b/3081208.d

Page 1

Date : 12-AUG-2021 19:05

Client ID:

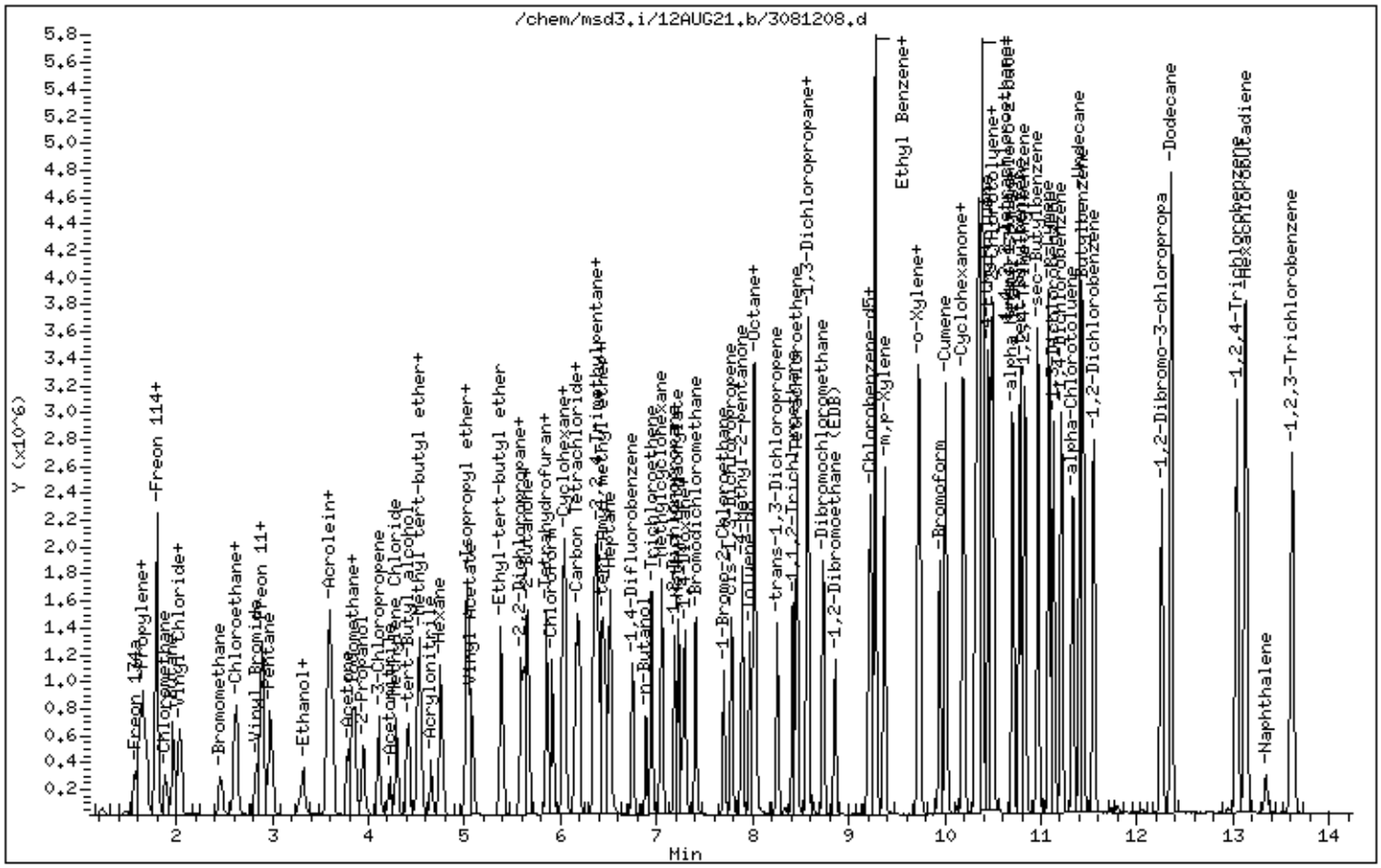
Instrument: msd3.i

Sample Info: 50ml 3018-2213

Operator: LD

Column phase: RTX-624

Column diameter: 0.25



US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msd3.i/12AUG21.b/3081219.d
Lab Smp Id: ICAL Level #9
Inj Date : 13-AUG-2021 01:04
Operator : gh Inst ID: msd3.i
Smp Info : 50ml #3018-2127
Misc Info : 50ppbv(200ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msd3.i/12AUG21.b/321q0812a.m
Meth Date : 13-Aug-2021 12:32 ugdc Quant Type: ISTD
Cal Date : 13-AUG-2021 01:04 Cal File: 3081219.d
Als bottle: 3 Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT20spICAL.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 90 Bromochloromethane					CAS #: 74-97-5		
5.858	5.858 (1.000)	130	241046	25.0000		80.00- 120.00	100.00
5.858	5.858 (1.000)	128	187741			47.29- 107.29	77.89
5.858	5.858 (1.000)	49	366468			122.83- 182.83	152.03
* 108 1,4-Difluorobenzene					CAS #: 540-36-3		
6.750	6.750 (1.000)	114	870120	25.0000		80.00- 120.00	100.00
6.750	6.750 (1.000)	88	131104			0.00- 45.09	15.07
* 153 Chlorobenzene-d5					CAS #: 3114-55-4		
9.207	9.207 (1.000)	117	807251	25.0000		80.00- 120.00	100.00
9.207	9.207 (1.000)	82	433208			23.62- 83.62	53.66
3 Freon 143a					CAS #: 420-46-2		
1.520	1.520 (0.260)	65	252302	50.0000	50.000	80.00- 120.00	100.00
1.520	1.520 (0.260)	69	589108			217.09- 277.09	233.49
1.520	1.520 (0.260)	64	61363			0.00- 55.87	24.32
6 Propane					CAS #: 74-98-6		
1.618	1.618 (0.276)	43	124313	50.0000	50.000	80.00- 120.00	100.00

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
6 Propane (continued)							
1.618	1.618 (0.276)	39	91538			41.62- 101.62	73.64
1.618	1.618 (0.276)	41	69433			22.97- 82.97	55.85
13 Freon 142b					CAS #: 75-68-3		
1.842	1.842 (0.314)	65	785073	50.0000	50.000	80.00- 120.00	100.00
1.842	1.842 (0.314)	45	222468			0.00- 58.17	28.34
36 1-Pentene					CAS #: 109-67-1		
2.920	2.920 (0.498)	55	466892	50.0000	50.000	80.00- 120.00	100.00
2.920	2.920 (0.498)	42	623371			99.17- 159.17	133.52
40 Freon 123a					CAS #: 354-23-4		
3.423	3.423 (0.584)	117	562046	50.0000	50.000	80.00- 120.00	100.00
3.423	3.423 (0.584)	67	726215			103.13- 163.13	129.21
41 Freon 123					CAS #: 306-83-2		
3.521	3.521 (0.601)	83	795866	50.0000	50.000	80.00- 120.00	100.00
3.521	3.521 (0.601)	133	186340			0.00- 51.81	23.41
3.521	3.521 (0.601)	85	531087			37.13- 97.13	66.73
55 Cyclopentene					CAS #: 142-29-0		
4.123	4.123 (0.704)	67	830926	50.0000	50.000	80.00- 120.00	100.00
4.123	4.123 (0.704)	68	314261			7.90- 67.90	37.82
4.123	4.123 (0.704)	53	212188			0.00- 54.87	25.54
56 Methyl Acetate					CAS #: 79-20-9		
4.151	4.151 (0.709)	43	890748	50.0000	50.000	80.00- 120.00	100.00
4.151	4.151 (0.709)	74	146758			0.00- 47.15	16.48
74 Chloroprene					CAS #: 126-99-8		
5.088	5.088 (0.869)	53	741460	50.0000	50.000	80.00- 120.00	100.00
5.102	5.102 (0.871)	88	310167			12.33- 72.33	41.83
5.088	5.088 (0.869)	50	214896			0.00- 57.62	28.98
75 1-Propanol					CAS #: 71-23-8		
5.158	5.158 (0.881)	59	97396	50.0000	50.000	80.00- 120.00	100.00
5.158	5.158 (0.881)	42	86020			53.89- 113.89	88.32
5.158	5.158 (0.881)	41	58724			24.09- 84.09	60.29
88 Methyl Acrylate					CAS #: 96-33-3		
5.718	5.718 (0.976)	55	857142	50.0000	50.000	80.00- 120.00	100.00
5.718	5.718 (0.976)	85	115123			0.00- 43.24	13.43
5.718	5.718 (0.976)	58	74903			0.00- 38.83	8.74
103 Isobutanol					CAS #: 78-83-1		
6.320	6.320 (1.079)	39	129458	50.0000	50.000	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
103 Isobutanol (continued)							
6.320	6.320 (1.079)	43	439538			327.69- 387.69	339.52
6.320	6.320 (1.079)	41	338132			237.56- 297.56	261.19
113 Ethyl acrylate					CAS #: 140-88-5		
7.036	7.036 (0.764)	99	68173	50.0000	50.000	80.00- 120.00	100.00
7.036	7.036 (0.764)	45	107268			124.67- 184.67	157.35
7.036	7.036 (0.764)	55	1126493			1601.30-1661.30	1652.40
115 2-Pentanone					CAS #: 107-87-9		
7.129	7.129 (0.774)	43	1360220	50.0000	50.000	80.00- 120.00	100.00
7.129	7.129 (0.774)	58	103496			0.00- 37.25	7.61
7.136	7.136 (0.775)	86	197438			0.00- 45.08	14.52
145 Butyl Acetate					CAS #: 123-86-4		
8.626	8.626 (1.278)	56	602176	50.0000	50.000	80.00- 120.00	100.00
8.626	8.626 (1.278)	73	208701			5.16- 65.16	34.66
8.626	8.626 (1.278)	43	1528502			214.00- 274.00	253.83
157 1,1,1,2-Tetrachloroethane					CAS #: 630-20-6		
9.300	9.300 (1.010)	131	717230	50.0000	50.000	80.00- 120.00	100.00
9.207	9.207 (1.000)	117	807251			38.22- 98.22	112.55
9.293	9.293 (1.009)	95	267022			7.54- 67.54	37.23
166 2-Heptanone					CAS #: 110-43-0		
9.801	9.801 (1.673)	58	908309	50.0000	50.000	80.00- 120.00	100.00
9.801	9.801 (1.673)	43	1571782			133.36- 193.36	173.04
172 D-Limonene					CAS #: 5989-27-5		
11.033	11.033 (1.198)	68	802168	50.0000	50.000	80.00- 120.00	100.00
11.033	11.033 (1.198)	93	595228			42.08- 102.08	74.20
186 4-Chlorotoluene					CAS #: 106-43-4		
10.582	10.582 (1.149)	126	640236	50.0000	50.000	80.00- 120.00	100.00
10.575	10.575 (1.149)	91	2054544			305.94- 365.94	320.90
10.575	10.575 (1.149)	63	296776			15.44- 75.44	46.35
197 1,2,3-Trimethylbenzene					CAS #: 526-73-8		
11.212	11.212 (1.218)	120	852217	50.0000	50.000	80.00- 120.00	100.00
11.212	11.212 (1.218)	105	1970886			206.43- 266.43	231.27
11.212	11.212 (1.218)	77	233890			0.00- 58.29	27.44
205 Hexachloroethane					CAS #: 67-72-1		
11.728	11.728 (1.274)	201	521586	50.0000	50.000	80.00- 120.00	100.00
11.728	11.728 (1.274)	117	721252			109.77- 169.77	138.28

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
208 1,3,5-Trichlorobenzene					CAS #: 108-70-3		
12.387	12.387 (1.345)	180	1263006	50.0000	50.000	80.00- 120.00	100.00
12.387	12.387 (1.345)	182	1205836			65.79- 125.79	95.47
210 alpha-Pinene					CAS #: 80-56-8		
9.973	9.973 (1.083)	93	1409960	50.0000	50.000	80.00- 120.00	100.00
9.973	9.973 (1.083)	77	425078			0.13- 60.13	30.15
214 beta-Pinene					CAS #: 127-91-3		
10.560	10.560 (1.147)	93	1051257	50.0000	50.000	80.00- 120.00	100.00
10.575	10.575 (1.149)	91	2054544			145.95- 205.95	195.44

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd3.i
Lab File ID: 3081219.d
Lab Smp Id: ICAL Level #9
Analysis Type: VOA
Quant Type: ISTD
Operator: gh
Method File: /chem/msd3.i/12AUG21.b/321q0812a.m
Misc Info: 50ppbv(200ppbv)

Calibration Date: 13-AUG-2021
Calibration Time: 01:04
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	241046	144628	337464	241046	0.00
108 1,4-Difluorobenze	870120	522072	1218168	870120	0.00
153 Chlorobenzene-d5	807251	484351	1130151	807251	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.86	5.53	6.19	5.86	0.00
108 1,4-Difluorobenze	6.75	6.42	7.08	6.75	0.00
153 Chlorobenzene-d5	9.21	8.88	9.54	9.21	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msd3.i/12AUG21.b/3081219.d

Date : 13-AUG-2021 01:04

Client ID:

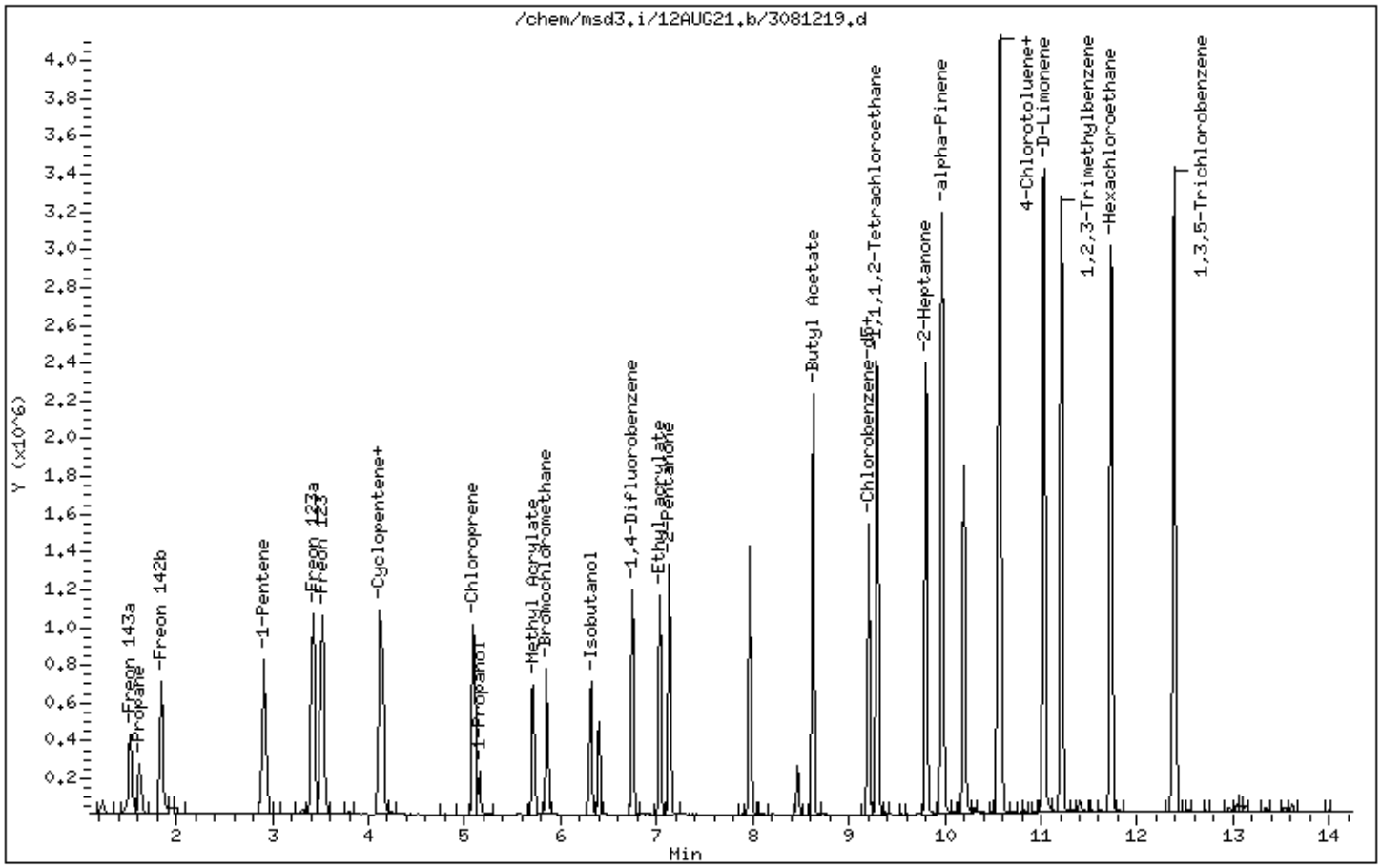
Instrument: msd3.i

Sample Info: 50ml #3018-2127

Operator: gh

Column phase: RTX-624

Column diameter: 0.25



US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msd3.i/12AUG21.b/3081209.d
Lab Smp Id: ICAL Level #10
Inj Date : 12-AUG-2021 19:32
Operator : LD Inst ID: msd3.i
Smp Info : 100ml 3018-2213
Misc Info : 100ppbv(200ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msd3.i/12AUG21.b/321q0812a.m
Meth Date : 13-Aug-2021 08:08 ugdc Quant Type: ISTD
Cal Date : 12-AUG-2021 19:32 Cal File: 3081209.d
Als bottle: 13 Calibration Sample, Level: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT20ICAL.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
4 Freon 134a					CAS #: 811-97-2		
1.576	1.577 (0.269)	83	604645	100.000	92.019	80.00- 120.00	100.00
1.576	1.577 (0.269)	69	494340			50.75- 110.75	81.76
1.576	1.577 (0.269)	51	103526			0.00- 49.76	17.12
5 Propylene					CAS #: 115-07-1		
1.618	1.619 (0.276)	41	613766	100.000	95.889	80.00- 120.00	100.00
1.618	1.619 (0.276)	42	403498			36.66- 96.66	65.74
1.618	1.619 (0.276)	39	456829			44.11- 104.11	74.43
7 1,1-Difluoroethane					CAS #: 75-37-6		
1.632	1.633 (0.279)	65	367504	100.000	91.404	80.00- 120.00	100.00
1.632	1.633 (0.279)	51	816284			217.13- 277.13	222.12
1.646	1.633 (0.281)	47	295403			48.77- 108.77	80.38
8 Freon 12					CAS #: 75-71-8		
1.660	1.661 (0.283)	85	1683759	100.000	93.785	80.00- 120.00	100.00
1.660	1.661 (0.283)	87	545164			2.35- 62.35	32.38
9 Chlorodifluoromethane					CAS #: 75-45-6		
1.688	1.689 (0.288)	67	178112	100.000	78.039	80.00- 120.00	100.00

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE		RATIO
==	====== ========	====	========	=======	=======	==========		=====
9 Chlorodifluoromethane (continued)								
1.688	1.689 (0.288)	51	1484292			710.68- 770.68		833.35
10 Freon 114					CAS #: 76-14-2			
1.800	1.800 (0.307)	135	1263736	100.000	92.306	80.00- 120.00		100.00
1.800	1.800 (0.307)	137	408896			2.06- 62.06		32.36
12 Isobutane					CAS #: 75-28-5			
1.814	1.800 (0.310)	43	1399910	100.000	96.533	80.00- 120.00		100.00
1.814	1.800 (0.310)	42	459198			2.70- 62.70		32.80
1.814	1.800 (0.310)	58	47050			0.00- 33.44		3.36
15 Chloromethane					CAS #: 74-87-3			
1.884	1.884 (0.322)	50	721819	100.000	92.240	80.00- 120.00		100.00
1.884	1.884 (0.322)	52	231683			3.38- 63.38		32.10
18 Butane					CAS #: 106-97-8			
1.968	1.968 (0.336)	58	155073	100.000	82.914	80.00- 120.00		100.00
1.968	1.968 (0.336)	43	1210323			760.51- 820.51		780.49
19 Vinyl Chloride					CAS #: 75-01-4			
2.010	2.010 (0.343)	62	702144	100.000	82.040	80.00- 120.00		100.00
2.010	2.010 (0.343)	64	207527			0.32- 60.32		29.56
20 1,3-Butadiene					CAS #: 106-99-0			
2.052	2.038 (0.350)	54	618025	100.000	74.492	80.00- 120.00		100.00
2.038	2.038 (0.348)	39	632247			72.94- 132.94		102.30
24 Bromomethane					CAS #: 74-83-9			
2.458	2.458 (0.420)	94	560784	100.000	87.522	80.00- 120.00		100.00
2.458	2.458 (0.420)	96	523846			63.18- 123.18		93.41
30 Chloroethane					CAS #: 75-00-3			
2.598	2.598 (0.443)	64	343724	100.000	91.205	80.00- 120.00		100.00
2.598	2.598 (0.443)	66	105593			1.10- 61.10		30.72
2.598	2.598 (0.443)	49	118849			5.46- 65.46		34.58
31 Isopentane					CAS #: 78-78-4			
2.626	2.626 (0.448)	43	926846	100.000	94.895	80.00- 120.00		100.00
2.626	2.626 (0.448)	57	608489			36.12- 96.12		65.65
32 Vinyl Bromide					CAS #: 593-60-2			
2.836	2.836 (0.484)	106	633279	100.000	92.276	80.00- 120.00		100.00
2.836	2.836 (0.484)	108	590084			63.01- 123.01		93.18
33 Freon 11					CAS #: 75-69-4			
2.892	2.892 (0.494)	101	1851895	100.000	92.629	80.00- 120.00		100.00

					AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
RT	EXP RT (REL RT)	MASS	RESPONSE					
33 Freon 11 (continued)								
2.892	2.892 (0.494)	103	1205140				36.55- 96.55	65.08
34 Dichlorofluoromethane						CAS #: 75-43-4		
2.906	2.906 (0.496)	67	1420170	100.000		93.308	80.00- 120.00	100.00
2.906	2.906 (0.496)	69	445107				1.82- 61.82	31.34
35 Pentane						CAS #: 109-66-0		
2.976	2.976 (0.508)	43	1477795	100.000		91.302	80.00- 120.00	100.00
2.976	2.976 (0.508)	57	223740				0.00- 45.52	15.14
2.976	2.976 (0.508)	72	120216				0.00- 38.25	8.13
39 Ethanol						CAS #: 64-17-5		
3.283	3.284 (0.560)	46	134327	100.000		83.911	80.00- 120.00	100.00
3.283	3.284 (0.560)	45	297689				213.29- 273.29	221.62
38 Ethyl Ether						CAS #: 60-29-7		
3.325	3.326 (0.568)	74	307549	100.000		91.925	80.00- 120.00	100.00
3.325	3.326 (0.568)	59	531078				143.51- 203.51	172.68
3.325	3.326 (0.568)	45	537526				143.53- 203.53	174.78
42 Acrolein						CAS #: 107-02-8		
3.591	3.591 (0.613)	55	238592	100.000		95.557	80.00- 120.00	100.00
3.591	3.591 (0.613)	56	328977				104.02- 164.02	137.88
43 Freon 113						CAS #: 76-13-1		
3.591	3.591 (0.613)	151	1196653	100.000		90.359	80.00- 120.00	100.00
3.591	3.591 (0.613)	153	767585				34.03- 94.03	64.14
3.591	3.591 (0.613)	101	1435513				89.72- 149.72	119.96
44 1,1-Dichloroethene						CAS #: 75-35-4		
3.619	3.619 (0.618)	96	655153	100.000		88.087	80.00- 120.00	100.00
3.619	3.619 (0.618)	98	415805				32.85- 92.85	63.47
3.619	3.619 (0.618)	61	1302534				165.91- 225.91	198.81
47 Acetone						CAS #: 67-64-1		
3.787	3.787 (0.646)	58	389560	100.000		92.496	80.00- 120.00	100.00
3.787	3.787 (0.646)	43	1382716				325.09- 385.09	354.94
49 Iodomethane						CAS #: 74-88-4		
3.843	3.829 (0.656)	142	1651631	100.000		102.23	80.00- 120.00	100.00
3.843	3.829 (0.656)	127	767674				16.98- 76.98	46.48
48 Carbon Disulfide						CAS #: 75-15-0		
3.857	3.857 (0.658)	76	1789007	100.000		94.561	80.00- 120.00	100.00

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
52 2-Propanol					CAS #: 67-63-0		
3.955	3.941 (0.675)	45	1535368	100.000	94.811	80.00- 120.00	100.00
3.955	3.941 (0.675)	43	301142			0.00- 49.76	19.61
54 3-Chloropropene					CAS #: 107-05-1		
4.109	4.109 (0.701)	76	298085	100.000	91.278	80.00- 120.00	100.00
4.109	4.109 (0.701)	41	1104294			344.92- 404.92	370.46
57 Acetonitrile					CAS #: 75-05-8		
4.221	4.221 (0.721)	41	689078	100.000	96.552	80.00- 120.00	100.00
4.221	4.221 (0.721)	40	356374			24.08- 84.08	51.72
4.221	4.221 (0.721)	38	84114			0.00- 42.84	12.21
59 Methylene Chloride					CAS #: 75-09-2		
4.291	4.291 (0.732)	49	992176	100.000	93.988	80.00- 120.00	100.00
4.291	4.291 (0.732)	84	562747			27.95- 87.95	56.72
4.291	4.291 (0.732)	51	296150			0.78- 60.78	29.85
62 tert-Butyl alcohol					CAS #: 75-65-0		
4.417	4.417 (0.754)	59	1786499	100.000	96.297	80.00- 120.00	100.00
4.417	4.417 (0.754)	41	397618			0.00- 52.58	22.26
4.417	4.417 (0.754)	57	200199			0.00- 40.94	11.21
63 Methyl tert-butyl ether					CAS #: 1634-04-4		
4.515	4.515 (0.771)	73	1914929	100.000	94.511	80.00- 120.00	100.00
4.515	4.515 (0.771)	57	543640			0.00- 58.27	28.39
4.515	4.515 (0.771)	41	551969			0.00- 58.78	28.82
64 trans-1,2-Dichloroethene					CAS #: 156-60-5		
4.543	4.543 (0.775)	98	436507	100.000	92.940	80.00- 120.00	100.00
4.543	4.543 (0.775)	61	1176989			236.85- 296.85	269.64
4.543	4.543 (0.775)	96	687583			126.72- 186.72	157.52
66 Acrylonitrile					CAS #: 107-13-1		
4.655	4.655 (0.795)	52	516225	100.000	82.054	80.00- 120.00	100.00
4.655	4.655 (0.795)	53	614443			88.92- 148.92	119.03
67 Hexane					CAS #: 110-54-3		
4.753	4.753 (0.811)	57	1280858	100.000	93.718	80.00- 120.00	100.00
4.753	4.753 (0.811)	43	850975			36.74- 96.74	66.44
4.753	4.753 (0.811)	86	165108			0.00- 43.22	12.89
72 Isopropyl ether					CAS #: 108-20-3		
5.018	5.019 (0.857)	45	2889587	100.000	96.570	80.00- 120.00	100.00
5.032	5.033 (0.859)	87	616543			0.00- 51.44	21.34
5.032	5.019 (0.859)	59	308106			0.00- 40.81	10.66

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
71 1,1-Dichloroethane					CAS #: 75-34-3		
5.046	5.047 (0.861)	63	1320881	100.000	90.941	80.00- 120.00	100.00
5.046	5.047 (0.861)	65	397780			0.56- 60.56	30.11
73 Vinyl Acetate					CAS #: 108-05-4		
5.088	5.089 (0.869)	86	175117	100.000	97.793	80.00- 120.00	100.00
5.074	5.075 (0.866)	43	2566223			1473.01-1533.01	1465.43
79 Ethyl-tert-butyl ether					CAS #: 637-92-3		
5.382	5.382 (0.919)	59	2637954	100.000	97.119	80.00- 120.00	100.00
5.382	5.382 (0.919)	87	918563			4.28- 64.28	34.82
5.382	5.382 (0.919)	41	524963			0.00- 49.94	19.90
84 2,2-Dichloropropane					CAS #: 594-20-7		
5.592	5.592 (0.955)	77	1302664	100.000	95.171	80.00- 120.00	100.00
5.592	5.592 (0.955)	79	422505			2.43- 62.43	32.43
5.592	5.592 (0.955)	97	297221			0.00- 53.03	22.82
85 cis-1,2-Dichloroethene					CAS #: 156-59-2		
5.620	5.620 (0.959)	98	470125	100.000	94.360	80.00- 120.00	100.00
5.620	5.620 (0.959)	96	704833			121.91- 181.91	149.92
5.620	5.620 (0.959)	61	1606827			313.72- 373.72	341.79
86 2-Butanone					CAS #: 78-93-3		
5.648	5.648 (0.964)	72	353757	100.000	97.294	80.00- 120.00	100.00
5.662	5.662 (0.967)	43	3951952			1111.25-1171.25	1117.14
5.648	5.648 (0.964)	57	143266			11.22- 71.22	40.50
87 Ethyl Acetate					CAS #: 141-78-6		
5.662	5.662 (0.967)	45	314537	100.000	91.489	80.00- 120.00	100.00
5.620	5.620 (0.959)	61	1606827			469.17- 529.17	510.85
5.662	5.662 (0.967)	70	190391			29.38- 89.38	60.53
89 Tetrahydrofuran					CAS #: 109-99-9		
5.858	5.858 (1.000)	42	998761	100.000	89.603	80.00- 120.00	100.00
5.858	5.858 (1.000)	71	305757			0.09- 60.09	30.61
5.858	5.858 (1.000)	72	317658			2.13- 62.13	31.81
* 90 Bromochloromethane					CAS #: 74-97-5		
5.858	5.858 (1.000)	130	223965	25.0000		80.00- 120.00	100.00
5.858	5.858 (1.000)	128	174233			47.29- 107.29	77.79
5.858	5.858 (1.000)	49	343905			122.83- 182.83	153.55
92 Chloroform					CAS #: 67-66-3		
5.914	5.914 (1.010)	83	1481268	100.000	92.651	80.00- 120.00	100.00
5.914	5.914 (1.010)	85	962912			34.29- 94.29	65.01

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
94 Cyclohexane					CAS #: 110-82-7		
6.026	6.026 (1.029)	84	910145	100.000	93.011	80.00- 120.00	100.00
6.026	6.026 (1.029)	56	1328827			116.85- 176.85	146.00
6.026	6.026 (1.029)	41	784758			57.77- 117.77	86.22
96 1,1,1-Trichloroethane					CAS #: 71-55-6		
6.054	6.054 (1.033)	97	1609998	100.000	92.707	80.00- 120.00	100.00
6.054	6.054 (1.033)	99	1023081			34.55- 94.55	63.55
97 Carbon Tetrachloride					CAS #: 56-23-5		
6.166	6.166 (1.053)	119	1692501	100.000	100.60	80.00- 120.00	100.00
6.166	6.166 (1.053)	117	1763433			74.20- 134.20	104.19
99 1,1-Dichloropropene					CAS #: 563-58-6		
6.194	6.194 (0.918)	110	402755	100.000	95.613	80.00- 120.00	100.00
6.194	6.194 (0.918)	75	1047403			229.39- 289.39	260.06
101 2,2,4-Trimethylpentane					CAS #: 540-84-1		
6.362	6.348 (1.086)	57	4133059	100.000	94.563	80.00- 120.00	100.00
6.348	6.348 (1.084)	56	1290062			1.14- 61.14	31.21
6.348	6.348 (1.084)	41	1197349			0.00- 59.12	28.97
102 Benzene					CAS #: 71-43-2		
6.390	6.376 (0.947)	78	1942478	100.000	91.035	80.00- 120.00	100.00
6.390	6.376 (0.947)	77	465705			0.00- 53.48	23.97
$ 104 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
6.404	6.404 (1.093)	65	305447	25.0000	24.555	80.00- 120.00	100.00
6.404	6.404 (1.093)	67	170908			20.51- 80.51	55.95
105 tert-Amyl methyl ether					CAS #: 994-05-8		
6.446	6.446 (0.955)	87	533934	100.000	96.910	80.00- 120.00	100.00
6.432	6.446 (0.953)	73	2093521			363.80- 423.80	392.09
6.432	6.432 (0.953)	55	672259			97.13- 157.13	125.91
106 1,2-Dichloroethane					CAS #: 107-06-2		
6.474	6.474 (0.959)	62	1155866	100.000	90.829	80.00- 120.00	100.00
6.474	6.474 (0.959)	64	363748			1.41- 61.41	31.47
107 Heptane					CAS #: 142-82-5		
6.516	6.516 (0.965)	71	848711	100.000	100.61	80.00- 120.00	100.00
6.516	6.516 (0.965)	43	1348356			146.45- 206.45	158.87
6.516	6.516 (0.965)	57	965704			90.20- 150.20	113.78
* 108 1,4-Difluorobenzene					CAS #: 540-36-3		
6.750	6.750 (1.000)	114	811726	25.0000		80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
* 108 1,4-Difluorobenzene (continued)							
6.750	6.750 (1.000)	88	122478			0.00- 45.09	15.09
110 n-Butanol					CAS #: 71-36-3		
6.893	6.893 (1.021)	56	704926	100.000	96.464	80.00- 120.00	100.00
6.893	6.886 (1.021)	41	522570			44.46- 104.46	74.13
6.893	6.886 (1.021)	43	413805			28.14- 88.14	58.70
111 Trichloroethene					CAS #: 79-01-6		
6.950	6.943 (1.030)	95	966637	100.000	92.990	80.00- 120.00	100.00
6.950	6.950 (1.030)	130	1047476			79.68- 139.68	108.36
6.950	6.943 (1.030)	97	624243			34.74- 94.74	64.58
127 Methylcyclohexane					CAS #: 108-87-2		
7.050	7.051 (1.045)	83	1246392	100.000	95.178	80.00- 120.00	100.00
7.050	7.051 (1.045)	98	578405			17.10- 77.10	46.41
7.050	7.051 (1.045)	55	1255809			71.11- 131.11	100.76
114 1,2-Dichloropropane					CAS #: 78-87-5		
7.187	7.187 (1.065)	63	872630	100.000	91.441	80.00- 120.00	100.00
7.187	7.187 (1.065)	62	613654			40.55- 100.55	70.32
7.187	7.187 (1.065)	41	649408			36.07- 96.07	74.42
116 Methyl Methacrylate					CAS #: 80-62-6		
7.230	7.230 (0.785)	69	794230	100.000	95.971	80.00- 120.00	100.00
7.230	7.230 (0.785)	41	1420959			160.67- 220.67	178.91
7.230	7.230 (0.785)	100	331389			11.33- 71.33	41.72
117 1,4-Dioxane					CAS #: 123-91-1		
7.273	7.273 (1.077)	88	566650	100.000	95.040	80.00- 120.00	100.00
7.273	7.273 (1.077)	58	476527			56.19- 116.19	84.10
7.273	7.273 (1.077)	57	161663			0.00- 59.32	28.53
118 Dibromomethane					CAS #: 74-95-3		
7.301	7.294 (0.793)	174	915355	100.000	93.301	80.00- 120.00	100.00
7.294	7.294 (0.792)	93	883189			66.88- 126.88	96.49
7.294	7.294 (0.792)	95	729464			49.90- 109.90	79.69
122 Bromodichloromethane					CAS #: 75-27-4		
7.409	7.409 (1.098)	83	1623890	100.000	93.524	80.00- 120.00	100.00
7.409	7.409 (1.098)	85	1051767			33.85- 93.85	64.77
151 1-Bromo-2-Chloroethane					CAS #: 107-04-0		
7.702	7.702 (1.141)	63	1639281	100.000	96.237	80.00- 120.00	100.00
7.702	7.702 (1.141)	65	496302			0.05- 60.05	30.28
7.702	7.702 (1.141)	144	180067			0.00- 40.91	10.98

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
126 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.781	7.781 (1.153)	75	1255573	100.000	95.059	80.00- 120.00	100.00
7.781	7.781 (1.153)	77	398078			1.50- 61.50	31.70
7.781	7.781 (1.153)	39	902397			43.12- 103.12	71.87
131 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.889	7.889 (1.169)	58	838749	100.000	90.738	80.00- 120.00	100.00
7.889	7.889 (1.169)	43	2332873			247.84- 307.84	278.14
7.889	7.889 (1.169)	85	327847			8.73- 68.73	39.09
$ 134 Toluene-d8					CAS #: 2037-26-5		
7.967	7.967 (1.180)	98	824578	25.0000	25.119	80.00- 120.00	100.00
7.967	7.967 (1.180)	70	87651			0.00- 42.00	10.63
7.967	7.967 (1.180)	100	556718			37.14- 97.14	67.52
136 Octane					CAS #: 111-65-9		
8.010	8.010 (1.187)	57	865953	100.000	90.858	80.00- 120.00	100.00
8.010	8.010 (1.187)	85	867428			67.77- 127.77	100.17
8.010	8.010 (1.187)	43	2221534			225.27- 285.27	256.54
137 Toluene					CAS #: 108-88-3		
8.025	8.025 (1.189)	91	2642832	100.000	93.410	80.00- 120.00	100.00
8.025	8.025 (1.189)	92	1540142			28.13- 88.13	58.28
139 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
8.254	8.254 (0.897)	75	1234292	100.000	94.024	80.00- 120.00	100.00
8.254	8.254 (0.897)	77	388174			1.93- 61.93	31.45
8.254	8.254 (0.897)	39	841804			38.37- 98.37	68.20
141 1,1,2-Trichloroethane					CAS #: 79-00-5		
8.419	8.419 (0.914)	97	917778	100.000	93.611	80.00- 120.00	100.00
8.419	8.419 (0.914)	99	564788			31.66- 91.66	61.54
8.419	8.419 (0.914)	83	786245			55.24- 115.24	85.67
142 Tetrachloroethene					CAS #: 127-18-4		
8.462	8.462 (0.919)	166	1340991	100.000	93.776	80.00- 120.00	100.00
8.462	8.462 (0.919)	129	1055281			48.51- 108.51	78.69
8.462	8.462 (0.919)	131	1019744			45.64- 105.64	76.04
144 1,3-Dichloropropane					CAS #: 142-28-9		
8.569	8.569 (1.270)	76	1264325	100.000	90.210	80.00- 120.00	100.00
8.569	8.569 (1.270)	41	1584639			96.83- 156.83	125.33
8.569	8.569 (1.270)	78	416068			2.46- 62.46	32.91
143 2-Hexanone					CAS #: 591-78-6		
8.576	8.576 (0.932)	58	1320176	100.000	95.592	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
143 2-Hexanone (continued)							
8.576	8.576 (0.932)	43	2630553			169.24- 229.24	199.26
8.576	8.576 (0.932)	100	248874			0.00- 48.72	18.85
146 Dibromochloromethane					CAS #: 124-48-1		
8.734	8.734 (0.949)	129	1900765	100.000	97.642	80.00- 120.00	100.00
8.734	8.734 (0.949)	127	1480641			47.05- 107.05	77.90
148 1,2-Dibromoethane (EDB)					CAS #: 106-93-4		
8.856	8.856 (0.962)	107	1490644	100.000	94.117	80.00- 120.00	100.00
8.856	8.856 (0.962)	109	1402968			64.74- 124.74	94.12
* 153 Chlorobenzene-d5					CAS #: 3114-55-4		
9.207	9.207 (1.000)	117	767872	25.0000		80.00- 120.00	100.00
9.207	9.207 (1.000)	82	411016			23.62- 83.62	53.53
154 Chlorobenzene					CAS #: 108-90-7		
9.235	9.235 (1.003)	112	2256749	100.000	92.638	80.00- 120.00	100.00
9.235	9.235 (1.003)	114	729883			2.19- 62.19	32.34
9.235	9.228 (1.003)	77	1200686			23.66- 83.66	53.20
155 Ethyl Benzene					CAS #: 100-41-4		
9.278	9.278 (1.008)	106	1138909	100.000	94.522	80.00- 120.00	100.00
9.278	9.278 (1.008)	91	3533324			282.43- 342.43	310.24
156 Nonane					CAS #: 111-84-2		
9.278	9.278 (1.008)	43	2282718	100.000	93.415	80.00- 120.00	100.00
9.278	9.278 (1.008)	57	1967753			55.73- 115.73	86.20
9.278	9.278 (1.008)	85	670320			0.00- 58.99	29.36
158 m,p-Xylene					CAS #: 108-38-3		
9.371	9.371 (1.018)	106	1406441	100.000	95.137	80.00- 120.00	100.00
9.371	9.371 (1.018)	91	2802458			169.66- 229.66	199.26
164 o-Xylene					CAS #: 95-47-6		
9.722	9.722 (1.056)	106	1346341	100.000	96.232	80.00- 120.00	100.00
9.722	9.722 (1.056)	91	2824386			180.55- 240.55	209.78
165 Styrene					CAS #: 100-42-5		
9.737	9.737 (1.058)	104	2328449	100.000	96.098	80.00- 120.00	100.00
9.737	9.737 (1.058)	78	1131255			18.65- 78.65	48.58
167 Bromoform					CAS #: 75-25-2		
9.944	9.944 (1.080)	173	1811244	100.000	98.196	80.00- 120.00	100.00
9.944	9.944 (1.080)	171	931553			21.64- 81.64	51.43

				AMOUNTS				
					CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE		(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========		=======	=======	==========	=====
168 Cumene						CAS #: 98-82-8		
10.009	10.009 (1.087)	105	4227785	100.000	94.742	80.00- 120.00		100.00
10.009	10.009 (1.087)	120	1158081			0.00- 57.04		27.39
10.009	10.009 (1.087)	51	510771			0.00- 41.95		12.08
169 Cyclohexanone						CAS #: 108-94-1		
10.188	10.188 (1.107)	55	1747294	100.000	84.886	80.00- 120.00		100.00
10.188	10.188 (1.107)	98	674306			8.59- 68.59		38.59
10.188	10.188 (1.107)	42	1323997			46.18- 106.18		75.77
$ 170 4-Bromofluorobenzene						CAS #: 460-00-4		
10.202	10.202 (1.108)	174	509615	25.0000	25.242	80.00- 120.00		100.00
10.195	10.195 (1.107)	95	614226			92.25- 152.25		120.53
10.202	10.202 (1.108)	176	474547			63.07- 123.07		93.12
175 1,1,2,2-Tetrachloroethane						CAS #: 79-34-5		
10.317	10.317 (1.121)	83	2011313	100.000	92.325	80.00- 120.00		100.00
10.317	10.317 (1.121)	85	1299373			34.44- 94.44		64.60
177 Bromobenzene						CAS #: 108-86-1		
10.345	10.338 (1.124)	156	1352478	100.000	95.513	80.00- 120.00		100.00
10.345	10.346 (1.124)	158	1307572			67.20- 127.20		96.68
10.338	10.338 (1.123)	77	2182788			131.36- 191.36		161.39
178 Propylbenzene						CAS #: 103-65-1		
10.360	10.360 (1.125)	120	1202597	100.000	93.909	80.00- 120.00		100.00
10.360	10.360 (1.125)	91	4946593	100.000	93.263	385.23- 445.23		411.33
10.360	10.360 (1.125)	105	189875			0.00- 46.02		15.79
181 trans-1,4-Dichloro-2-butene						CAS #: 110-57-6		
10.374	10.374 (1.127)	53	509012	100.000	90.643	80.00- 120.00		100.00
10.374	10.374 (1.127)	89	356106			40.38- 100.38		69.96
10.381	10.381 (1.128)	75	2153087			394.61- 454.61		422.99
179 1,2,3-Trichloropropane						CAS #: 96-18-4		
10.388	10.389 (1.128)	110	648218	100.000	92.486	80.00- 120.00		100.00
10.381	10.381 (1.128)	75	2153078			301.57- 361.57		332.15
10.381	10.381 (1.128)	61	541666			54.32- 114.32		83.56
182 Decane						CAS #: 124-18-5		
10.396	10.396 (1.129)	57	2541540	100.000	85.559	80.00- 120.00		100.00
10.396	10.396 (1.129)	71	844825			2.98- 62.98		33.24
10.396	10.396 (1.129)	142	129554			0.00- 35.12		5.10
183 4-Ethyltoluene						CAS #: 622-96-8		
10.453	10.453 (1.135)	120	1285772	100.000	92.915	80.00- 120.00		100.00

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE		RATIO
==	====== ========	====	========	=======	=======	==========		=====
183 4-Ethyltoluene (continued)								
10.453	10.453 (1.135)	105	4352876			295.29- 355.29		338.54
184 2-Chlorotoluene					CAS #: 95-49-8			
10.482	10.482 (1.138)	126	1074165	100.000	93.459	80.00- 120.00		100.00
10.482	10.482 (1.138)	91	3813531			325.01- 385.01		355.02
10.482	10.482 (1.138)	65	543989			19.90- 79.90		50.64
185 1,3,5-Trimethylbenzene					CAS #: 108-67-8			
10.503	10.503 (1.141)	120	1835495	100.000	95.562	80.00- 120.00		100.00
10.503	10.503 (1.141)	105	3593141			176.14- 236.14		195.76
188 alpha Methyl Styrene					CAS #: 98-83-9			
10.711	10.704 (1.163)	118	1916270	100.000	100.67	80.00- 120.00		100.00
10.704	10.704 (1.163)	103	1083628			26.69- 86.69		56.55
189 tert-Butylbenzene					CAS #: 98-06-6			
10.782	10.783 (1.171)	119	3448941	100.000	95.420	80.00- 120.00		100.00
10.782	10.783 (1.171)	134	856121			0.00- 54.52		24.82
10.782	10.783 (1.171)	91	2294775			34.68- 94.68		66.54
190 1,2,4-Trimethylbenzene					CAS #: 95-63-6			
10.833	10.833 (1.177)	105	3571205	100.000	95.535	80.00- 120.00		100.00
10.833	10.833 (1.177)	120	1695972			17.12- 77.12		47.49
192 sec-Butylbenzene					CAS #: 135-98-8			
10.969	10.969 (1.191)	134	1099531	100.000	91.997	80.00- 120.00		100.00
10.969	10.969 (1.191)	105	5163080			438.96- 498.96		469.57
10.969	10.969 (1.191)	91	825657			44.37- 104.37		75.09
194 p-Cymene					CAS #: 99-87-6			
11.083	11.083 (1.204)	119	4637150	100.000	94.269	80.00- 120.00		100.00
11.083	11.083 (1.204)	134	1255126			0.00- 56.91		27.07
11.083	11.083 (1.204)	91	1100771			0.00- 53.86		23.74
195 1,3-Dichlorobenzene					CAS #: 541-73-1			
11.133	11.134 (1.209)	146	2520200	100.000	94.603	80.00- 120.00		100.00
11.133	11.134 (1.209)	148	1604410			33.78- 93.78		63.66
11.133	11.134 (1.209)	111	1037226			11.40- 71.40		41.16
196 1,4-Dichlorobenzene					CAS #: 106-46-7			
11.212	11.212 (1.218)	146	2564443	100.000	94.423	80.00- 120.00		100.00
11.212	11.212 (1.218)	148	1635551			33.73- 93.73		63.78
11.212	11.212 (1.218)	111	1013710			9.40- 69.40		39.53
199 alpha-Chlorotoluene					CAS #: 100-44-7			
11.334	11.334 (1.231)	91	3588081	100.000	97.400	80.00- 120.00		100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
199 alpha-Chlorotoluene (continued)							
11.334	11.334 (1.231)	126	810870			0.00- 52.58	22.60
201 Undecane					CAS #: 1120-21-4		
11.406	11.406 (1.239)	57	3040457	100.000	92.204	80.00- 120.00	100.00
11.406	11.406 (1.239)	43	2781285			62.03- 122.03	91.48
202 Butylbenzene					CAS #: 104-51-8		
11.434	11.434 (1.242)	134	1224367	100.000	93.103	80.00- 120.00	100.00
11.434	11.434 (1.242)	91	4295019			322.91- 382.91	350.80
11.434	11.434 (1.242)	92	2265932			155.43- 215.43	185.07
204 1,2-Dichlorobenzene					CAS #: 95-50-1		
11.549	11.549 (1.254)	146	2432446	100.000	94.237	80.00- 120.00	100.00
11.549	11.549 (1.254)	148	1544310			33.66- 93.66	63.49
11.549	11.549 (1.254)	111	1035304			12.36- 72.36	42.56
206 1,2-Dibromo-3-chloropropane					CAS #: 96-12-8		
12.258	12.258 (1.331)	157	1530086	100.000	96.369	80.00- 120.00	100.00
12.258	12.258 (1.331)	75	1327484			56.77- 116.77	86.76
12.258	12.258 (1.331)	155	1194364			48.17- 108.17	78.06
207 Dodecane					CAS #: 112-40-3		
12.358	12.358 (1.342)	57	3434680	123.600	117.48	80.00- 120.00	100.00
12.358	12.358 (1.342)	43	2968457			56.62- 116.62	86.43
213 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
13.039	13.039 (1.416)	180	2391766	125.900	118.97	80.00- 120.00	100.00
13.039	13.039 (1.416)	182	2285691			64.88- 124.88	95.56
215 Hexachlorobutadiene					CAS #: 87-68-3		
13.132	13.132 (1.426)	225	1786134	128.700	123.16	80.00- 120.00	100.00
13.132	13.132 (1.426)	223	1141701			33.46- 93.46	63.92
216 Naphthalene					CAS #: 91-20-3		
13.340	13.340 (1.449)	128	649192	12.7000	11.687	80.00- 120.00	100.00
13.340	13.340 (1.449)	127	85824			0.00- 43.71	13.22
222 1,2,3-Trichlorobenzene					CAS #: 87-61-6		
13.619	13.619 (1.479)	180	2357813	133.100	126.27	80.00- 120.00	100.00
13.619	13.619 (1.479)	182	2259754			66.23- 126.23	95.84
13.612	13.612 (1.478)	145	845515			5.93- 65.93	35.86

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd3.i
Lab File ID: 3081209.d
Lab Smp Id: ICAL Level #10
Analysis Type: VOA
Quant Type: ISTD
Operator: LD
Method File: /chem/msd3.i/12AUG21.b/321q0812a.m
Misc Info: 100ppbv(200ppbv)

Calibration Date: 12-AUG-2021
Calibration Time: 19:05
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	229903	137942	321864	223965	-2.58
108 1,4-Difluorobenze	822152	493291	1151013	811726	-1.27
153 Chlorobenzene-d5	775771	465463	1086079	767872	-1.02

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.86	5.53	6.19	5.86	-0.00
108 1,4-Difluorobenze	6.75	6.42	7.08	6.75	-0.00
153 Chlorobenzene-d5	9.21	8.88	9.54	9.21	-0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msd3.i/12AUG21.b/3081209.d

Date : 12-AUG-2021 19:32

Client ID:

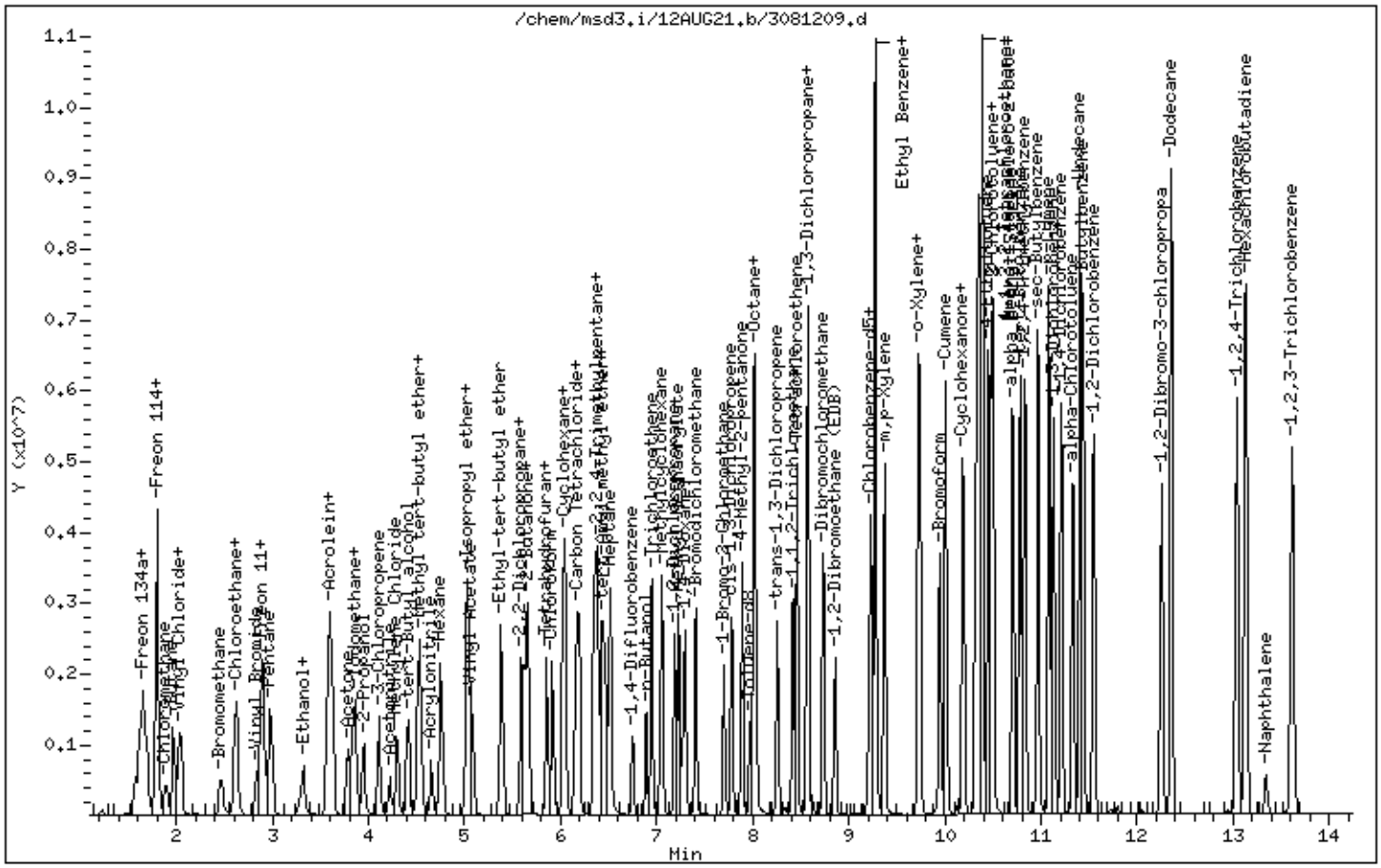
Instrument: msd3.i

Sample Info: 100ml 3018-2213

Operator: LD

Column phase: RTX-624

Column diameter: 0.25



US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msd3.i/12AUG21.b/3081220.d
Lab Smp Id: ICAL Level #10
Inj Date : 13-AUG-2021 01:31
Operator : gh Inst ID: msd3.i
Smp Info : 100ml #3018-2127
Misc Info : 100ppbv(200ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msd3.i/12AUG21.b/321q0812a.m
Meth Date : 13-Aug-2021 12:38 ugdc Quant Type: ISTD
Cal Date : 13-AUG-2021 01:31 Cal File: 3081220.d
Als bottle: 3 Calibration Sample, Level: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT20spICAL.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

					AMOUNTS			
					CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE		(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========		=======	=======	==========	=====
* 90 Bromochloromethane						CAS #: 74-97-5		
5.858	5.858 (1.000)	130	237670	25.0000			80.00- 120.00	100.00
5.858	5.858 (1.000)	128	183398				47.29- 107.29	77.16
5.858	5.858 (1.000)	49	358427				122.83- 182.83	150.81
* 108 1,4-Difluorobenzene						CAS #: 540-36-3		
6.750	6.750 (1.000)	114	859336	25.0000			80.00- 120.00	100.00
6.750	6.750 (1.000)	88	130058				0.00- 45.09	15.13
* 153 Chlorobenzene-d5						CAS #: 3114-55-4		
9.206	9.207 (1.000)	117	800223	25.0000			80.00- 120.00	100.00
9.206	9.207 (1.000)	82	428489				23.62- 83.62	53.55
3 Freon 143a						CAS #: 420-46-2		
1.520	1.520 (0.260)	65	475017	100.000	94.556	80.00- 120.00		100.00
1.520	1.520 (0.260)	69	1132785				217.09- 277.09	238.47
1.520	1.520 (0.260)	64	114943				0.00- 55.87	24.20
6 Propane						CAS #: 74-98-6		
1.618	1.618 (0.276)	43	243703	100.000	97.524	80.00- 120.00		100.00

				AMOUNTS				
					CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE		(PPBV)	(PPBV)	TARGET RANGE	RATIO
6 Propane (continued)								
1.618	1.618 (0.276)	39	175638				41.62- 101.62	72.07
1.618	1.618 (0.276)	41	135519				22.97- 82.97	55.61
13 Freon 142b						CAS #: 75-68-3		
1.842	1.842 (0.314)	65	1537657	100.000	97.240		80.00- 120.00	100.00
1.842	1.842 (0.314)	45	435393				0.00- 58.17	28.32
36 1-Pentene						CAS #: 109-67-1		
2.920	2.920 (0.498)	55	906024	100.000	99.693		80.00- 120.00	100.00
2.920	2.920 (0.498)	42	1206211				99.17- 159.17	133.13
40 Freon 123a						CAS #: 354-23-4		
3.423	3.423 (0.584)	117	1092738	100.000	97.528		80.00- 120.00	100.00
3.423	3.423 (0.584)	67	1406838				103.13- 163.13	128.74
41 Freon 123						CAS #: 306-83-2		
3.521	3.521 (0.601)	83	1536452	100.000	97.283		80.00- 120.00	100.00
3.521	3.521 (0.601)	133	354550				0.00- 51.81	23.08
3.521	3.521 (0.601)	85	1031268				37.13- 97.13	67.12
55 Cyclopentene						CAS #: 142-29-0		
4.123	4.123 (0.704)	67	1603824	100.000	99.676		80.00- 120.00	100.00
4.123	4.123 (0.704)	68	607103				7.90- 67.90	37.85
4.123	4.123 (0.704)	53	411672				0.00- 54.87	25.67
56 Methyl Acetate						CAS #: 79-20-9		
4.151	4.151 (0.709)	43	1712926	100.000	98.682		80.00- 120.00	100.00
4.151	4.151 (0.709)	74	281420				0.00- 47.15	16.43
74 Chloroprene						CAS #: 126-99-8		
5.088	5.088 (0.869)	53	1453940	100.000	100.51		80.00- 120.00	100.00
5.102	5.102 (0.871)	88	603756				12.33- 72.33	41.53
5.088	5.088 (0.869)	50	414651				0.00- 57.62	28.52
75 1-Propanol						CAS #: 71-23-8		
5.158	5.158 (0.881)	59	188640	100.000	96.464		80.00- 120.00	100.00
5.158	5.158 (0.881)	42	170779				53.89- 113.89	90.53
5.158	5.158 (0.881)	41	111189				24.09- 84.09	58.94
88 Methyl Acrylate						CAS #: 96-33-3		
5.718	5.718 (0.976)	55	1677993	100.000	99.298		80.00- 120.00	100.00
5.718	5.718 (0.976)	85	222690				0.00- 43.24	13.27
5.718	5.718 (0.976)	58	143823				0.00- 38.83	8.57
103 Isobutanol						CAS #: 78-83-1		
6.320	6.320 (1.079)	39	248464	100.000	96.635		80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
103 Isobutanol (continued)							
6.320	6.320 (1.079)	43	876382			327.69- 387.69	352.72
6.320	6.320 (1.079)	41	655942			237.56- 297.56	264.00
113 Ethyl acrylate					CAS #: 140-88-5		
7.036	7.036 (0.764)	99	133698	100.000	100.40	80.00- 120.00	100.00
7.036	7.036 (0.764)	45	214381			124.67- 184.67	160.35
7.036	7.036 (0.764)	55	2203828			1601.30-1661.30	1648.36
115 2-Pentanone					CAS #: 107-87-9		
7.129	7.129 (0.774)	43	2650800	100.000	99.700	80.00- 120.00	100.00
7.129	7.129 (0.774)	58	200154			0.00- 37.25	7.55
7.136	7.136 (0.775)	86	390140			0.00- 45.08	14.72
145 Butyl Acetate					CAS #: 123-86-4		
8.626	8.626 (1.278)	56	1170343	100.000	98.673	80.00- 120.00	100.00
8.626	8.626 (1.278)	73	408666			5.16- 65.16	34.92
8.626	8.626 (1.278)	43	2977426			214.00- 274.00	254.41
157 1,1,1,2-Tetrachloroethane					CAS #: 630-20-6		
9.300	9.300 (1.010)	131	1398561	100.000	100.25	80.00- 120.00	100.00
9.206	9.207 (1.000)	117	800223			38.22- 98.22	57.22
9.300	9.293 (1.010)	95	518237			7.54- 67.54	37.06
166 2-Heptanone					CAS #: 110-43-0		
9.801	9.801 (1.673)	58	1785535	100.000	100.78	80.00- 120.00	100.00
9.801	9.801 (1.673)	43	3057106			133.36- 193.36	171.22
172 D-Limonene					CAS #: 5989-27-5		
11.033	11.033 (1.198)	68	1547184	100.000	112.27	80.00- 120.00	100.00
11.033	11.033 (1.198)	93	1147630			42.08- 102.08	74.18
186 4-Chlorotoluene					CAS #: 106-43-4		
10.582	10.582 (1.149)	126	1220116	100.000	99.228	80.00- 120.00	100.00
10.575	10.575 (1.149)	91	3925876			305.94- 365.94	321.76
10.575	10.575 (1.149)	63	561051			15.44- 75.44	45.98
197 1,2,3-Trimethylbenzene					CAS #: 526-73-8		
11.212	11.212 (1.218)	120	1642278	100.000	101.42	80.00- 120.00	100.00
11.212	11.212 (1.218)	105	3779654			206.43- 266.43	230.15
11.212	11.212 (1.218)	77	445341			0.00- 58.29	27.12
205 Hexachloroethane					CAS #: 67-72-1		
11.735	11.728 (1.275)	201	1016389	100.000	105.66	80.00- 120.00	100.00
11.728	11.728 (1.274)	117	1405103			109.77- 169.77	138.24

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
208 1,3,5-Trichlorobenzene					CAS #: 108-70-3		
12.387	12.387 (1.345)	180	2450776	100.000	99.130	80.00- 120.00	100.00
12.387	12.387 (1.345)	182	2332044			65.79- 125.79	95.16
210 alpha-Pinene					CAS #: 80-56-8		
9.973	9.973 (1.083)	93	2744910	100.000	104.40	80.00- 120.00	100.00
9.973	9.973 (1.083)	77	823092			0.13- 60.13	29.99
214 beta-Pinene					CAS #: 127-91-3		
10.560	10.560 (1.147)	93	2029911	100.000	104.42	80.00- 120.00	100.00
10.575	10.575 (1.149)	91	3925876			145.95- 205.95	193.40

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd3.i
Lab File ID: 3081220.d
Lab Smp Id: ICAL Level #10
Analysis Type: VOA
Quant Type: ISTD
Operator: gh
Method File: /chem/msd3.i/12AUG21.b/321q0812a.m
Misc Info: 100ppbv(200ppbv)

Calibration Date: 12-AUG-2021
Calibration Time: 19:05
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	229903	137942	321864	237670	3.38
108 1,4-Difluorobenze	822152	493291	1151013	859336	4.52
153 Chlorobenzene-d5	775771	465463	1086079	800223	3.15

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.86	5.53	6.19	5.86	-0.00
108 1,4-Difluorobenze	6.75	6.42	7.08	6.75	-0.00
153 Chlorobenzene-d5	9.21	8.88	9.54	9.21	-0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msd3.i/12AUG21.b/3081220.d

Date : 13-AUG-2021 01:31

Client ID:

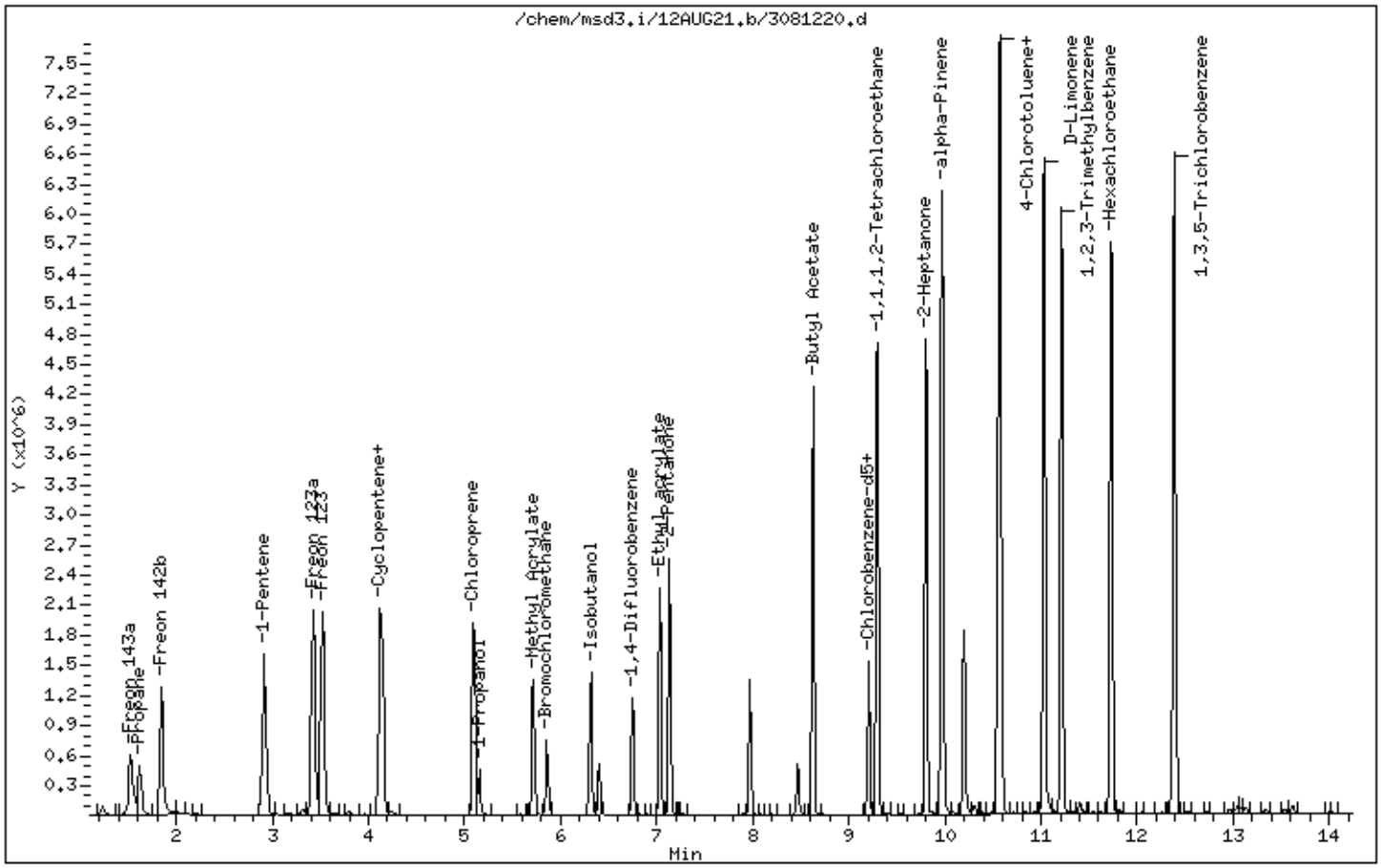
Instrument: msd3.i

Sample Info: 100ml #3018-2127

Operator: gh

Column phase: RTX-624

Column diameter: 0.25



US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msd3.i/12AUG21.b/3081210.d
Lab Smp Id: ICAL Level #11
Inj Date : 12-AUG-2021 20:01
Operator : LD Inst ID: msd3.i
Smp Info : 200ml 3018-2213
Misc Info : 200ppbv(200ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msd3.i/12AUG21.b/321q0812a.m
Meth Date : 13-Aug-2021 08:08 ugdc Quant Type: ISTD
Cal Date : 12-AUG-2021 20:01 Cal File: 3081210.d
Als bottle: 13 Calibration Sample, Level: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT20ICAL.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
4 Freon 134a					CAS #: 811-97-2		
1.591	1.577 (0.271)	83	1258865	200.000	184.78	80.00- 120.00	100.00
1.591	1.577 (0.271)	69	1021759			50.75- 110.75	81.17
1.493	1.577 (0.254)	51	103			0.00- 49.76	0.01
5 Propylene					CAS #: 115-07-1		
1.619	1.619 (0.276)	41	1278020	200.000	191.73	80.00- 120.00	100.00
1.619	1.619 (0.276)	42	854423			36.66- 96.66	66.86
1.619	1.619 (0.276)	39	943677			44.11- 104.11	73.84
7 1,1-Difluoroethane					CAS #: 75-37-6		
1.647	1.633 (0.280)	65	764800	200.000	184.05	80.00- 120.00	100.00
1.703	1.633 (0.290)	51	4014425			217.13- 277.13	524.90
1.661	1.633 (0.283)	47	586022			48.77- 108.77	76.62
8 Freon 12					CAS #: 75-71-8		
1.661	1.661 (0.283)	85	3457283	200.000	185.32	80.00- 120.00	100.00
1.661	1.661 (0.283)	87	1114479			2.35- 62.35	32.24
9 Chlorodifluoromethane					CAS #: 75-45-6		
1.703	1.689 (0.290)	67	364303	200.000	157.41	80.00- 120.00	100.00

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
9 Chlorodifluoromethane (continued)							
1.703	1.689 (0.290)	51	4426600			710.68- 770.68	1215.09
10 Freon 114					CAS #: 76-14-2		
1.800	1.800 (0.307)	135	2563738	200.000	180.79	80.00- 120.00	100.00
1.800	1.800 (0.307)	137	822292			2.06- 62.06	32.07
12 Isobutane					CAS #: 75-28-5		
1.814	1.800 (0.309)	43	2856429	200.000	189.27	80.00- 120.00	100.00
1.814	1.800 (0.309)	42	922755			2.70- 62.70	32.30
1.814	1.800 (0.309)	58	94251			0.00- 33.44	3.30
15 Chloromethane					CAS #: 74-87-3		
1.898	1.884 (0.323)	50	1422149	200.000	177.05	80.00- 120.00	100.00
1.898	1.884 (0.323)	52	447696			3.38- 63.38	31.48
18 Butane					CAS #: 106-97-8		
1.982	1.968 (0.338)	58	308735	200.000	163.03	80.00- 120.00	100.00
1.982	1.968 (0.338)	43	2437629			760.51- 820.51	789.55
19 Vinyl Chloride					CAS #: 75-01-4		
2.010	2.010 (0.342)	62	1442009	200.000	164.53	80.00- 120.00	100.00
2.010	2.010 (0.342)	64	431964			0.32- 60.32	29.96
20 1,3-Butadiene					CAS #: 106-99-0		
2.052	2.038 (0.349)	54	1264451	200.000	150.30	80.00- 120.00	100.00
2.052	2.038 (0.349)	39	1307358			72.94- 132.94	103.39
24 Bromomethane					CAS #: 74-83-9		
2.472	2.458 (0.421)	94	1122712	200.000	171.62	80.00- 120.00	100.00
2.472	2.458 (0.421)	96	1051900			63.18- 123.18	93.69
30 Chloroethane					CAS #: 75-00-3		
2.612	2.598 (0.445)	64	716168	200.000	183.90	80.00- 120.00	100.00
2.612	2.598 (0.445)	66	216733			1.10- 61.10	30.26
2.612	2.598 (0.445)	49	240386			5.46- 65.46	33.57
31 Isopentane					CAS #: 78-78-4		
2.626	2.626 (0.447)	43	1923172	200.000	189.50	80.00- 120.00	100.00
2.626	2.626 (0.447)	57	1274220			36.12- 96.12	66.26
32 Vinyl Bromide					CAS #: 593-60-2		
2.850	2.836 (0.485)	106	1301849	200.000	183.19	80.00- 120.00	100.00
2.850	2.836 (0.485)	108	1220502			63.01- 123.01	93.75
33 Freon 11					CAS #: 75-69-4		
2.892	2.892 (0.492)	101	3780702	200.000	182.37	80.00- 120.00	100.00

					AMOUNTS			
					CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE		(PPBV)	(PPBV)	TARGET RANGE	RATIO
33 Freon 11 (continued)								
2.892	2.892 (0.492)	103	2481926				36.55- 96.55	65.65
34 Dichlorofluoromethane						CAS #: 75-43-4		
2.920	2.906 (0.497)	67	2933263	200.000		185.73	80.00- 120.00	100.00
2.920	2.906 (0.497)	69	927636				1.82- 61.82	31.62
35 Pentane						CAS #: 109-66-0		
2.976	2.976 (0.507)	43	3049598	200.000		182.12	80.00- 120.00	100.00
2.976	2.976 (0.507)	57	469789				0.00- 45.52	15.40
2.990	2.976 (0.509)	72	250872				0.00- 38.25	8.23
39 Ethanol						CAS #: 64-17-5		
3.284	3.284 (0.559)	46	278232	200.000		170.42	80.00- 120.00	100.00
3.326	3.284 (0.566)	45	1548446				213.29- 273.29	556.53
38 Ethyl Ether						CAS #: 60-29-7		
3.326	3.326 (0.566)	74	640979	200.000		184.78	80.00- 120.00	100.00
3.326	3.326 (0.566)	59	1108406				143.51- 203.51	172.92
3.326	3.326 (0.566)	45	1553041				143.53- 203.53	242.29
42 Acrolein						CAS #: 107-02-8		
3.591	3.591 (0.612)	55	486800	200.000		187.92	80.00- 120.00	100.00
3.591	3.591 (0.612)	56	673776				104.02- 164.02	138.41
43 Freon 113						CAS #: 76-13-1		
3.591	3.591 (0.612)	151	2489181	200.000		181.39	80.00- 120.00	100.00
3.591	3.591 (0.612)	153	1586938				34.03- 94.03	63.75
3.591	3.591 (0.612)	101	2987563				89.72- 149.72	120.02
44 1,1-Dichloroethene						CAS #: 75-35-4		
3.619	3.619 (0.616)	96	1381559	200.000		179.50	80.00- 120.00	100.00
3.619	3.619 (0.616)	98	864005				32.85- 92.85	62.54
3.619	3.619 (0.616)	61	2665531				165.91- 225.91	192.94
47 Acetone						CAS #: 67-64-1		
3.787	3.787 (0.645)	58	791092	200.000		182.10	80.00- 120.00	100.00
3.787	3.787 (0.645)	43	2823991				325.09- 385.09	356.97
49 Iodomethane						CAS #: 74-88-4		
3.843	3.829 (0.654)	142	3317353	200.000		196.28	80.00- 120.00	100.00
3.843	3.829 (0.654)	127	1533765				16.98- 76.98	46.23
48 Carbon Disulfide						CAS #: 75-15-0		
3.871	3.857 (0.659)	76	3699071	200.000		188.38	80.00- 120.00	100.00

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
52 2-Propanol					CAS #: 67-63-0		
3.955	3.941 (0.674)	45	3114958	200.000	185.80	80.00- 120.00	100.00
3.955	3.941 (0.674)	43	612702			0.00- 49.76	19.67
54 3-Chloropropene					CAS #: 107-05-1		
4.123	4.109 (0.702)	76	628560	200.000	185.52	80.00- 120.00	100.00
4.109	4.109 (0.700)	41	2290886			344.92- 404.92	364.47
57 Acetonitrile					CAS #: 75-05-8		
4.221	4.221 (0.719)	41	1430178	200.000	192.32	80.00- 120.00	100.00
4.221	4.221 (0.719)	40	732206			24.08- 84.08	51.20
4.221	4.221 (0.719)	38	168138			0.00- 42.84	11.76
59 Methylene Chloride					CAS #: 75-09-2		
4.305	4.291 (0.733)	49	2027004	200.000	185.52	80.00- 120.00	100.00
4.305	4.291 (0.733)	84	1176849			27.95- 87.95	58.06
4.305	4.291 (0.733)	51	617168			0.78- 60.78	30.45
62 tert-Butyl alcohol					CAS #: 75-65-0		
4.417	4.417 (0.752)	59	3749471	200.000	193.70	80.00- 120.00	100.00
4.417	4.417 (0.752)	41	811334			0.00- 52.58	21.64
4.417	4.417 (0.752)	57	407136			0.00- 40.94	10.86
63 Methyl tert-butyl ether					CAS #: 1634-04-4		
4.515	4.515 (0.769)	73	4009541	200.000	190.03	80.00- 120.00	100.00
4.515	4.515 (0.769)	57	1141722			0.00- 58.27	28.48
4.515	4.515 (0.769)	41	1137067			0.00- 58.78	28.36
64 trans-1,2-Dichloroethene					CAS #: 156-60-5		
4.543	4.543 (0.774)	98	915945	200.000	187.41	80.00- 120.00	100.00
4.543	4.543 (0.774)	61	2449134			236.85- 296.85	267.39
4.543	4.543 (0.774)	96	1438480			126.72- 186.72	157.05
66 Acrylonitrile					CAS #: 107-13-1		
4.655	4.655 (0.793)	52	1090497	200.000	168.76	80.00- 120.00	100.00
4.655	4.655 (0.793)	53	1262198			88.92- 148.92	115.75
67 Hexane					CAS #: 110-54-3		
4.753	4.753 (0.809)	57	2690897	200.000	188.99	80.00- 120.00	100.00
4.753	4.753 (0.809)	43	1778202			36.74- 96.74	66.08
4.753	4.753 (0.809)	86	351923			0.00- 43.22	13.08
72 Isopropyl ether					CAS #: 108-20-3		
5.019	5.019 (0.855)	45	5971406	200.000	191.65	80.00- 120.00	100.00
5.033	5.033 (0.857)	87	1294261			0.00- 51.44	21.67
5.019	5.019 (0.855)	59	641368			0.00- 40.81	10.74

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
71 1,1-Dichloroethane					CAS #: 75-34-3		
5.047	5.047 (0.859)	63	2752225	200.000	182.45	80.00- 120.00	100.00
5.047	5.047 (0.859)	65	835368			0.56- 60.56	30.35
73 Vinyl Acetate					CAS #: 108-05-4		
5.089	5.089 (0.867)	86	362452	200.000	193.94	80.00- 120.00	100.00
5.089	5.075 (0.867)	43	5421839			1473.01-1533.01	1495.88
79 Ethyl-tert-butyl ether					CAS #: 637-92-3		
5.382	5.382 (0.917)	59	5527462	200.000	194.82	80.00- 120.00	100.00
5.382	5.382 (0.917)	87	1919711			4.28- 64.28	34.73
5.382	5.382 (0.917)	41	1081077			0.00- 49.94	19.56
84 2,2-Dichloropropane					CAS #: 594-20-7		
5.592	5.592 (0.952)	77	2711824	200.000	190.23	80.00- 120.00	100.00
5.592	5.592 (0.952)	79	874999			2.43- 62.43	32.27
5.592	5.592 (0.952)	97	621815			0.00- 53.03	22.93
85 cis-1,2-Dichloroethene					CAS #: 156-59-2		
5.634	5.620 (0.959)	98	968426	200.000	186.86	80.00- 120.00	100.00
5.634	5.620 (0.959)	96	1461902			121.91- 181.91	150.96
5.620	5.620 (0.957)	61	3338584			313.72- 373.72	344.74
86 2-Butanone					CAS #: 78-93-3		
5.648	5.648 (0.962)	72	734462	200.000	193.61	80.00- 120.00	100.00
5.662	5.662 (0.964)	43	8114894			1111.25-1171.25	1104.88
5.648	5.648 (0.962)	57	299393			11.22- 71.22	40.76
87 Ethyl Acetate					CAS #: 141-78-6		
5.662	5.662 (0.964)	45	654987	200.000	184.29	80.00- 120.00	100.00
5.620	5.620 (0.957)	61	3338584			469.17- 529.17	509.72
5.662	5.662 (0.964)	70	396586			29.38- 89.38	60.55
89 Tetrahydrofuran					CAS #: 109-99-9		
5.858	5.858 (0.998)	42	2079810	200.000	180.22	80.00- 120.00	100.00
5.858	5.858 (0.998)	71	636114			0.09- 60.09	30.59
5.858	5.858 (0.998)	72	673160			2.13- 62.13	32.37
* 90 Bromochloromethane					CAS #: 74-97-5		
5.872	5.858 (1.000)	130	235161	25.0000		80.00- 120.00	100.00
5.858	5.858 (1.000)	128	182937			47.29- 107.29	77.79
5.858	5.858 (1.000)	49	348520			122.83- 182.83	148.20
92 Chloroform					CAS #: 67-66-3		
5.914	5.914 (1.007)	83	3080219	200.000	185.19	80.00- 120.00	100.00
5.914	5.914 (1.007)	85	1998169			34.29- 94.29	64.87

				AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
RT	EXP RT (REL RT)	MASS	RESPONSE				
94 Cyclohexane					CAS #: 110-82-7		
6.026	6.026 (1.026)	84	1906713	200.000	187.26	80.00- 120.00	100.00
6.026	6.026 (1.026)	56	2777620			116.85- 176.85	145.68
6.026	6.026 (1.026)	41	1633285			57.77- 117.77	85.66
96 1,1,1-Trichloroethane					CAS #: 71-55-6		
6.054	6.054 (1.031)	97	3323590	200.000	184.08	80.00- 120.00	100.00
6.054	6.054 (1.031)	99	2127262			34.55- 94.55	64.00
97 Carbon Tetrachloride					CAS #: 56-23-5		
6.166	6.166 (1.050)	119	3531035	200.000	199.91	80.00- 120.00	100.00
6.166	6.166 (1.050)	117	3668202			74.20- 134.20	103.88
99 1,1-Dichloropropene					CAS #: 563-58-6		
6.194	6.194 (0.918)	110	837153	200.000	188.87	80.00- 120.00	100.00
6.194	6.194 (0.918)	75	2179815			229.39- 289.39	260.38
101 2,2,4-Trimethylpentane					CAS #: 540-84-1		
6.348	6.348 (1.081)	57	8551652	200.000	187.95	80.00- 120.00	100.00
6.348	6.348 (1.081)	56	2697205			1.14- 61.14	31.54
6.348	6.348 (1.081)	41	2504976			0.00- 59.12	29.29
102 Benzene					CAS #: 71-43-2		
6.390	6.376 (0.947)	78	4049556	200.000	181.12	80.00- 120.00	100.00
6.390	6.376 (0.947)	77	953056			0.00- 53.48	23.53
$ 104 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
6.404	6.404 (1.091)	65	335254	25.0000	25.592	80.00- 120.00	100.00
6.404	6.404 (1.091)	67	180208			20.51- 80.51	53.75
105 tert-Amyl methyl ether					CAS #: 994-05-8		
6.432	6.446 (0.953)	87	1120095	200.000	192.81	80.00- 120.00	100.00
6.432	6.446 (0.953)	73	4381638			363.80- 423.80	391.18
6.432	6.432 (0.953)	55	1382616			97.13- 157.13	123.44
106 1,2-Dichloroethane					CAS #: 107-06-2		
6.474	6.474 (0.959)	62	2401800	200.000	180.23	80.00- 120.00	100.00
6.474	6.474 (0.959)	64	739428			1.41- 61.41	30.79
107 Heptane					CAS #: 142-82-5		
6.516	6.516 (0.965)	71	1380726	200.000	158.67	80.00- 120.00	100.00
6.516	6.516 (0.965)	43	2798871			146.45- 206.45	202.71
6.516	6.516 (0.965)	57	1471836			90.20- 150.20	106.60
* 108 1,4-Difluorobenzene					CAS #: 540-36-3		
6.750	6.750 (1.000)	114	862040	25.0000		80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
* 108 1,4-Difluorobenzene (continued)							
6.750	6.750 (1.000)	88	130625			0.00- 45.09	15.15
110 n-Butanol					CAS #: 71-36-3		
6.893	6.893 (1.021)	56	1495843	200.000	193.92	80.00- 120.00	100.00
6.886	6.886 (1.020)	41	1116545			44.46- 104.46	74.64
6.886	6.886 (1.020)	43	872485			28.14- 88.14	58.33
111 Trichloroethene					CAS #: 79-01-6		
6.950	6.943 (1.030)	95	2032138	200.000	185.93	80.00- 120.00	100.00
6.950	6.950 (1.030)	130	2193289			79.68- 139.68	107.93
6.950	6.943 (1.030)	97	1306813			34.74- 94.74	64.31
127 Methylcyclohexane					CAS #: 108-87-2		
7.051	7.051 (1.045)	83	2602789	200.000	188.67	80.00- 120.00	100.00
7.051	7.051 (1.045)	98	1215169			17.10- 77.10	46.69
7.051	7.051 (1.045)	55	2625486			71.11- 131.11	100.87
114 1,2-Dichloropropane					CAS #: 78-87-5		
7.187	7.187 (1.065)	63	1824591	200.000	182.31	80.00- 120.00	100.00
7.187	7.187 (1.065)	62	1285718			40.55- 100.55	70.47
7.187	7.187 (1.065)	41	1338150			36.07- 96.07	73.34
116 Methyl Methacrylate					CAS #: 80-62-6		
7.230	7.230 (0.785)	69	1676937	200.000	190.60	80.00- 120.00	100.00
7.230	7.230 (0.785)	41	2963060			160.67- 220.67	176.69
7.230	7.230 (0.785)	100	696753			11.33- 71.33	41.55
117 1,4-Dioxane					CAS #: 123-91-1		
7.273	7.273 (1.077)	88	1174490	200.000	187.43	80.00- 120.00	100.00
7.273	7.273 (1.077)	58	1005037			56.19- 116.19	85.57
7.273	7.273 (1.077)	57	335672			0.00- 59.32	28.58
118 Dibromomethane					CAS #: 74-95-3		
7.301	7.294 (0.793)	174	1909072	200.000	183.72	80.00- 120.00	100.00
7.294	7.294 (0.792)	93	1828844			66.88- 126.88	95.80
7.294	7.294 (0.792)	95	1518582			49.90- 109.90	79.55
122 Bromodichloromethane					CAS #: 75-27-4		
7.409	7.409 (1.098)	83	3398603	200.000	185.93	80.00- 120.00	100.00
7.409	7.409 (1.098)	85	2183823			33.85- 93.85	64.26
151 1-Bromo-2-Chloroethane					CAS #: 107-04-0		
7.702	7.702 (1.141)	63	3422262	200.000	190.90	80.00- 120.00	100.00
7.702	7.702 (1.141)	65	1044695			0.05- 60.05	30.53
7.702	7.702 (1.141)	144	378935			0.00- 40.91	11.07

				AMOUNTS				
					CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE		(PPBV)	(PPBV)	TARGET RANGE	RATIO
126 cis-1,3-Dichloropropene						CAS #: 10061-01-5		
7.781	7.781 (1.153)	75	2632702	200.000	189.14	80.00- 120.00	100.00	
7.781	7.781 (1.153)	77	837802			1.50- 61.50	31.82	
7.781	7.781 (1.153)	39	1893198			43.12- 103.12	71.91	
131 4-Methyl-2-pentanone						CAS #: 108-10-1		
7.889	7.889 (1.169)	58	1779804	200.000	183.45	80.00- 120.00	100.00	
7.889	7.889 (1.169)	43	4876723			247.84- 307.84	274.00	
7.889	7.889 (1.169)	85	690579			8.73- 68.73	38.80	
$ 134 Toluene-d8						CAS #: 2037-26-5		
7.975	7.967 (1.181)	98	873353	25.0000	25.046	80.00- 120.00	100.00	
7.967	7.967 (1.180)	70	92351			0.00- 42.00	10.57	
7.967	7.967 (1.180)	100	597874			37.14- 97.14	68.46	
136 Octane						CAS #: 111-65-9		
8.010	8.010 (1.187)	57	1818167	200.000	181.95	80.00- 120.00	100.00	
8.010	8.010 (1.187)	85	1787756			67.77- 127.77	98.33	
8.010	8.010 (1.187)	43	4575596			225.27- 285.27	251.66	
137 Toluene						CAS #: 108-88-3		
8.025	8.025 (1.189)	91	5470897	200.000	184.14	80.00- 120.00	100.00	
8.025	8.025 (1.189)	92	3219409			28.13- 88.13	58.85	
139 trans-1,3-Dichloropropene						CAS #: 10061-02-6		
8.254	8.254 (0.897)	75	2580269	200.000	185.36	80.00- 120.00	100.00	
8.254	8.254 (0.897)	77	816708			1.93- 61.93	31.65	
8.254	8.254 (0.897)	39	1742153			38.37- 98.37	67.52	
141 1,1,2-Trichloroethane						CAS #: 79-00-5		
8.419	8.419 (0.914)	97	1914692	200.000	184.31	80.00- 120.00	100.00	
8.419	8.419 (0.914)	99	1187414			31.66- 91.66	62.02	
8.419	8.419 (0.914)	83	1635165			55.24- 115.24	85.40	
142 Tetrachloroethene						CAS #: 127-18-4		
8.462	8.462 (0.919)	166	2789860	200.000	184.15	80.00- 120.00	100.00	
8.462	8.462 (0.919)	129	2197530			48.51- 108.51	78.77	
8.462	8.462 (0.919)	131	2123732			45.64- 105.64	76.12	
144 1,3-Dichloropropane						CAS #: 142-28-9		
8.569	8.569 (1.270)	76	2647914	200.000	180.39	80.00- 120.00	100.00	
8.569	8.569 (1.270)	41	3249538			96.83- 156.83	122.72	
8.569	8.569 (1.270)	78	862824			2.46- 62.46	32.59	
143 2-Hexanone						CAS #: 591-78-6		
8.576	8.576 (0.932)	58	2770615	200.000	189.25	80.00- 120.00	100.00	

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
143 2-Hexanone (continued)							
8.576	8.576 (0.932)	43	5393622			169.24- 229.24	194.67
8.576	8.576 (0.932)	100	526577			0.00- 48.72	19.01
146 Dibromochloromethane					CAS #: 124-48-1		
8.734	8.734 (0.949)	129	3962290	200.000	191.17	80.00- 120.00	100.00
8.734	8.734 (0.949)	127	3087998			47.05- 107.05	77.93
148 1,2-Dibromoethane (EDB)					CAS #: 106-93-4		
8.856	8.856 (0.962)	107	3094947	200.000	184.41	80.00- 120.00	100.00
8.856	8.856 (0.962)	109	2919071			64.74- 124.74	94.32
* 153 Chlorobenzene-d5					CAS #: 3114-55-4		
9.207	9.207 (1.000)	117	822744	25.0000		80.00- 120.00	100.00
9.207	9.207 (1.000)	82	438417			23.62- 83.62	53.29
154 Chlorobenzene					CAS #: 108-90-7		
9.235	9.235 (1.003)	112	4691421	200.000	181.78	80.00- 120.00	100.00
9.235	9.235 (1.003)	114	1523977			2.19- 62.19	32.48
9.235	9.228 (1.003)	77	2513797			23.66- 83.66	53.58
155 Ethyl Benzene					CAS #: 100-41-4		
9.278	9.278 (1.008)	106	2375322	200.000	185.85	80.00- 120.00	100.00
9.278	9.278 (1.008)	91	7281545			282.43- 342.43	306.55
156 Nonane					CAS #: 111-84-2		
9.278	9.278 (1.008)	43	4636786	200.000	180.04	80.00- 120.00	100.00
9.278	9.278 (1.008)	57	4006955			55.73- 115.73	86.42
9.278	9.278 (1.008)	85	1358577			0.00- 58.99	29.30
158 m,p-Xylene					CAS #: 108-38-3		
9.371	9.371 (1.018)	106	2940024	200.000	187.30	80.00- 120.00	100.00
9.371	9.371 (1.018)	91	5846272			169.66- 229.66	198.85
164 o-Xylene					CAS #: 95-47-6		
9.722	9.722 (1.056)	106	2828293	200.000	190.02	80.00- 120.00	100.00
9.722	9.722 (1.056)	91	5904356			180.55- 240.55	208.76
165 Styrene					CAS #: 100-42-5		
9.744	9.737 (1.058)	104	4893518	200.000	189.86	80.00- 120.00	100.00
9.737	9.737 (1.058)	78	2383424			18.65- 78.65	48.71
167 Bromoform					CAS #: 75-25-2		
9.944	9.944 (1.080)	173	3789024	200.000	192.72	80.00- 120.00	100.00
9.944	9.944 (1.080)	171	1965411			21.64- 81.64	51.87

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
168 Cumene					CAS #: 98-82-8		
10.009	10.009 (1.087)	105	8704547	200.000	184.12	80.00- 120.00	100.00
10.009	10.009 (1.087)	120	2433340			0.00- 57.04	27.95
10.009	10.009 (1.087)	51	1056901			0.00- 41.95	12.14
169 Cyclohexanone					CAS #: 108-94-1		
10.188	10.188 (1.107)	55	3601371	200.000	167.69	80.00- 120.00	100.00
10.188	10.188 (1.107)	98	1401916			8.59- 68.59	38.93
10.188	10.188 (1.107)	42	2731799			46.18- 106.18	75.85
$ 170 4-Bromofluorobenzene					CAS #: 460-00-4		
10.202	10.202 (1.108)	174	539399	25.0000	24.942	80.00- 120.00	100.00
10.195	10.195 (1.107)	95	661880			92.25- 152.25	122.71
10.202	10.202 (1.108)	176	505222			63.07- 123.07	93.66
175 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
10.317	10.317 (1.121)	83	4196406	200.000	182.08	80.00- 120.00	100.00
10.317	10.317 (1.121)	85	2716409			34.44- 94.44	64.73
177 Bromobenzene					CAS #: 108-86-1		
10.346	10.338 (1.124)	156	2837869	200.000	188.79	80.00- 120.00	100.00
10.346	10.346 (1.124)	158	2753027			67.20- 127.20	97.01
10.338	10.338 (1.123)	77	4522079			131.36- 191.36	159.35
178 Propylbenzene					CAS #: 103-65-1		
10.360	10.360 (1.125)	120	2504598	200.000	184.55	80.00- 120.00	100.00
10.360	10.360 (1.125)	91	10117949	200.000	180.52	385.23- 445.23	403.97
10.360	10.360 (1.125)	105	397635			0.00- 46.02	15.88
181 trans-1,4-Dichloro-2-butene					CAS #: 110-57-6		
10.374	10.374 (1.127)	53	1043556	200.000	176.79	80.00- 120.00	100.00
10.374	10.374 (1.127)	89	741767			40.38- 100.38	71.08
10.381	10.381 (1.128)	75	4283906			394.61- 454.61	410.51
179 1,2,3-Trichloropropane					CAS #: 96-18-4		
10.389	10.389 (1.128)	110	1346166	200.000	181.61	80.00- 120.00	100.00
10.381	10.381 (1.128)	75	4248666			301.57- 361.57	315.61
10.381	10.381 (1.128)	61	1129500			54.32- 114.32	83.90
182 Decane					CAS #: 124-18-5		
10.396	10.396 (1.129)	57	5021512	200.000	162.68	80.00- 120.00	100.00
10.396	10.396 (1.129)	71	1695253			2.98- 62.98	33.76
10.396	10.396 (1.129)	142	257135			0.00- 35.12	5.12
183 4-Ethyltoluene					CAS #: 622-96-8		
10.453	10.453 (1.135)	120	2686117	200.000	183.32	80.00- 120.00	100.00

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE		RATIO
==	====== ========	====	========	=======	=======	==========		=====
183 4-Ethyltoluene (continued)								
10.453	10.453 (1.135)	105	8906643			295.29- 355.29		331.58
184 2-Chlorotoluene					CAS #: 95-49-8			
10.482	10.482 (1.138)	126	2251984	200.000	184.85	80.00- 120.00		100.00
10.482	10.482 (1.138)	91	7959888			325.01- 385.01		353.46
10.482	10.482 (1.138)	65	1151398			19.90- 79.90		51.13
185 1,3,5-Trimethylbenzene					CAS #: 108-67-8			
10.503	10.503 (1.141)	120	3891472	200.000	190.39	80.00- 120.00		100.00
10.503	10.503 (1.141)	105	7564464			176.14- 236.14		194.39
188 alpha Methyl Styrene					CAS #: 98-83-9			
10.711	10.704 (1.163)	118	4027385	200.000	197.77	80.00- 120.00		100.00
10.704	10.704 (1.163)	103	2285456			26.69- 86.69		56.75
189 tert-Butylbenzene					CAS #: 98-06-6			
10.783	10.783 (1.171)	119	7121892	200.000	186.04	80.00- 120.00		100.00
10.783	10.783 (1.171)	134	1808239			0.00- 54.52		25.39
10.783	10.783 (1.171)	91	4730063			34.68- 94.68		66.42
190 1,2,4-Trimethylbenzene					CAS #: 95-63-6			
10.833	10.833 (1.177)	105	7397180	200.000	186.47	80.00- 120.00		100.00
10.833	10.833 (1.177)	120	3562581			17.12- 77.12		48.16
192 sec-Butylbenzene					CAS #: 135-98-8			
10.969	10.969 (1.191)	134	2301498	200.000	182.03	80.00- 120.00		100.00
10.969	10.969 (1.191)	105	10577876			438.96- 498.96		459.61
10.969	10.969 (1.191)	91	1718098			44.37- 104.37		74.65
194 p-Cymene					CAS #: 99-87-6			
11.083	11.083 (1.204)	119	9522614	200.000	182.88	80.00- 120.00		100.00
11.083	11.083 (1.204)	134	2636382			0.00- 56.91		27.69
11.083	11.083 (1.204)	91	2331262			0.00- 53.86		24.48
195 1,3-Dichlorobenzene					CAS #: 541-73-1			
11.134	11.134 (1.209)	146	5300353	200.000	187.37	80.00- 120.00		100.00
11.134	11.134 (1.209)	148	3384308			33.78- 93.78		63.85
11.134	11.134 (1.209)	111	2176265			11.40- 71.40		41.06
196 1,4-Dichlorobenzene					CAS #: 106-46-7			
11.212	11.212 (1.218)	146	5364693	200.000	186.17	80.00- 120.00		100.00
11.212	11.212 (1.218)	148	3414806			33.73- 93.73		63.65
11.212	11.212 (1.218)	111	2139448			9.40- 69.40		39.88
199 alpha-Chlorotoluene					CAS #: 100-44-7			
11.334	11.334 (1.231)	91	7519569	200.000	191.64	80.00- 120.00		100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
199 alpha-Chlorotoluene (continued)							
11.334	11.334 (1.231)	126	1724459			0.00- 52.58	22.93
201 Undecane					CAS #: 1120-21-4		
11.406	11.406 (1.239)	57	6155724	200.000	177.49	80.00- 120.00	100.00
11.406	11.406 (1.239)	43	5577973			62.03- 122.03	90.61
202 Butylbenzene					CAS #: 104-51-8		
11.434	11.434 (1.242)	134	2561804	200.000	183.90	80.00- 120.00	100.00
11.434	11.434 (1.242)	91	8825583			322.91- 382.91	344.51
11.434	11.434 (1.242)	92	4723061			155.43- 215.43	184.36
204 1,2-Dichlorobenzene					CAS #: 95-50-1		
11.549	11.549 (1.254)	146	5123608	200.000	186.98	80.00- 120.00	100.00
11.549	11.549 (1.254)	148	3273582			33.66- 93.66	63.89
11.549	11.549 (1.254)	111	2184426			12.36- 72.36	42.63
206 1,2-Dibromo-3-chloropropane					CAS #: 96-12-8		
12.258	12.258 (1.331)	157	3203657	200.000	190.17	80.00- 120.00	100.00
12.258	12.258 (1.331)	75	2784723			56.77- 116.77	86.92
12.258	12.258 (1.331)	155	2496876			48.17- 108.17	77.94
207 Dodecane					CAS #: 112-40-3		
12.358	12.358 (1.342)	57	7030343	247.200	227.04	80.00- 120.00	100.00(A)
12.358	12.358 (1.342)	43	6017644			56.62- 116.62	85.60
213 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
13.039	13.039 (1.416)	180	5012891	251.800	235.26	80.00- 120.00	100.00(A)
13.039	13.039 (1.416)	182	4795690			64.88- 124.88	95.67
215 Hexachlorobutadiene					CAS #: 87-68-3		
13.132	13.132 (1.426)	225	3725992	257.400	242.15	80.00- 120.00	100.00(A)
13.132	13.132 (1.426)	223	2373028			33.46- 93.46	63.69
216 Naphthalene					CAS #: 91-20-3		
13.340	13.340 (1.449)	128	1367814	25.4000	23.298	80.00- 120.00	100.00
13.340	13.340 (1.449)	127	177976			0.00- 43.71	13.01
222 1,2,3-Trichlorobenzene					CAS #: 87-61-6		
13.619	13.619 (1.479)	180	4929026	266.200	249.01	80.00- 120.00	100.00(A)
13.619	13.619 (1.479)	182	4691093			66.23- 126.23	95.17
13.619	13.612 (1.479)	145	1789608			5.93- 65.93	36.31

QC Flag Legend

A - Target compound detected but, quantitated amount
exceeded maximum amount.

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd3.i
Lab File ID: 3081210.d
Lab Smp Id: ICAL Level #11
Analysis Type: VOA
Quant Type: ISTD
Operator: LD
Method File: /chem/msd3.i/12AUG21.b/321q0812a.m
Misc Info: 200ppbv(200ppbv)

Calibration Date: 12-AUG-2021
Calibration Time: 19:05
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	229903	137942	321864	235161	2.29
108 1,4-Difluorobenze	822152	493291	1151013	862040	4.85
153 Chlorobenzene-d5	775771	465463	1086079	822744	6.06

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.86	5.53	6.19	5.87	0.24
108 1,4-Difluorobenze	6.75	6.42	7.08	6.75	-0.00
153 Chlorobenzene-d5	9.21	8.88	9.54	9.21	-0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msd3.i/12AUG21.b/3081210.d

Page 1

Date : 12-AUG-2021 20:01

Client ID:

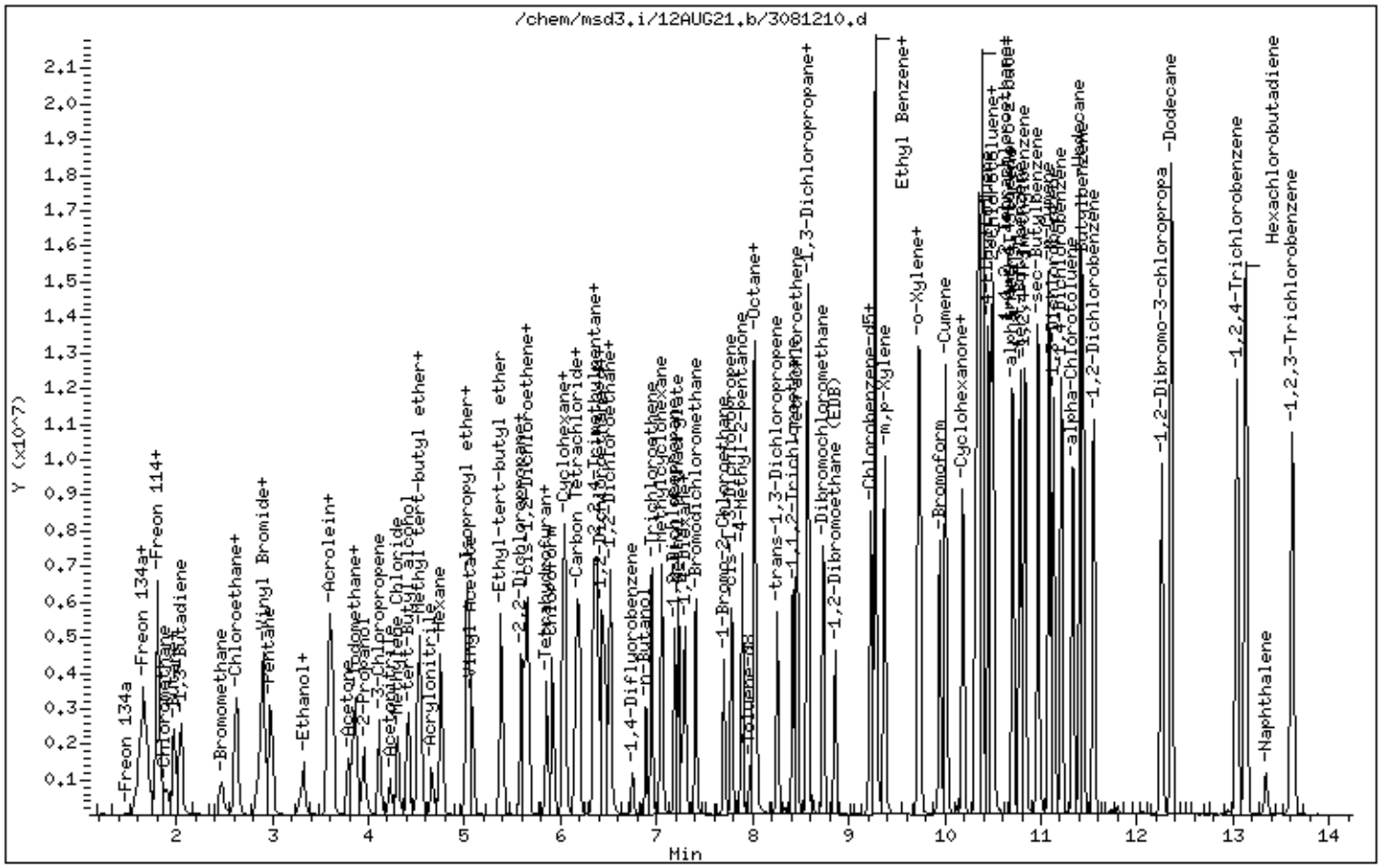
Instrument: msd3.i

Sample Info: 200ml 3018-2213

Operator: LD

Column phase: RTX-624

Column diameter: 0.25



US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msd3.i/12AUG21.b/3081221.d
Lab Smp Id: ICAL Level #11
Inj Date : 13-AUG-2021 02:00
Operator : gh Inst ID: msd3.i
Smp Info : 200ml #3018-2127
Misc Info : 200ppbv(200ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msd3.i/12AUG21.b/321q0812a.m
Meth Date : 13-Aug-2021 12:38 ugdc Quant Type: ISTD
Cal Date : 13-AUG-2021 02:00 Cal File: 3081221.d
Als bottle: 3 Calibration Sample, Level: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT20spICAL.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 90 Bromochloromethane					CAS #: 74-97-5		
5.858	5.858 (1.000)	130	243356	25.0000		80.00- 120.00	100.00
5.858	5.858 (1.000)	128	188140			47.29- 107.29	77.31
5.858	5.858 (1.000)	49	361888			122.83- 182.83	148.71
* 108 1,4-Difluorobenzene					CAS #: 540-36-3		
6.750	6.750 (1.000)	114	887948	25.0000		80.00- 120.00	100.00
6.750	6.750 (1.000)	88	136194			0.00- 45.09	15.34
* 153 Chlorobenzene-d5					CAS #: 3114-55-4		
9.207	9.207 (1.000)	117	827873	25.0000		80.00- 120.00	100.00
9.207	9.207 (1.000)	82	439568			23.62- 83.62	53.10
3 Freon 143a					CAS #: 420-46-2		
1.535	1.520 (0.262)	65	868956	200.000	173.42	80.00- 120.00	100.00
1.535	1.520 (0.262)	69	2057906			217.09- 277.09	236.83
1.535	1.520 (0.262)	64	206256			0.00- 55.87	23.74
6 Propane					CAS #: 74-98-6		
1.619	1.618 (0.276)	43	484253	200.000	190.97	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
6 Propane (continued)							
1.619	1.618 (0.276)	39	356294			41.62- 101.62	73.58
1.619	1.618 (0.276)	41	272529			22.97- 82.97	56.28
13 Freon 142b					CAS #: 75-68-3		
1.842	1.842 (0.315)	65	3039640	200.000	189.67	80.00- 120.00	100.00
1.842	1.842 (0.315)	45	866003			0.00- 58.17	28.49
36 1-Pentene					CAS #: 109-67-1		
2.920	2.920 (0.498)	55	1837569	200.000	197.89	80.00- 120.00	100.00
2.920	2.920 (0.498)	42	2452770			99.17- 159.17	133.48
40 Freon 123a					CAS #: 354-23-4		
3.424	3.423 (0.584)	117	2178720	200.000	191.52	80.00- 120.00	100.00
3.424	3.423 (0.584)	67	2814268			103.13- 163.13	129.17
41 Freon 123					CAS #: 306-83-2		
3.521	3.521 (0.601)	83	3107012	200.000	193.40	80.00- 120.00	100.00
3.521	3.521 (0.601)	133	713752			0.00- 51.81	22.97
3.521	3.521 (0.601)	85	2046463			37.13- 97.13	65.87
55 Cyclopentene					CAS #: 142-29-0		
4.123	4.123 (0.704)	67	3233012	200.000	196.85	80.00- 120.00	100.00
4.123	4.123 (0.704)	68	1225601			7.90- 67.90	37.91
4.123	4.123 (0.704)	53	825405			0.00- 54.87	25.53
56 Methyl Acetate					CAS #: 79-20-9		
4.151	4.151 (0.709)	43	3383123	200.000	191.89	80.00- 120.00	100.00
4.151	4.151 (0.709)	74	559654			0.00- 47.15	16.54
74 Chloroprene					CAS #: 126-99-8		
5.089	5.088 (0.869)	53	2968857	200.000	200.36	80.00- 120.00	100.00(A)
5.103	5.102 (0.871)	88	1234057			12.33- 72.33	41.57
5.089	5.088 (0.869)	50	845293			0.00- 57.62	28.47
75 1-Propanol					CAS #: 71-23-8		
5.159	5.158 (0.881)	59	376894	200.000	190.09	80.00- 120.00	100.00
5.159	5.158 (0.881)	42	336012			53.89- 113.89	89.15
5.159	5.158 (0.881)	41	224518			24.09- 84.09	59.57
88 Methyl Acrylate					CAS #: 96-33-3		
5.718	5.718 (0.976)	55	3394404	200.000	196.80	80.00- 120.00	100.00
5.718	5.718 (0.976)	85	452426			0.00- 43.24	13.33
5.718	5.718 (0.976)	58	293115			0.00- 38.83	8.64
103 Isobutanol					CAS #: 78-83-1		
6.320	6.320 (1.079)	39	502488	200.000	192.33	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
103 Isobutanol (continued)							
6.320	6.320 (1.079)	43	1787703			327.69- 387.69	355.77
6.320	6.320 (1.079)	41	1329710			237.56- 297.56	264.63
113 Ethyl acrylate					CAS #: 140-88-5		
7.036	7.036 (0.764)	99	268857	200.000	195.95	80.00- 120.00	100.00
7.036	7.036 (0.764)	45	429287			124.67- 184.67	159.67
7.036	7.036 (0.764)	55	4454742			1601.30-1661.30	1656.92
115 2-Pentanone					CAS #: 107-87-9		
7.137	7.129 (0.775)	43	5288016	200.000	193.50	80.00- 120.00	100.00
7.129	7.129 (0.774)	58	402999			0.00- 37.25	7.62
7.137	7.136 (0.775)	86	774431			0.00- 45.08	14.65
145 Butyl Acetate					CAS #: 123-86-4		
8.626	8.626 (1.278)	56	2383605	200.000	195.39	80.00- 120.00	100.00
8.626	8.626 (1.278)	73	832912			5.16- 65.16	34.94
8.626	8.626 (1.278)	43	5972614			214.00- 274.00	250.57
157 1,1,1,2-Tetrachloroethane					CAS #: 630-20-6		
9.300	9.300 (1.010)	131	2844775	200.000	197.46	80.00- 120.00	100.00
9.207	9.207 (1.000)	117	827873			38.22- 98.22	29.10
9.300	9.293 (1.010)	95	1050455			7.54- 67.54	36.93
166 2-Heptanone					CAS #: 110-43-0		
9.801	9.801 (1.673)	58	3611664	200.000	199.25	80.00- 120.00	100.00
9.801	9.801 (1.673)	43	6120860			133.36- 193.36	169.47
172 D-Limonene					CAS #: 5989-27-5		
11.033	11.033 (1.198)	68	3150257	200.000	217.17	80.00- 120.00	100.00(A)
11.033	11.033 (1.198)	93	2332115			42.08- 102.08	74.03
186 4-Chlorotoluene					CAS #: 106-43-4		
10.582	10.582 (1.149)	126	2475612	200.000	195.49	80.00- 120.00	100.00
10.575	10.575 (1.149)	91	7857970			305.94- 365.94	317.42
10.575	10.575 (1.149)	63	1121819			15.44- 75.44	45.31
197 1,2,3-Trimethylbenzene					CAS #: 526-73-8		
11.212	11.212 (1.218)	120	3332275	200.000	199.09	80.00- 120.00	100.00
11.212	11.212 (1.218)	105	7601630			206.43- 266.43	228.12
11.212	11.212 (1.218)	77	903472			0.00- 58.29	27.11
205 Hexachloroethane					CAS #: 67-72-1		
11.735	11.728 (1.275)	201	2073555	200.000	206.92	80.00- 120.00	100.00(A)
11.728	11.728 (1.274)	117	2881506			109.77- 169.77	138.96

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
208 1,3,5-Trichlorobenzene					CAS #: 108-70-3		
12.387	12.387 (1.345)	180	4945707	200.000	194.44	80.00- 120.00	100.00
12.387	12.387 (1.345)	182	4701216			65.79- 125.79	95.06
210 alpha-Pinene					CAS #: 80-56-8		
9.973	9.973 (1.083)	93	5540291	200.000	203.05	80.00- 120.00	100.00(A)
9.973	9.973 (1.083)	77	1658923			0.13- 60.13	29.94
214 beta-Pinene					CAS #: 127-91-3		
10.560	10.560 (1.147)	93	3937799	200.000	196.48	80.00- 120.00	100.00
10.575	10.575 (1.149)	91	7857970			145.95- 205.95	199.55

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd3.i
Lab File ID: 3081221.d
Lab Smp Id: ICAL Level #11
Analysis Type: VOA
Quant Type: ISTD
Operator: gh
Method File: /chem/msd3.i/12AUG21.b/321q0812a.m
Misc Info: 200ppbv(200ppbv)

Calibration Date: 12-AUG-2021
Calibration Time: 19:05
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	229903	137942	321864	243356	5.85
108 1,4-Difluorobenze	822152	493291	1151013	887948	8.00
153 Chlorobenzene-d5	775771	465463	1086079	827873	6.72

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.86	5.53	6.19	5.86	-0.00
108 1,4-Difluorobenze	6.75	6.42	7.08	6.75	-0.00
153 Chlorobenzene-d5	9.21	8.88	9.54	9.21	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msd3.i/12AUG21.b/3081221.d

Date : 13-AUG-2021 02:00

Client ID:

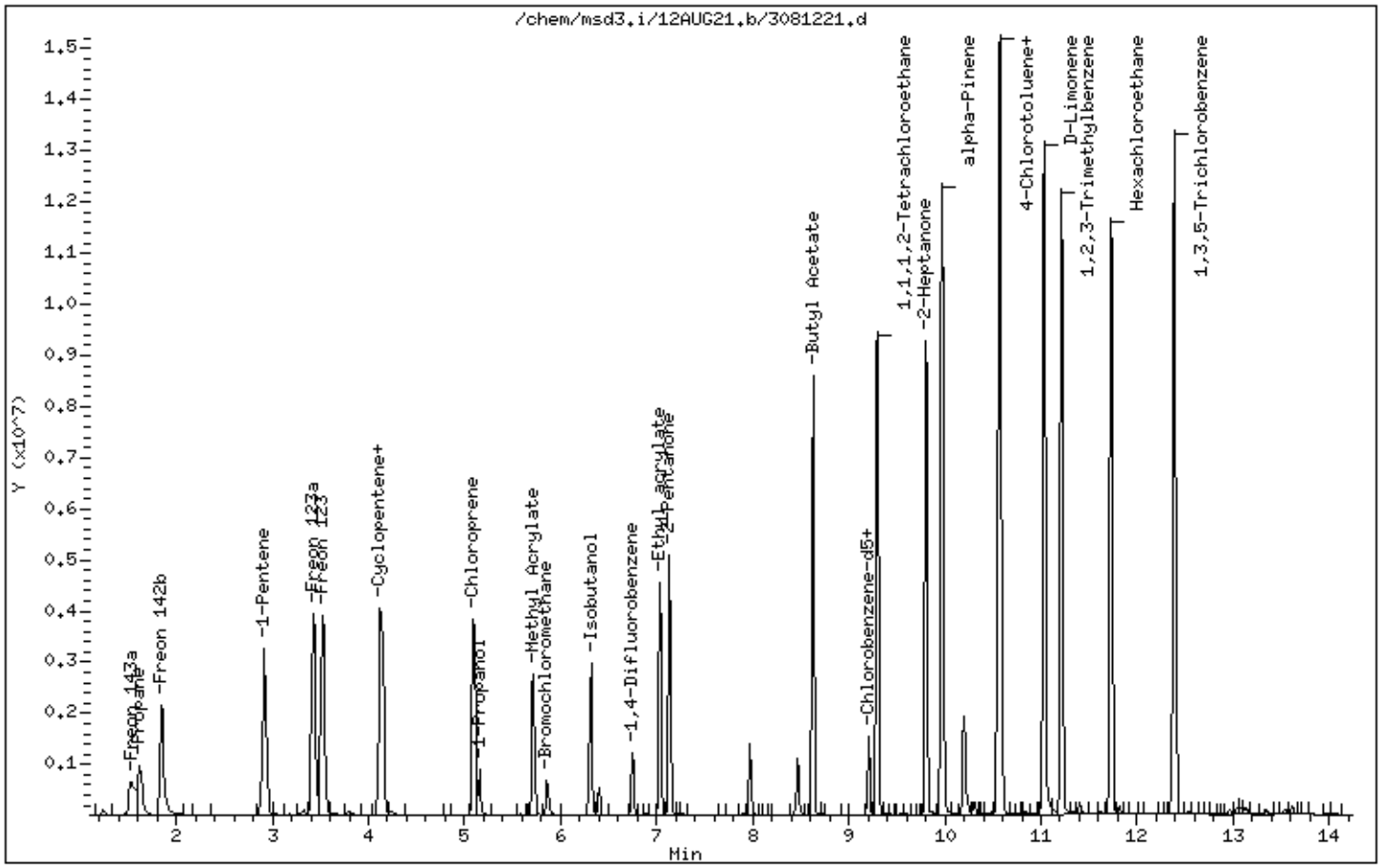
Instrument: msd3.i

Sample Info: 200ml #3018-2127

Operator: gh

Column phase: RTX-624

Column diameter: 0.25



US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msd3.i/12AUG21.b/3081224.d
Lab Smp Id: ICV Client Smp ID: ICV
Inj Date : 13-AUG-2021 08:56
Operator : LD Inst ID: msd3.i
Smp Info : 50ml 3018-2200
Misc Info : 50ppbv(200ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msd3.i/12AUG21.b/321q0812a.m
Meth Date : 13-Aug-2021 15:15 ugdc Quant Type: ISTD
Cal Date : 12-AUG-2021 23:40 Cal File: 3081216.d
Als bottle: 14 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT20_new.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
* 90 Bromochloromethane					CAS #: 74-97-5		
5.858	5.858 (1.000)	130	224837	25.0000		80.00- 120.00	100.00
5.858	5.858 (1.000)	128	174122			47.29- 107.29	77.44
5.858	5.858 (1.000)	49	341056			122.83- 182.83	151.69
* 108 1,4-Difluorobenzene					CAS #: 540-36-3		
6.750	6.750 (1.000)	114	803057	25.0000		80.00- 120.00	100.00
6.750	6.750 (1.000)	88	121004			0.00- 45.09	15.07
* 153 Chlorobenzene-d5					CAS #: 3114-55-4		
9.207	9.207 (1.000)	117	747713	25.0000		80.00- 120.00	100.00
9.207	9.207 (1.000)	82	401540			23.62- 83.62	53.70
$ 104 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
6.404	6.404 (1.093)	65	308015	24.5924	24.592	80.00- 120.00	100.00
6.404	6.404 (1.093)	67	155069			20.51- 80.51	50.34
$ 134 Toluene-d8					CAS #: 2037-26-5		
7.967	7.967 (1.180)	98	803951	24.7495	24.750	80.00- 120.00	100.00
7.967	7.967 (1.180)	70	95920			0.00- 42.00	11.93

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 134 Toluene-d8 (continued)							
7.967	7.967 (1.180)	100	542899			37.14- 97.14	67.53
$ 170 4-Bromofluorobenzene					CAS #: 460-00-4		
10.202	10.202 (1.108)	174	496561	25.2657	25.266	80.00- 120.00	100.00
10.195	10.202 (1.107)	95	605463			92.25- 152.25	121.93
10.202	10.202 (1.108)	176	463532			63.07- 123.07	93.35
4 Freon 134a					CAS #: 811-97-2		
1.576	1.577 (0.269)	83	319217	49.0063	49.006	80.00- 120.00	100.00
1.576	1.577 (0.269)	69	258695			50.75- 110.75	81.04
1.562	1.577 (0.267)	51	66200			0.00- 49.76	20.74
5 Propylene					CAS #: 115-07-1		
1.618	1.619 (0.276)	41	300574	47.1636	47.164	80.00- 120.00	100.00
1.618	1.619 (0.276)	42	200376			36.66- 96.66	66.66
1.618	1.619 (0.276)	39	220914			44.11- 104.11	73.50
7 1,1-Difluoroethane					CAS #: 75-37-6		
1.632	1.633 (0.279)	65	187609	47.2214	47.221	80.00- 120.00	100.00
1.632	1.633 (0.279)	51	485843			217.13- 277.13	258.97
1.632	1.633 (0.279)	47	146817			48.77- 108.77	78.26
8 Freon 12					CAS #: 75-71-8		
1.660	1.661 (0.283)	85	829356	46.4983	46.498	80.00- 120.00	100.00
1.660	1.661 (0.283)	87	269922			2.35- 62.35	32.55
9 Chlorodifluoromethane					CAS #: 75-45-6		
1.688	1.689 (0.288)	67	87907	39.7285	39.728	80.00- 120.00	100.00
1.688	1.689 (0.288)	51	639127			710.68- 770.68	727.05
10 Freon 114					CAS #: 76-14-2		
1.800	1.800 (0.307)	135	622896	45.9428	45.943	80.00- 120.00	100.00
1.800	1.800 (0.307)	137	199179			2.06- 62.06	31.98
12 Isobutane					CAS #: 75-28-5		
1.800	1.800 (0.307)	43	684487	47.4372	47.437	80.00- 120.00	100.00
1.800	1.800 (0.307)	42	223783			2.70- 62.70	32.69
1.800	1.800 (0.307)	58	23391			0.00- 33.44	3.42
15 Chloromethane					CAS #: 74-87-3		
1.884	1.884 (0.322)	50	343333	44.7067	44.707	80.00- 120.00	100.00
1.884	1.884 (0.322)	52	113222			3.38- 63.38	32.98
18 Butane					CAS #: 106-97-8		
1.968	1.968 (0.336)	58	75564	41.7335	41.734	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
18 Butane (continued)							
1.968	1.968 (0.336)	43	597993			760.51- 820.51	791.37
19 Vinyl Chloride					CAS #: 75-01-4		
2.010	2.010 (0.343)	62	343859	41.0351	41.035	80.00- 120.00	100.00
2.010	2.010 (0.343)	64	104498			0.32- 60.32	30.39
20 1,3-Butadiene					CAS #: 106-99-0		
2.038	2.038 (0.348)	54	300912	37.4112	37.411	80.00- 120.00	100.00
2.038	2.038 (0.348)	39	313529			72.94- 132.94	104.19
24 Bromomethane					CAS #: 74-83-9		
2.458	2.458 (0.420)	94	270813	43.2970	43.297	80.00- 120.00	100.00
2.458	2.458 (0.420)	96	256078			63.18- 123.18	94.56
30 Chloroethane					CAS #: 75-00-3		
2.598	2.598 (0.443)	64	170935	45.9081	45.908	80.00- 120.00	100.00
2.598	2.598 (0.443)	66	54526			1.10- 61.10	31.90
2.598	2.598 (0.443)	49	59817			5.46- 65.46	34.99
31 Isopentane					CAS #: 78-78-4		
2.626	2.626 (0.448)	43	452381	46.6219	46.622	80.00- 120.00	100.00
2.626	2.626 (0.448)	57	301382			36.12- 96.12	66.62
32 Vinyl Bromide					CAS #: 593-60-2		
2.836	2.836 (0.484)	106	304710	44.8471	44.847	80.00- 120.00	100.00
2.836	2.836 (0.484)	108	282255			63.01- 123.01	92.63
33 Freon 11					CAS #: 75-69-4		
2.892	2.892 (0.494)	101	903969	45.6070	45.607	80.00- 120.00	100.00
2.892	2.892 (0.494)	103	589091			36.55- 96.55	65.17
34 Dichlorofluoromethane					CAS #: 75-43-4		
2.892	2.906 (0.494)	67	700980	46.4230	46.423	80.00- 120.00	100.00
2.892	2.906 (0.494)	69	219792			1.82- 61.82	31.35
35 Pentane					CAS #: 109-66-0		
2.976	2.976 (0.508)	43	691502	43.1912	43.191	80.00- 120.00	100.00
2.976	2.976 (0.508)	57	106453			0.00- 45.52	15.39
2.976	2.976 (0.508)	72	56888			0.00- 38.25	8.23
38 Ethyl Ether					CAS #: 60-29-7		
3.325	3.326 (0.568)	74	154256	46.5102	46.510	80.00- 120.00	100.00
3.325	3.326 (0.568)	59	263032			143.51- 203.51	170.52
3.325	3.326 (0.568)	45	288693			143.53- 203.53	187.15

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
39 Ethanol					CAS #: 64-17-5		
3.269	3.284 (0.558)	46	65384	41.8886	41.888	80.00- 120.00	100.00
3.269	3.284 (0.558)	45	116682			213.29- 273.29	178.46
42 Acrolein					CAS #: 107-02-8		
3.591	3.591 (0.613)	55	121856	49.2014	49.201	80.00- 120.00	100.00
3.591	3.591 (0.613)	56	166139			104.02- 164.02	136.34
43 Freon 113					CAS #: 76-13-1		
3.591	3.591 (0.613)	151	594605	45.3190	45.319	80.00- 120.00	100.00
3.591	3.591 (0.613)	153	380663			34.03- 94.03	64.02
3.591	3.591 (0.613)	101	716372			89.72- 149.72	120.48
44 1,1-Dichloroethene					CAS #: 75-35-4		
3.619	3.619 (0.618)	96	333338	45.2979	45.298	80.00- 120.00	100.00
3.619	3.619 (0.618)	98	207648			32.85- 92.85	62.29
3.619	3.619 (0.618)	61	655421			165.91- 225.91	196.62
47 Acetone					CAS #: 67-64-1		
3.787	3.787 (0.646)	58	183521	44.1831	44.183	80.00- 120.00	100.00
3.787	3.787 (0.646)	43	659152			325.09- 385.09	359.17
48 Carbon Disulfide					CAS #: 75-15-0		
3.857	3.857 (0.658)	76	876327	46.6763	46.676	80.00- 120.00	100.00
49 Iodomethane					CAS #: 74-88-4		
3.829	3.829 (0.654)	142	872698	54.0075	54.007	80.00- 120.00	100.00
3.829	3.829 (0.654)	127	406955			16.98- 76.98	46.63
52 2-Propanol					CAS #: 67-63-0		
3.941	3.941 (0.673)	45	754305	47.0576	47.058	80.00- 120.00	100.00
3.941	3.941 (0.673)	43	150930			0.00- 49.76	20.01
54 3-Chloropropene					CAS #: 107-05-1		
4.109	4.109 (0.701)	76	142267	43.9188	43.919	80.00- 120.00	100.00
4.109	4.109 (0.701)	41	529054			344.92- 404.92	371.87
57 Acetonitrile					CAS #: 75-05-8		
4.221	4.221 (0.721)	41	310128	43.6182	43.618	80.00- 120.00	100.00
4.221	4.221 (0.721)	40	163247			24.08- 84.08	52.64
4.221	4.221 (0.721)	38	38818			0.00- 42.84	12.52
59 Methylene Chloride					CAS #: 75-09-2		
4.291	4.291 (0.732)	49	482035	46.1444	46.144	80.00- 120.00	100.00
4.291	4.291 (0.732)	84	277775			27.95- 87.95	57.63
4.291	4.291 (0.732)	51	145764			0.78- 60.78	30.24

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
62 tert-Butyl alcohol					CAS #: 75-65-0		
4.403	4.417 (0.752)	59	842680	45.5316	45.532	80.00- 120.00	100.00
4.403	4.417 (0.752)	41	190673			0.00- 52.58	22.63
4.403	4.417 (0.752)	57	95138			0.00- 40.94	11.29
63 Methyl tert-butyl ether					CAS #: 1634-04-4		
4.515	4.515 (0.771)	73	940063	46.6007	46.601	80.00- 120.00	100.00
4.515	4.515 (0.771)	57	264191			0.00- 58.27	28.10
4.515	4.515 (0.771)	41	272957			0.00- 58.78	29.04
64 trans-1,2-Dichloroethene					CAS #: 156-60-5		
4.543	4.543 (0.775)	98	213682	45.7278	45.728	80.00- 120.00	100.00
4.543	4.543 (0.775)	61	577520			236.85- 296.85	270.27
4.543	4.543 (0.775)	96	337463			126.72- 186.72	157.93
66 Acrylonitrile					CAS #: 107-13-1		
4.655	4.655 (0.795)	52	251655	40.7346	40.735	80.00- 120.00	100.00
4.655	4.655 (0.795)	53	298234			88.92- 148.92	118.51
67 Hexane					CAS #: 110-54-3		
4.753	4.753 (0.811)	57	623653	45.8122	45.812	80.00- 120.00	100.00
4.753	4.753 (0.811)	43	414981			36.74- 96.74	66.54
4.753	4.753 (0.811)	86	82315			0.00- 43.22	13.20
71 1,1-Dichloroethane					CAS #: 75-34-3		
5.046	5.047 (0.861)	63	632930	43.8838	43.884	80.00- 120.00	100.00
5.046	5.047 (0.861)	65	193733			0.56- 60.56	30.61
72 Isopropyl ether					CAS #: 108-20-3		
5.018	5.019 (0.857)	45	1384444	46.4736	46.474	80.00- 120.00	100.00
5.018	5.019 (0.857)	87	295000			0.00- 51.44	21.31
5.018	5.019 (0.857)	59	146450			0.00- 40.81	10.58
73 Vinyl Acetate					CAS #: 108-05-4		
5.074	5.089 (0.866)	86	83986	47.0026	47.003	80.00- 120.00	100.00
5.074	5.089 (0.866)	43	1218885			1473.01-1533.01	1451.30
79 Ethyl-tert-butyl ether					CAS #: 637-92-3		
5.382	5.382 (0.919)	59	1279420	47.1639	47.164	80.00- 120.00	100.00
5.382	5.382 (0.919)	87	442123			4.28- 64.28	34.56
5.382	5.382 (0.919)	41	256652			0.00- 49.94	20.06
84 2,2-Dichloropropane					CAS #: 594-20-7		
5.592	5.592 (0.955)	77	627722	46.0546	46.055	80.00- 120.00	100.00
5.592	5.592 (0.955)	79	202737			2.43- 62.43	32.30
5.592	5.592 (0.955)	97	143255			0.00- 53.03	22.82

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
85 cis-1,2-Dichloroethene					CAS #: 156-59-2		
5.620	5.620 (0.959)	98	224687	45.3444	45.344	80.00- 120.00	100.00
5.620	5.620 (0.959)	96	345344			121.91- 181.91	153.70
5.620	5.620 (0.959)	61	771714			313.72- 373.72	343.46
86 2-Butanone					CAS #: 78-93-3		
5.648	5.648 (0.964)	72	162028	44.6733	44.673	80.00- 120.00	100.00
5.662	5.648 (0.967)	43	1811422			1111.25-1171.25	1117.97
5.648	5.648 (0.964)	57	64176			11.22- 71.22	39.61
87 Ethyl Acetate					CAS #: 141-78-6		
5.662	5.662 (0.967)	45	142397	41.9063	41.906	80.00- 120.00	100.00
5.620	5.620 (0.959)	61	771714			469.17- 529.17	541.95
5.662	5.662 (0.967)	70	86907			29.38- 89.38	61.03
89 Tetrahydrofuran					CAS #: 109-99-9		
5.858	5.858 (1.000)	42	474835	43.0340	43.034	80.00- 120.00	100.00
5.858	5.858 (1.000)	71	145907			0.09- 60.09	30.73
5.858	5.858 (1.000)	72	152050			2.13- 62.13	32.02
92 Chloroform					CAS #: 67-66-3		
5.914	5.914 (1.010)	83	712026	44.7741	44.774	80.00- 120.00	100.00
5.914	5.914 (1.010)	85	460918			34.29- 94.29	64.73
94 Cyclohexane					CAS #: 110-82-7		
6.026	6.026 (1.029)	84	441497	45.3522	45.352	80.00- 120.00	100.00
6.026	6.026 (1.029)	56	645917			116.85- 176.85	146.30
6.026	6.026 (1.029)	41	389835			57.77- 117.77	88.30
96 1,1,1-Trichloroethane					CAS #: 71-55-6		
6.054	6.054 (1.033)	97	786524	45.5629	45.563	80.00- 120.00	100.00
6.054	6.054 (1.033)	99	499663			34.55- 94.55	63.53
97 Carbon Tetrachloride					CAS #: 56-23-5		
6.166	6.166 (1.053)	119	812773	48.1276	48.128	80.00- 120.00	100.00
6.166	6.166 (1.053)	117	852264			74.20- 134.20	104.86
99 1,1-Dichloropropene					CAS #: 563-58-6		
6.194	6.194 (0.918)	110	189212	45.8244	45.824	80.00- 120.00	100.00
6.194	6.194 (0.918)	75	498874			229.39- 289.39	263.66
101 2,2,4-Trimethylpentane					CAS #: 540-84-1		
6.348	6.348 (1.084)	57	1988657	45.7136	45.714	80.00- 120.00	100.00
6.348	6.348 (1.084)	56	623588			1.14- 61.14	31.36
6.348	6.348 (1.084)	41	588722			0.00- 59.12	29.60

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
102 Benzene					CAS #: 71-43-2		
6.376	6.376 (0.945)	78	944769	45.3586	45.358	80.00- 120.00	100.00
6.376	6.376 (0.945)	77	222154			0.00- 53.48	23.51
105 tert-Amyl methyl ether					CAS #: 994-05-8		
6.446	6.446 (0.955)	87	255234	47.1622	47.162	80.00- 120.00	100.00
6.432	6.446 (0.953)	73	994814			363.80- 423.80	389.77
6.432	6.446 (0.953)	55	330155			97.13- 157.13	129.35
106 1,2-Dichloroethane					CAS #: 107-06-2		
6.474	6.474 (0.959)	62	565192	45.5267	45.527	80.00- 120.00	100.00
6.474	6.474 (0.959)	64	174937			1.41- 61.41	30.95
107 Heptane					CAS #: 142-82-5		
6.516	6.516 (0.965)	71	371051	45.7718	45.772	80.00- 120.00	100.00
6.516	6.516 (0.965)	43	727080			146.45- 206.45	195.95
6.516	6.516 (0.965)	57	388610			90.20- 150.20	104.73
110 n-Butanol					CAS #: 71-36-3		
6.886	6.893 (1.020)	56	313850	43.6758	43.676	80.00- 120.00	100.00
6.886	6.886 (1.020)	41	234239			44.46- 104.46	74.63
6.886	6.886 (1.020)	43	181725			28.14- 88.14	57.90
111 Trichloroethene					CAS #: 79-01-6		
6.943	6.943 (1.029)	95	464068	45.5784	45.578	80.00- 120.00	100.00
6.950	6.943 (1.030)	130	503014			79.68- 139.68	108.39
6.943	6.943 (1.029)	97	301626			34.74- 94.74	65.00
114 1,2-Dichloropropane					CAS #: 78-87-5		
7.187	7.187 (1.065)	63	419611	45.0062	45.006	80.00- 120.00	100.00
7.187	7.187 (1.065)	62	294439			40.55- 100.55	70.17
7.187	7.187 (1.065)	41	274370			36.07- 96.07	65.39
116 Methyl Methacrylate					CAS #: 80-62-6		
7.230	7.230 (0.785)	69	359988	45.0219	45.022	80.00- 120.00	100.00
7.230	7.230 (0.785)	41	676518			160.67- 220.67	187.93
7.230	7.230 (0.785)	100	147882			11.33- 71.33	41.08
117 1,4-Dioxane					CAS #: 123-91-1		
7.272	7.273 (1.077)	88	240389	41.1808	41.181	80.00- 120.00	100.00
7.272	7.273 (1.077)	58	207064			56.19- 116.19	86.14
7.265	7.273 (1.076)	57	69508			0.00- 59.32	28.91
118 Dibromomethane					CAS #: 74-95-3		
7.294	7.294 (0.792)	174	435799	46.1483	46.148	80.00- 120.00	100.00
7.294	7.294 (0.792)	93	425948			66.88- 126.88	97.74

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
118 Dibromomethane (continued)							
7.294	7.294 (0.792)	95	344691			49.90- 109.90	79.09
122 Bromodichloromethane					CAS #: 75-27-4		
7.409	7.409 (1.098)	83	768424	45.1265	45.126	80.00- 120.00	100.00
7.409	7.409 (1.098)	85	496684			33.85- 93.85	64.64
126 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.781	7.781 (1.153)	75	601447	46.3840	46.384	80.00- 120.00	100.00
7.781	7.781 (1.153)	77	194744			1.50- 61.50	32.38
7.781	7.781 (1.153)	39	437954			43.12- 103.12	72.82
127 Methylcyclohexane					CAS #: 108-87-2		
7.050	7.051 (1.045)	83	590908	45.9796	45.980	80.00- 120.00	100.00
7.050	7.051 (1.045)	98	278899			17.10- 77.10	47.20
7.050	7.051 (1.045)	55	598602			71.11- 131.11	101.30
131 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.889	7.889 (1.169)	58	372186	41.1798	41.180	80.00- 120.00	100.00
7.889	7.889 (1.169)	43	1034610			247.84- 307.84	277.98
7.889	7.889 (1.169)	85	143975			8.73- 68.73	38.68
137 Toluene					CAS #: 108-88-3		
8.025	8.025 (1.189)	91	1264239	45.6779	45.678	80.00- 120.00	100.00
8.025	8.025 (1.189)	92	736789			28.13- 88.13	58.28
136 Octane					CAS #: 111-65-9		
8.010	8.010 (1.187)	57	423655	45.5101	45.510	80.00- 120.00	100.00
8.010	8.010 (1.187)	85	410053			67.77- 127.77	96.79
8.010	8.010 (1.187)	43	1069719			225.27- 285.27	252.50
139 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
8.254	8.254 (0.897)	75	586834	46.3883	46.388	80.00- 120.00	100.00
8.254	8.254 (0.897)	77	185117			1.93- 61.93	31.55
8.254	8.254 (0.897)	39	402275			38.37- 98.37	68.55
141 1,1,2-Trichloroethane					CAS #: 79-00-5		
8.419	8.419 (0.914)	97	434887	46.0640	46.064	80.00- 120.00	100.00
8.419	8.419 (0.914)	99	266856			31.66- 91.66	61.36
8.411	8.419 (0.914)	83	361511			55.24- 115.24	83.13
142 Tetrachloroethene					CAS #: 127-18-4		
8.462	8.462 (0.919)	166	645957	46.9152	46.915	80.00- 120.00	100.00
8.462	8.462 (0.919)	129	503592			48.51- 108.51	77.96
8.462	8.462 (0.919)	131	487698			45.64- 105.64	75.50

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
143 2-Hexanone					CAS #: 591-78-6		
8.576	8.576 (0.932)	58	511990	38.4811	38.481	80.00- 120.00	100.00
8.576	8.576 (0.932)	43	1023813			169.24- 229.24	199.97
8.576	8.576 (0.932)	100	97473			0.00- 48.72	19.04
144 1,3-Dichloropropane					CAS #: 142-28-9		
8.569	8.569 (1.270)	76	588598	43.0443	43.044	80.00- 120.00	100.00
8.569	8.569 (1.270)	41	709491			96.83- 156.83	120.54
8.569	8.569 (1.270)	78	193381			2.46- 62.46	32.85
146 Dibromochloromethane					CAS #: 124-48-1		
8.734	8.734 (0.949)	129	895062	47.5170	47.517	80.00- 120.00	100.00
8.734	8.734 (0.949)	127	694838			47.05- 107.05	77.63
148 1,2-Dibromoethane (EDB)					CAS #: 106-93-4		
8.856	8.856 (0.962)	107	702056	46.0290	46.029	80.00- 120.00	100.00
8.856	8.856 (0.962)	109	669300			64.74- 124.74	95.33
151 1-Bromo-2-Chloroethane					CAS #: 107-04-0		
7.702	7.702 (1.141)	63	772845	46.2784	46.278	80.00- 120.00	100.00
7.702	7.702 (1.141)	65	232412			0.05- 60.05	30.07
7.702	7.702 (1.141)	144	85169			0.00- 40.91	11.02
154 Chlorobenzene					CAS #: 108-90-7		
9.235	9.235 (1.003)	112	1080210	46.0560	46.056	80.00- 120.00	100.00
9.235	9.235 (1.003)	114	346873			2.19- 62.19	32.11
9.235	9.235 (1.003)	77	580173			23.66- 83.66	53.71
155 Ethyl Benzene					CAS #: 100-41-4		
9.278	9.278 (1.008)	106	551011	47.4381	47.438	80.00- 120.00	100.00
9.278	9.278 (1.008)	91	1712074			282.43- 342.43	310.72
156 Nonane					CAS #: 111-84-2		
9.278	9.278 (1.008)	43	1101015	47.0408	47.041	80.00- 120.00	100.00
9.278	9.278 (1.008)	57	938331			55.73- 115.73	85.22
9.278	9.278 (1.008)	85	320292			0.00- 58.99	29.09
157 1,1,1,2-Tetrachloroethane					CAS #: 630-20-6		
9.300	9.300 (1.010)	131	528033	40.5815	40.582	80.00- 120.00	100.00
9.207	9.207 (1.000)	117	747713			38.22- 98.22	141.60
9.300	9.293 (1.010)	95	197784			7.54- 67.54	37.46
158 m,p-Xylene					CAS #: 108-38-3		
9.371	9.371 (1.018)	106	681591	47.7783	47.778	80.00- 120.00	100.00
9.371	9.371 (1.018)	91	1357260			169.66- 229.66	199.13

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
164 o-Xylene					CAS #: 95-47-6		
9.722	9.722 (1.056)	106	637564	47.1330	47.133	80.00- 120.00	100.00
9.722	9.722 (1.056)	91	1337489			180.55- 240.55	209.78
165 Styrene					CAS #: 100-42-5		
9.737	9.737 (1.058)	104	1084712	46.3077	46.308	80.00- 120.00	100.00
9.737	9.737 (1.058)	78	526454			18.65- 78.65	48.53
167 Bromoform					CAS #: 75-25-2		
9.944	9.944 (1.080)	173	846314	47.3647	47.365	80.00- 120.00	100.00
9.944	9.944 (1.080)	171	438028			21.64- 81.64	51.76
168 Cumene					CAS #: 98-82-8		
10.009	10.009 (1.087)	105	1992715	46.3796	46.380	80.00- 120.00	100.00
10.009	10.009 (1.087)	120	540175			0.00- 57.04	27.11
10.009	10.009 (1.087)	51	240420			0.00- 41.95	12.06
169 Cyclohexanone					CAS #: 108-94-1		
10.188	10.188 (1.107)	55	574973	29.4587	29.459	80.00- 120.00	100.00(R)
10.188	10.188 (1.107)	98	221735			8.59- 68.59	38.56
10.188	10.188 (1.107)	42	437889			46.18- 106.18	76.16
175 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
10.317	10.317 (1.121)	83	943371	45.0401	45.040	80.00- 120.00	100.00
10.317	10.317 (1.121)	85	606821			34.44- 94.44	64.32
177 Bromobenzene					CAS #: 108-86-1		
10.345	10.338 (1.124)	156	641869	46.9860	46.986	80.00- 120.00	100.00
10.345	10.346 (1.124)	158	627538			67.20- 127.20	97.77
10.345	10.338 (1.124)	77	1036994			131.36- 191.36	161.56
178 Propylbenzene					CAS #: 103-65-1		
10.360	10.360 (1.125)	120	566062	45.8958	45.896	80.00- 120.00	100.00
10.360	10.360 (1.125)	91	2381079	46.7448	46.745	385.23- 445.23	420.64
10.360	10.360 (1.125)	105	91740			0.00- 46.02	16.21
179 1,2,3-Trichloropropane					CAS #: 96-18-4		
10.388	10.389 (1.128)	110	305566	45.3606	45.361	80.00- 120.00	100.00
10.381	10.381 (1.128)	75	1076144			301.57- 361.57	352.18
10.381	10.381 (1.128)	61	261485			54.32- 114.32	85.57
181 trans-1,4-Dichloro-2-butene					CAS #: 110-57-6		
10.374	10.374 (1.127)	53	305911	57.0263	57.026	80.00- 120.00	100.00
10.374	10.374 (1.127)	89	205105			40.38- 100.38	67.05
10.381	10.374 (1.128)	75	1076144			394.61- 454.61	351.78

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
182 Decane					CAS #: 124-18-5		
10.396	10.396 (1.129)	57	1185092	42.2450	42.245	80.00- 120.00	100.00
10.396	10.396 (1.129)	71	390477			2.98- 62.98	32.95
10.396	10.396 (1.129)	142	61007			0.00- 35.12	5.15
183 4-Ethyltoluene					CAS #: 622-96-8		
10.453	10.453 (1.135)	120	606816	45.5695	45.570	80.00- 120.00	100.00
10.453	10.453 (1.135)	105	2056387			295.29- 355.29	338.88
184 2-Chlorotoluene					CAS #: 95-49-8		
10.482	10.482 (1.138)	126	506714	45.7660	45.766	80.00- 120.00	100.00
10.482	10.482 (1.138)	91	1790969			325.01- 385.01	353.45
10.482	10.482 (1.138)	65	225502			19.90- 79.90	44.50
185 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
10.503	10.503 (1.141)	120	854746	46.0143	46.014	80.00- 120.00	100.00
10.503	10.503 (1.141)	105	1688759			176.14- 236.14	197.57
188 alpha Methyl Styrene					CAS #: 98-83-9		
10.711	10.704 (1.163)	118	871054	47.0670	47.067	80.00- 120.00	100.00
10.704	10.704 (1.163)	103	495753			26.69- 86.69	56.91
189 tert-Butylbenzene					CAS #: 98-06-6		
10.782	10.783 (1.171)	119	1599932	45.9869	45.987	80.00- 120.00	100.00
10.782	10.783 (1.171)	134	397626			0.00- 54.52	24.85
10.782	10.783 (1.171)	91	1060999			34.68- 94.68	66.32
190 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
10.833	10.833 (1.177)	105	1672413	46.3897	46.390	80.00- 120.00	100.00
10.833	10.833 (1.177)	120	792093			17.12- 77.12	47.36
192 sec-Butylbenzene					CAS #: 135-98-8		
10.969	10.969 (1.191)	134	509751	44.3626	44.363	80.00- 120.00	100.00
10.969	10.969 (1.191)	105	2408593			438.96- 498.96	472.50
10.969	10.969 (1.191)	91	384864			44.37- 104.37	75.50
194 p-Cymene					CAS #: 99-87-6		
11.083	11.083 (1.204)	119	2132810	45.0714	45.071	80.00- 120.00	100.00
11.083	11.083 (1.204)	134	572836			0.00- 56.91	26.86
11.083	11.083 (1.204)	91	503259			0.00- 53.86	23.60
195 1,3-Dichlorobenzene					CAS #: 541-73-1		
11.133	11.134 (1.209)	146	1160912	45.1568	45.157	80.00- 120.00	100.00
11.133	11.134 (1.209)	148	742652			33.78- 93.78	63.97
11.133	11.134 (1.209)	111	472771			11.40- 71.40	40.72

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
196 1,4-Dichlorobenzene					CAS #: 106-46-7		
11.212	11.212 (1.218)	146	1182975	45.1732	45.173	80.00- 120.00	100.00
11.212	11.212 (1.218)	148	758194			33.73- 93.73	64.09
11.212	11.212 (1.218)	111	469496			9.40- 69.40	39.69
199 alpha-Chlorotoluene					CAS #: 100-44-7		
11.334	11.334 (1.231)	91	1609680	45.1413	45.141	80.00- 120.00	100.00
11.334	11.334 (1.231)	126	362313			0.00- 52.58	22.51
201 Undecane					CAS #: 1120-21-4		
11.406	11.406 (1.239)	57	1316433	41.7670	41.767	80.00- 120.00	100.00
11.406	11.406 (1.239)	43	1209592			62.03- 122.03	91.88
202 Butylbenzene					CAS #: 104-51-8		
11.441	11.434 (1.243)	134	548099	43.2941	43.294	80.00- 120.00	100.00
11.434	11.434 (1.242)	91	1937826			322.91- 382.91	353.55
11.434	11.434 (1.242)	92	1017750			155.43- 215.43	185.69
204 1,2-Dichlorobenzene					CAS #: 95-50-1		
11.549	11.549 (1.254)	146	1097082	44.0547	44.055	80.00- 120.00	100.00
11.549	11.549 (1.254)	148	701088			33.66- 93.66	63.90
11.549	11.549 (1.254)	111	464638			12.36- 72.36	42.35
206 1,2-Dibromo-3-chloropropane					CAS #: 96-12-8		
12.258	12.258 (1.331)	157	659001	43.0437	43.044	80.00- 120.00	100.00
12.258	12.258 (1.331)	75	573190			56.77- 116.77	86.98
12.258	12.258 (1.331)	155	514271			48.17- 108.17	78.04
207 Dodecane					CAS #: 112-40-3		
12.358	12.358 (1.342)	57	1243391	44.1832	44.183	80.00- 120.00	100.00
12.358	12.358 (1.342)	43	1081072			56.62- 116.62	86.95
213 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
13.046	13.039 (1.417)	180	956776	49.4091	49.409	80.00- 120.00	100.00
13.046	13.039 (1.417)	182	911386			64.88- 124.88	95.26
215 Hexachlorobutadiene					CAS #: 87-68-3		
13.139	13.132 (1.427)	225	740377	52.9459	52.946	80.00- 120.00	100.00
13.139	13.132 (1.427)	223	468997			33.46- 93.46	63.35
216 Naphthalene					CAS #: 91-20-3		
13.354	13.340 (1.450)	128	227648	4.26668	4.267	80.00- 120.00	100.00
13.354	13.340 (1.450)	127	30891			0.00- 43.71	13.57
222 1,2,3-Trichlorobenzene					CAS #: 87-61-6		
13.633	13.619 (1.481)	180	844247	46.9310	46.931	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
222 1,2,3-Trichlorobenzene (continued)							
13.633	13.619 (1.481)	182	815546			66.23- 126.23	96.60
13.633	13.612 (1.481)	145	302153			5.93- 65.93	35.79

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd3.i
Lab File ID: 3081224.d
Lab Smp Id: ICV
Analysis Type: VOA
Quant Type: ISTD
Operator: LD
Method File: /chem/msd3.i/12AUG21.b/321q0812a.m
Misc Info: 50ppbv(200ppbv)

Calibration Date: 12-AUG-2021
Calibration Time: 19:05
Client Smp ID: ICV
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	229903	137942	321864	224837	-2.20
108 1,4-Difluorobenze	822152	493291	1151013	803057	-2.32
153 Chlorobenzene-d5	775771	465463	1086079	747713	-3.62

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.86	5.53	6.19	5.86	-0.00
108 1,4-Difluorobenze	6.75	6.42	7.08	6.75	-0.00
153 Chlorobenzene-d5	9.21	8.88	9.54	9.21	-0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

US32TAR1

RECOVERY REPORT

Client Name: Client SDG: 12AUG21
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: ICV Client Smp ID: ICV
Level: LOW Operator: LD
Data Type: MS DATA SampleType: LCS
SpikeList File: AT20_new.spk Quant Type: ISTD
Sublist File: AT20_new.sub
Method File: /chem/msd3.i/12AUG21.b/321q0812a.m
Misc Info: 50ppbv(200ppbv)

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
4 Freon 134a	50.000	49.006	98.01	70-130
5 Propylene	50.000	47.164	94.33	70-130
7 1,1-Difluoroethan	50.000	47.221	94.44	70-130
8 Freon 12	50.000	46.498	93.00	70-130
9 Chlorodifluoromet	50.000	39.728	79.46	70-130
10 Freon 114	50.000	45.943	91.89	70-130
12 Isobutane	50.000	47.437	94.87	70-130
15 Chloromethane	50.000	44.707	89.41	70-130
18 Butane	50.000	41.734	83.47	70-130
19 Vinyl Chloride	50.000	41.035	82.07	70-130
20 1,3-Butadiene	50.000	37.411	74.82	70-130
24 Bromomethane	50.000	43.297	86.59	70-130
30 Chloroethane	50.000	45.908	91.82	70-130
31 Isopentane	50.000	46.622	93.24	70-130
32 Vinyl Bromide	50.000	44.847	89.69	70-130
33 Freon 11	50.000	45.607	91.21	70-130
34 Dichlorofluoromet	50.000	46.423	92.85	70-130
35 Pentane	50.000	43.191	86.38	70-130
38 Ethyl Ether	50.000	46.510	93.02	70-130
39 Ethanol	58.000	41.888	72.22	70-130
42 Acrolein	58.000	49.201	84.83	70-130
43 Freon 113	50.000	45.319	90.64	70-130
44 1,1-Dichloroethen	50.000	45.298	90.60	70-130
47 Acetone	50.000	44.183	88.37	70-130
48 Carbon Disulfide	50.000	46.676	93.35	70-130
49 Iodomethane	50.000	54.007	108.01	70-130
52 2-Propanol	50.000	47.058	94.12	70-130
54 3-Chloropropene	50.000	43.919	87.84	70-130
57 Acetonitrile	50.000	43.618	87.24	70-130
59 Methylene Chlorid	50.000	46.144	92.29	70-130
62 tert-Butyl alcoho	50.000	45.532	91.06	70-130
63 Methyl tert-butyl	50.000	46.601	93.20	70-130
64 trans-1,2-Dichlor	50.000	45.728	91.46	70-130

	SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
66	Acrylonitrile	50.000	40.735	81.47	70-130
67	Hexane	50.000	45.812	91.62	70-130
71	1,1-Dichloroethan	50.000	43.884	87.77	70-130
72	Isopropyl ether	50.000	46.474	92.95	70-130
73	Vinyl Acetate	50.000	47.003	94.01	70-130
79	Ethyl-tert-butyl	50.000	47.164	94.33	70-130
84	2,2-Dichloropropa	50.000	46.055	92.11	70-130
85	cis-1,2-Dichloroe	50.000	45.344	90.69	70-130
86	2-Butanone	50.000	44.673	89.35	70-130
87	Ethyl Acetate	50.000	41.906	83.81	70-130
89	Tetrahydrofuran	50.000	43.034	86.07	70-130
92	Chloroform	50.000	44.774	89.55	70-130
94	Cyclohexane	50.000	45.352	90.70	70-130
96	1,1,1-Trichloroet	50.000	45.563	91.13	70-130
99	1,1-Dichloroprope	50.000	45.824	91.65	70-130
97	Carbon Tetrachlor	50.000	48.128	96.26	70-130
101	2,2,4-Trimethylpe	50.000	45.714	91.43	70-130
102	Benzene	50.000	45.358	90.72	70-130
105	tert-Amyl methyl	50.000	47.162	94.32	70-130
106	1,2-Dichloroethan	50.000	45.527	91.05	70-130
107	Heptane	50.000	45.772	91.54	70-130
110	n-Butanol	50.000	43.676	87.35	70-130
111	Trichloroethene	50.000	45.578	91.16	70-130
118	Dibromomethane	50.000	46.148	92.30	70-130
127	Methylcyclohexane	50.000	45.980	91.96	70-130
114	1,2-Dichloropropa	50.000	45.006	90.01	70-130
116	Methyl Methacryla	50.000	45.022	90.04	70-130
117	1,4-Dioxane	50.000	41.181	82.36	70-130
122	Bromodichlorometh	50.000	45.126	90.25	70-130
126	cis-1,3-Dichlorop	50.000	46.384	92.77	70-130
131	4-Methyl-2-pentan	50.000	41.180	82.36	70-130
136	Octane	50.000	45.510	91.02	70-130
137	Toluene	50.000	45.678	91.36	70-130
139	trans-1,3-Dichlor	50.000	46.388	92.78	70-130
141	1,1,2-Trichloroet	50.000	46.064	92.13	70-130
142	Tetrachloroethene	50.000	46.915	93.83	70-130
143	2-Hexanone	50.000	38.481	76.96	70-130
144	1,3-Dichloropropa	50.000	43.044	86.09	70-130
146	Dibromochlorometh	50.000	47.517	95.03	70-130
148	1,2-Dibromoethane	50.000	46.029	92.06	70-130
151	1-Bromo-2-Chloroe	50.000	46.278	92.56	70-130
154	Chlorobenzene	50.000	46.056	92.11	70-130
155	Ethyl Benzene	50.000	47.438	94.88	70-130
156	Nonane	50.000	47.041	94.08	70-130
157	1,1,1,2-Tetrachlo	50.000	40.582	81.16	70-130
158	m,p-Xylene	50.000	47.778	95.56	70-130
164	o-Xylene	50.000	47.133	94.27	70-130

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
165 Styrene	50.000	46.308	92.62	70-130
167 Bromoform	50.000	47.365	94.73	70-130
168 Cumene	50.000	46.380	92.76	70-130
169 Cyclohexanone	50.000	29.459	58.92*	70-130
175 1,1,2,2-Tetrachlo	50.000	45.040	90.08	70-130
177 Bromobenzene	50.000	46.986	93.97	70-130
178 Propylbenzene	50.000	45.896	91.79	70-130
179 1,2,3-Trichloropr	50.000	45.361	90.72	70-130
181 trans-1,4-Dichlor	50.000	57.026	114.05	70-130
182 Decane	50.000	42.245	84.49	70-130
183 4-Ethyltoluene	50.000	45.570	91.14	70-130
184 2-Chlorotoluene	50.000	45.766	91.53	70-130
185 1,3,5-Trimethylbe	50.000	46.014	92.03	70-130
188 alpha Methyl Styr	50.000	47.067	94.13	70-130
189 tert-Butylbenzene	50.000	45.987	91.97	70-130
190 1,2,4-Trimethylbe	50.000	46.390	92.78	70-130
192 sec-Butylbenzene	50.000	44.363	88.73	70-130
194 p-Cymene	50.000	45.071	90.14	70-130
195 1,3-Dichlorobenze	50.000	45.157	90.31	70-130
196 1,4-Dichlorobenze	50.000	45.173	90.35	70-130
199 alpha-Chlorotolue	50.000	45.141	90.28	70-130
201 Undecane	50.000	41.767	83.53	70-130
202 Butylbenzene	50.000	43.294	86.59	70-130
204 1,2-Dichlorobenze	50.000	44.055	88.11	70-130
206 1,2-Dibromo-3-chl	50.000	43.044	86.09	70-130
207 Dodecane	50.000	44.183	88.37	70-130
213 1,2,4-Trichlorobe	58.000	49.409	85.19	70-130
215 Hexachlorobutadie	58.000	52.946	91.29	70-130
216 Naphthalene	5.800	4.267	73.56	60-140
222 1,2,3-Trichlorobe	58.000	46.931	80.92	70-130

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 104 1,2-Dichloroethan	25.000	24.592	98.37	70-130
$ 134 Toluene-d8	25.000	24.750	99.00	70-130
$ 170 4-Bromofluorobenz	25.000	25.266	101.06	70-130

Data File: /chem/msd3.i/12AUG21.b/3081224.d

Page 1

Date : 13-AUG-2021 08:56

Client ID: ICV

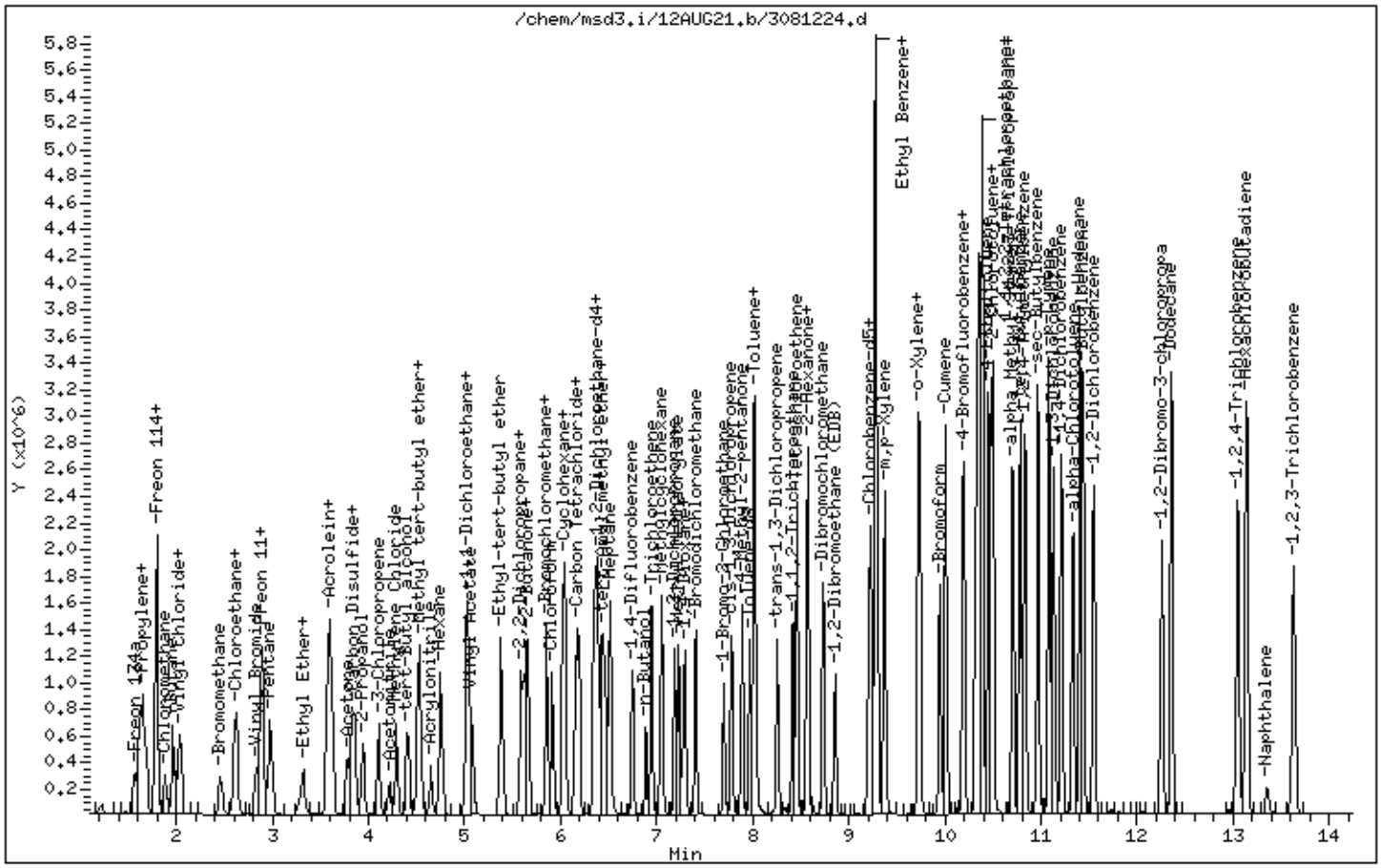
Instrument: msd3.i

Sample Info: 50ml 3018-2200

Operator: LD

Column phase: RTX-624

Column diameter: 0.25



US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msd3.i/02SEP21.b/3090205.d
Lab Smp Id: LCS Client Smp ID: LCS
Inj Date : 02-SEP-2021 11:28
Operator : LD Inst ID: msd3.i
Smp Info : 50mL 3018-2169
Misc Info : 50ppbv (200ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msd3.i/02SEP21.b/321q0812b.m
Meth Date : 07-Sep-2021 15:20 ugdc Quant Type: ISTD
Cal Date : 02-SEP-2021 10:33 Cal File: 3090203.d
Als bottle: 14 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT20_new.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)		
RT	EXP RT (REL RT)	MASS	RESPONSE				TARGET RANGE	RATIO
* 90 Bromochloromethane						CAS #: 74-97-5		
5.858	5.858 (1.000)	130	254322	25.0000			80.00- 120.00	100.00
5.858	5.858 (1.000)	128	198512				47.29- 107.29	78.06
5.858	5.858 (1.000)	49	428735				122.83- 182.83	168.58
* 108 1,4-Difluorobenzene						CAS #: 540-36-3		
6.743	6.750 (1.000)	114	908573	25.0000			80.00- 120.00	100.00
6.743	6.750 (1.000)	88	136405				0.00- 45.09	15.01
* 153 Chlorobenzene-d5						CAS #: 3114-55-4		
9.207	9.206 (1.000)	117	835766	25.0000			80.00- 120.00	100.00
9.207	9.206 (1.000)	82	451176				23.62- 83.62	53.98
$ 104 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
6.390	6.404 (1.091)	65	341922	24.1308	24.131		80.00- 120.00	100.00
6.390	6.404 (1.091)	67	183457				20.51- 80.51	53.65
$ 134 Toluene-d8						CAS #: 2037-26-5		
7.968	7.967 (1.182)	98	953131	26.0314	26.031		80.00- 120.00	100.00
7.968	7.967 (1.182)	70	105978				0.00- 42.00	11.12

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 134 Toluene-d8 (continued)							
7.968	7.967 (1.182)	100	646530			37.14- 97.14	67.83
$ 170 4-Bromofluorobenzene					CAS #: 460-00-4		
10.195	10.202 (1.107)	174	549741	25.1576	25.158	80.00- 120.00	100.00
10.195	10.202 (1.107)	95	672272			92.25- 152.25	122.29
10.195	10.202 (1.107)	176	510143			63.07- 123.07	92.80
4 Freon 134a					CAS #: 811-97-2		
1.577	1.576 (0.269)	83	369976	50.2138	50.214	80.00- 120.00	100.00
1.577	1.576 (0.269)	69	315697			50.75- 110.75	85.33
1.577	1.576 (0.269)	51	75768			0.00- 49.76	20.48
5 Propylene					CAS #: 115-07-1		
1.619	1.618 (0.276)	41	391910	54.3658	54.366	80.00- 120.00	100.00
1.619	1.618 (0.276)	42	258332			36.66- 96.66	65.92
1.619	1.618 (0.276)	39	279931			44.11- 104.11	71.43
7 1,1-Difluoroethane					CAS #: 75-37-6		
1.633	1.632 (0.279)	65	232433	51.7210	51.721	80.00- 120.00	100.00
1.633	1.632 (0.279)	51	573180			217.13- 277.13	246.60
1.633	1.646 (0.279)	47	168743			48.77- 108.77	72.60
8 Freon 12					CAS #: 75-71-8		
1.661	1.660 (0.283)	85	982871	48.7165	48.716	80.00- 120.00	100.00
1.661	1.660 (0.283)	87	318217			2.35- 62.35	32.38
9 Chlorodifluoromethane					CAS #: 75-45-6		
1.689	1.688 (0.288)	67	101910	40.7173	40.717	80.00- 120.00	100.00
1.689	1.688 (0.288)	51	854796			710.68- 770.68	838.78
10 Freon 114					CAS #: 76-14-2		
1.801	1.800 (0.307)	135	739185	48.1991	48.199	80.00- 120.00	100.00
1.801	1.800 (0.307)	137	239172			2.06- 62.06	32.36
12 Isobutane					CAS #: 75-28-5		
1.815	1.814 (0.310)	43	888064	54.4105	54.410	80.00- 120.00	100.00
1.815	1.814 (0.310)	42	295126			2.70- 62.70	33.23
1.801	1.800 (0.307)	58	28718			0.00- 33.44	3.23
15 Chloromethane					CAS #: 74-87-3		
1.884	1.884 (0.322)	50	429592	49.4535	49.454	80.00- 120.00	100.00
1.884	1.884 (0.322)	52	139379			3.38- 63.38	32.44
18 Butane					CAS #: 106-97-8		
1.968	1.968 (0.336)	58	84609	41.3115	41.311	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
18 Butane (continued)							
1.968	1.968 (0.336)	43	704866			760.51- 820.51	833.09
19 Vinyl Chloride					CAS #: 75-01-4		
2.010	2.010 (0.343)	62	399879	42.1879	42.188	80.00- 120.00	100.00
2.010	2.010 (0.343)	64	121226			0.32- 60.32	30.32
20 1,3-Butadiene					CAS #: 106-99-0		
2.038	2.052 (0.348)	54	385496	42.3708	42.371	80.00- 120.00	100.00
2.038	2.052 (0.348)	39	392860			72.94- 132.94	101.91
24 Bromomethane					CAS #: 74-83-9		
2.458	2.458 (0.420)	94	329390	46.5568	46.557	80.00- 120.00	100.00
2.458	2.458 (0.420)	96	309015			63.18- 123.18	93.81
30 Chloroethane					CAS #: 75-00-3		
2.598	2.598 (0.443)	64	216028	51.2923	51.292	80.00- 120.00	100.00
2.598	2.598 (0.443)	66	67427			1.10- 61.10	31.21
2.598	2.598 (0.443)	49	75859			5.46- 65.46	35.12
31 Isopentane					CAS #: 78-78-4		
2.626	2.626 (0.448)	43	588234	53.5944	53.594	80.00- 120.00	100.00
2.626	2.626 (0.448)	57	378970			36.12- 96.12	64.43
32 Vinyl Bromide					CAS #: 593-60-2		
2.836	2.836 (0.484)	106	358533	46.6509	46.651	80.00- 120.00	100.00
2.836	2.836 (0.484)	108	338192			63.01- 123.01	94.33
33 Freon 11					CAS #: 75-69-4		
2.892	2.892 (0.494)	101	1063958	47.4555	47.455	80.00- 120.00	100.00
2.892	2.892 (0.494)	103	695685			36.55- 96.55	65.39
34 Dichlorofluoromethane					CAS #: 75-43-4		
2.906	2.906 (0.496)	67	853955	49.9973	49.997	80.00- 120.00	100.00
2.906	2.906 (0.496)	69	265105			1.82- 61.82	31.04
35 Pentane					CAS #: 109-66-0		
2.976	2.976 (0.508)	43	898468	49.6121	49.612	80.00- 120.00	100.00
2.976	2.976 (0.508)	57	134990			0.00- 45.52	15.02
2.976	2.990 (0.508)	72	69516			0.00- 38.25	7.74
38 Ethyl Ether					CAS #: 60-29-7		
3.326	3.325 (0.568)	74	187939	50.0965	50.096	80.00- 120.00	100.00
3.326	3.325 (0.568)	59	335045			143.51- 203.51	178.27
3.312	3.325 (0.565)	45	357641			143.53- 203.53	190.30

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
39 Ethanol					CAS #: 64-17-5		
3.270	3.269 (0.558)	46	82014	46.4511	46.451	80.00- 120.00	100.00
3.270	3.269 (0.558)	45	165119			213.29- 273.29	201.33
42 Acrolein					CAS #: 107-02-8		
3.577	3.591 (0.611)	55	156839	55.9846	55.984	80.00- 120.00	100.00
3.577	3.591 (0.611)	56	214756			104.02- 164.02	136.93
43 Freon 113					CAS #: 76-13-1		
3.591	3.591 (0.613)	151	711767	47.9594	47.959	80.00- 120.00	100.00
3.591	3.591 (0.613)	153	455671			34.03- 94.03	64.02
3.591	3.591 (0.613)	101	860252			89.72- 149.72	120.86
44 1,1-Dichloroethene					CAS #: 75-35-4		
3.619	3.619 (0.618)	96	407039	48.9005	48.900	80.00- 120.00	100.00
3.619	3.619 (0.618)	98	259289			32.85- 92.85	63.70
3.619	3.619 (0.618)	61	801678			165.91- 225.91	196.95
47 Acetone					CAS #: 67-64-1		
3.773	3.787 (0.644)	58	238644	50.7931	50.793	80.00- 120.00	100.00
3.773	3.787 (0.644)	43	822948			325.09- 385.09	344.84
48 Carbon Disulfide					CAS #: 75-15-0		
3.857	3.857 (0.658)	76	1100153	51.8045	51.804	80.00- 120.00	100.00
49 Iodomethane					CAS #: 74-88-4		
3.829	3.829 (0.654)	142	1032243	56.4749	56.475	80.00- 120.00	100.00
3.829	3.829 (0.654)	127	470760			16.98- 76.98	45.61
52 2-Propanol					CAS #: 67-63-0		
3.941	3.941 (0.673)	45	951770	52.4926	52.493	80.00- 120.00	100.00
3.941	3.941 (0.673)	43	191535			0.00- 49.76	20.12
54 3-Chloropropene					CAS #: 107-05-1		
4.109	4.109 (0.701)	76	176569	48.1887	48.189	80.00- 120.00	100.00
4.109	4.109 (0.701)	41	693320			344.92- 404.92	392.66
57 Acetonitrile					CAS #: 75-05-8		
4.207	4.221 (0.718)	41	423519	52.6603	52.660	80.00- 120.00	100.00
4.207	4.221 (0.718)	40	222787			24.08- 84.08	52.60
4.207	4.221 (0.718)	38	48943			0.00- 42.84	11.56
59 Methylene Chloride					CAS #: 75-09-2		
4.291	4.291 (0.732)	49	620251	52.4918	52.492	80.00- 120.00	100.00
4.291	4.291 (0.732)	84	345646			27.95- 87.95	55.73
4.291	4.291 (0.732)	51	189343			0.78- 60.78	30.53

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
62 tert-Butyl alcohol					CAS #: 75-65-0		
4.403	4.403 (0.752)	59	1026155	49.0170	49.017	80.00- 120.00	100.00
4.403	4.403 (0.752)	41	242858			0.00- 52.58	23.67
4.403	4.403 (0.752)	57	115552			0.00- 40.94	11.26
63 Methyl tert-butyl ether					CAS #: 1634-04-4		
4.515	4.515 (0.771)	73	1117576	48.9775	48.978	80.00- 120.00	100.00
4.515	4.515 (0.771)	57	335260			0.00- 58.27	30.00
4.515	4.515 (0.771)	41	346187			0.00- 58.78	30.98
64 trans-1,2-Dichloroethene					CAS #: 156-60-5		
4.543	4.543 (0.775)	98	262415	49.6461	49.646	80.00- 120.00	100.00
4.543	4.543 (0.775)	61	721783			236.85- 296.85	275.05
4.543	4.543 (0.775)	96	411638			126.72- 186.72	156.87
66 Acrylonitrile					CAS #: 107-13-1		
4.641	4.655 (0.792)	52	333325	47.6990	47.699	80.00- 120.00	100.00
4.641	4.655 (0.792)	53	399828			88.92- 148.92	119.95
67 Hexane					CAS #: 110-54-3		
4.753	4.753 (0.811)	57	801924	52.0781	52.078	80.00- 120.00	100.00
4.753	4.753 (0.811)	43	551876			36.74- 96.74	68.82
4.753	4.753 (0.811)	86	102634			0.00- 43.22	12.80
71 1,1-Dichloroethane					CAS #: 75-34-3		
5.033	5.046 (0.859)	63	805321	49.3630	49.363	80.00- 120.00	100.00
5.033	5.046 (0.859)	65	244184			0.56- 60.56	30.32
72 Isopropyl ether					CAS #: 108-20-3		
5.019	5.018 (0.857)	45	1797296	53.3377	53.338	80.00- 120.00	100.00
5.019	5.018 (0.857)	87	358030			0.00- 51.44	19.92
5.019	5.018 (0.857)	59	190010			0.00- 40.81	10.57
73 Vinyl Acetate					CAS #: 108-05-4		
5.075	5.088 (0.866)	86	102738	50.8312	50.831	80.00- 120.00	100.00
5.075	5.088 (0.866)	43	1534218			1473.01-1533.01	1493.33
79 Ethyl-tert-butyl ether					CAS #: 637-92-3		
5.382	5.382 (0.919)	59	1588343	51.7636	51.764	80.00- 120.00	100.00
5.382	5.382 (0.919)	87	527764			4.28- 64.28	33.23
5.382	5.382 (0.919)	41	334686			0.00- 49.94	21.07
84 2,2-Dichloropropane					CAS #: 594-20-7		
5.592	5.592 (0.955)	77	747260	48.4687	48.469	80.00- 120.00	100.00
5.592	5.592 (0.955)	79	242767			2.43- 62.43	32.49
5.592	5.592 (0.955)	97	175215			0.00- 53.03	23.45

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
85 cis-1,2-Dichloroethene					CAS #: 156-59-2		
5.620	5.634 (0.959)	98	277951	49.5904	49.590	80.00- 120.00	100.00
5.620	5.634 (0.959)	96	430326			121.91- 181.91	154.82
5.620	5.634 (0.959)	61	967510			313.72- 373.72	348.09
86 2-Butanone					CAS #: 78-93-3		
5.648	5.648 (0.964)	72	199594	48.6507	48.651	80.00- 120.00	100.00
5.648	5.648 (0.964)	43	2364166			1111.25-1171.25	1184.49
5.648	5.648 (0.964)	57	83858			11.22- 71.22	42.01
87 Ethyl Acetate					CAS #: 141-78-6		
5.648	5.662 (0.964)	45	191200	49.7450	49.745	80.00- 120.00	100.00
5.620	5.620 (0.959)	61	966796			469.17- 529.17	505.65
5.662	5.662 (0.967)	70	106027			29.38- 89.38	55.45
89 Tetrahydrofuran					CAS #: 109-99-9		
5.844	5.858 (0.998)	42	628261	50.3376	50.338	80.00- 120.00	100.00
5.844	5.858 (0.998)	71	180917			0.09- 60.09	28.80
5.844	5.858 (0.998)	72	188065			2.13- 62.13	29.93
92 Chloroform					CAS #: 67-66-3		
5.914	5.914 (1.010)	83	879148	48.8739	48.874	80.00- 120.00	100.00
5.914	5.914 (1.010)	85	571932			34.29- 94.29	65.06
94 Cyclohexane					CAS #: 110-82-7		
6.026	6.026 (1.029)	84	541248	49.1531	49.153	80.00- 120.00	100.00
6.026	6.026 (1.029)	56	838358			116.85- 176.85	154.89
6.026	6.026 (1.029)	41	490529			57.77- 117.77	90.63
96 1,1,1-Trichloroethane					CAS #: 71-55-6		
6.040	6.054 (1.031)	97	953890	48.8519	48.852	80.00- 120.00	100.00
6.040	6.054 (1.031)	99	605203			34.55- 94.55	63.45
97 Carbon Tetrachloride					CAS #: 56-23-5		
6.166	6.166 (1.053)	119	969137	50.7334	50.733	80.00- 120.00	100.00
6.166	6.166 (1.053)	117	1021154			74.20- 134.20	105.37
99 1,1-Dichloropropene					CAS #: 563-58-6		
6.194	6.194 (0.919)	110	231645	49.5858	49.586	80.00- 120.00	100.00
6.194	6.194 (0.919)	75	607828			229.39- 289.39	262.40
101 2,2,4-Trimethylpentane					CAS #: 540-84-1		
6.348	6.362 (1.084)	57	2550231	51.8261	51.826	80.00- 120.00	100.00
6.348	6.362 (1.084)	56	841729			1.14- 61.14	33.01
6.348	6.362 (1.084)	41	726964			0.00- 59.12	28.51

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
102 Benzene					CAS #: 71-43-2		
6.376	6.390 (0.946)	78	1190932	50.5367	50.537	80.00- 120.00	100.00
6.376	6.390 (0.946)	77	277715			0.00- 53.48	23.32
105 tert-Amyl methyl ether					CAS #: 994-05-8		
6.432	6.446 (0.954)	87	312774	51.0826	51.082	80.00- 120.00	100.00
6.432	6.446 (0.954)	73	1231100			363.80- 423.80	393.61
6.432	6.446 (0.954)	55	418948			97.13- 157.13	133.95
106 1,2-Dichloroethane					CAS #: 107-06-2		
6.460	6.474 (0.958)	62	689302	49.0757	49.076	80.00- 120.00	100.00
6.460	6.474 (0.958)	64	212856			1.41- 61.41	30.88
107 Heptane					CAS #: 142-82-5		
6.516	6.516 (0.966)	71	442076	48.2001	48.200	80.00- 120.00	100.00
6.516	6.516 (0.966)	43	1021532			146.45- 206.45	231.08
6.516	6.516 (0.966)	57	620091			90.20- 150.20	140.27
110 n-Butanol					CAS #: 71-36-3		
6.879	6.886 (1.020)	56	415228	51.0731	51.073	80.00- 120.00	100.00
6.879	6.886 (1.020)	41	318914			44.46- 104.46	76.80
6.879	6.886 (1.020)	43	245861			28.14- 88.14	59.21
111 Trichloroethene					CAS #: 79-01-6		
6.943	6.950 (1.030)	95	579373	50.2946	50.295	80.00- 120.00	100.00
6.943	6.950 (1.030)	130	618765			79.68- 139.68	106.80
6.943	6.950 (1.030)	97	371017			34.74- 94.74	64.04
114 1,2-Dichloropropane					CAS #: 78-87-5		
7.187	7.186 (1.066)	63	535016	50.7200	50.720	80.00- 120.00	100.00
7.187	7.186 (1.066)	62	378844			40.55- 100.55	70.81
7.187	7.186 (1.066)	41	378554			36.07- 96.07	70.76
116 Methyl Methacrylate					CAS #: 80-62-6		
7.223	7.229 (0.784)	69	445633	49.8613	49.861	80.00- 120.00	100.00
7.223	7.229 (0.784)	41	840251			160.67- 220.67	188.55
7.223	7.229 (0.784)	100	181514			11.33- 71.33	40.73
117 1,4-Dioxane					CAS #: 123-91-1		
7.266	7.272 (1.078)	88	290140	43.9313	43.931	80.00- 120.00	100.00
7.266	7.272 (1.078)	58	261696			56.19- 116.19	90.20
7.266	7.272 (1.078)	57	87652			0.00- 59.32	30.21
118 Dibromomethane					CAS #: 74-95-3		
7.294	7.301 (0.792)	174	527167	49.9422	49.942	80.00- 120.00	100.00
7.294	7.301 (0.792)	93	515788			66.88- 126.88	97.84

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
118 Dibromomethane (continued)							
7.294	7.301 (0.792)	95	430455			49.90- 109.90	81.65
122 Bromodichloromethane					CAS #: 75-27-4		
7.402	7.409 (1.098)	83	955112	49.5760	49.576	80.00- 120.00	100.00
7.402	7.409 (1.098)	85	617975			33.85- 93.85	64.70
126 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.781	7.781 (1.154)	75	748435	51.0166	51.016	80.00- 120.00	100.00
7.781	7.781 (1.154)	77	236568			1.50- 61.50	31.61
7.774	7.781 (1.153)	39	528927			43.12- 103.12	70.67
127 Methylcyclohexane					CAS #: 108-87-2		
7.051	7.058 (1.046)	83	732733	50.3938	50.394	80.00- 120.00	100.00
7.051	7.058 (1.046)	98	340681			17.10- 77.10	46.49
7.051	7.058 (1.046)	55	785788			71.11- 131.11	107.24
131 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.882	7.888 (1.169)	58	496351	48.5400	48.540	80.00- 120.00	100.00
7.882	7.888 (1.169)	43	1376502			247.84- 307.84	277.32
7.882	7.888 (1.169)	85	178444			8.73- 68.73	35.95
137 Toluene					CAS #: 108-88-3		
8.025	8.025 (1.190)	91	1610681	51.4367	51.437	80.00- 120.00	100.00
8.018	8.025 (1.189)	92	936983			28.13- 88.13	58.17
136 Octane					CAS #: 111-65-9		
8.003	8.010 (1.187)	57	557065	52.8917	52.892	80.00- 120.00	100.00
8.003	8.010 (1.187)	85	514349			67.77- 127.77	92.33
8.003	8.010 (1.187)	43	1443067			225.27- 285.27	259.05
139 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
8.254	8.254 (0.897)	75	732135	51.7767	51.777	80.00- 120.00	100.00
8.254	8.254 (0.897)	77	234116			1.93- 61.93	31.98
8.254	8.254 (0.897)	39	481899			38.37- 98.37	65.82
141 1,1,2-Trichloroethane					CAS #: 79-00-5		
8.412	8.419 (0.914)	97	555948	52.6828	52.683	80.00- 120.00	100.00
8.412	8.419 (0.914)	99	344342			31.66- 91.66	61.94
8.412	8.419 (0.914)	83	478928			55.24- 115.24	86.15
142 Tetrachloroethene					CAS #: 127-18-4		
8.455	8.462 (0.918)	166	803063	52.1807	52.181	80.00- 120.00	100.00
8.455	8.462 (0.918)	129	631310			48.51- 108.51	78.61
8.455	8.462 (0.918)	131	611248			45.64- 105.64	76.11

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
143 2-Hexanone					CAS #: 591-78-6		
8.569	8.576 (0.931)	58	676219	45.4699	45.470	80.00- 120.00	100.00
8.569	8.576 (0.931)	43	1354819			169.24- 229.24	200.35
8.576	8.576 (0.932)	100	121648			0.00- 48.72	17.99
144 1,3-Dichloropropane					CAS #: 142-28-9		
8.562	8.569 (1.270)	76	753393	48.6974	48.697	80.00- 120.00	100.00
8.562	8.569 (1.270)	41	917902			96.83- 156.83	121.84
8.562	8.569 (1.270)	78	243509			2.46- 62.46	32.32
146 Dibromochloromethane					CAS #: 124-48-1		
8.734	8.734 (0.949)	129	1126069	53.4824	53.482	80.00- 120.00	100.00
8.734	8.734 (0.949)	127	869488			47.05- 107.05	77.21
148 1,2-Dibromoethane (EDB)					CAS #: 106-93-4		
8.856	8.855 (0.962)	107	888609	51.6905	51.690	80.00- 120.00	100.00
8.856	8.855 (0.962)	109	836402			64.74- 124.74	94.12
151 1-Bromo-2-Chloroethane					CAS #: 107-04-0		
7.695	7.702 (1.141)	63	1018491	53.9051	53.905	80.00- 120.00	100.00
7.695	7.702 (1.141)	65	303216			0.05- 60.05	29.77
7.695	7.702 (1.141)	144	104993			0.00- 40.91	10.31
154 Chlorobenzene					CAS #: 108-90-7		
9.228	9.235 (1.002)	112	1335544	50.9432	50.943	80.00- 120.00	100.00
9.228	9.235 (1.002)	114	429457			2.19- 62.19	32.16
9.228	9.235 (1.002)	77	725559			23.66- 83.66	54.33
155 Ethyl Benzene					CAS #: 100-41-4		
9.271	9.278 (1.007)	106	682967	52.6038	52.604	80.00- 120.00	100.00
9.271	9.278 (1.007)	91	2124870			282.43- 342.43	311.12
156 Nonane					CAS #: 111-84-2		
9.271	9.278 (1.007)	43	1456703	55.6805	55.680	80.00- 120.00	100.00
9.271	9.278 (1.007)	57	1231833			55.73- 115.73	84.56
9.278	9.278 (1.008)	85	394475			0.00- 58.99	27.08
157 1,1,1,2-Tetrachloroethane					CAS #: 630-20-6		
9.293	9.300 (1.009)	131	658177	45.2543	45.254	80.00- 120.00	100.00
9.207	9.206 (1.000)	117	835766			38.22- 98.22	126.98
9.293	9.292 (1.009)	95	244797			7.54- 67.54	37.19
158 m,p-Xylene					CAS #: 108-38-3		
9.371	9.371 (1.018)	106	838011	52.5541	52.554	80.00- 120.00	100.00
9.371	9.371 (1.018)	91	1667193			169.66- 229.66	198.95

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
164 o-Xylene					CAS #: 95-47-6		
9.715	9.722 (1.055)	106	779854	51.5781	51.578	80.00- 120.00	100.00
9.715	9.722 (1.055)	91	1646552			180.55- 240.55	211.14
165 Styrene					CAS #: 100-42-5		
9.737	9.737 (1.058)	104	1333644	50.9365	50.936	80.00- 120.00	100.00
9.737	9.737 (1.058)	78	647870			18.65- 78.65	48.58
167 Bromoform					CAS #: 75-25-2		
9.945	9.944 (1.080)	173	1026391	51.3909	51.391	80.00- 120.00	100.00
9.945	9.944 (1.080)	171	526468			21.64- 81.64	51.29
168 Cumene					CAS #: 98-82-8		
10.002	10.009 (1.086)	105	2440840	50.8242	50.824	80.00- 120.00	100.00
10.009	10.009 (1.087)	120	666094			0.00- 57.04	27.29
10.002	10.009 (1.086)	51	306325			0.00- 41.95	12.55
169 Cyclohexanone					CAS #: 108-94-1		
10.181	10.188 (1.106)	55	737327	33.7969	33.797	80.00- 120.00	100.00(R)
10.181	10.188 (1.106)	98	269940			8.59- 68.59	36.61
10.181	10.181 (1.106)	42	556635			46.18- 106.18	75.49
175 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
10.317	10.317 (1.121)	83	1174674	50.1746	50.175	80.00- 120.00	100.00
10.317	10.317 (1.121)	85	751475			34.44- 94.44	63.97
177 Bromobenzene					CAS #: 108-86-1		
10.338	10.345 (1.123)	156	784982	51.4082	51.408	80.00- 120.00	100.00
10.338	10.345 (1.123)	158	761690			67.20- 127.20	97.03
10.338	10.345 (1.123)	77	1344280			131.36- 191.36	171.25
178 Propylbenzene					CAS #: 103-65-1		
10.353	10.360 (1.124)	120	699903	50.7688	50.769	80.00- 120.00	100.00
10.353	10.360 (1.124)	91	2961427	52.0129	52.013	385.23- 445.23	423.12
10.353	10.360 (1.124)	105	112483			0.00- 46.02	16.07
179 1,2,3-Trichloropropane					CAS #: 96-18-4		
10.381	10.381 (1.128)	110	382623	50.8154	50.815	80.00- 120.00	100.00
10.381	10.381 (1.128)	75	1378401			301.57- 361.57	360.25
10.381	10.381 (1.128)	61	340672			54.32- 114.32	89.04
181 trans-1,4-Dichloro-2-butene					CAS #: 110-57-6		
10.374	10.374 (1.127)	53	428474	71.4586	71.459	80.00- 120.00	100.00(R)
10.367	10.374 (1.126)	89	265946			40.38- 100.38	62.07
10.381	10.374 (1.128)	75	1378401			394.61- 454.61	321.70

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
182 Decane					CAS #: 124-18-5		
10.389	10.396 (1.128)	57	1585452	50.5622	50.562	80.00- 120.00	100.00
10.389	10.396 (1.128)	71	502305			2.98- 62.98	31.68
10.396	10.396 (1.129)	142	75127			0.00- 35.12	4.74
183 4-Ethyltoluene					CAS #: 622-96-8		
10.446	10.453 (1.135)	120	773955	51.9976	51.998	80.00- 120.00	100.00
10.446	10.453 (1.135)	105	2494474			295.29- 355.29	322.30
184 2-Chlorotoluene					CAS #: 95-49-8		
10.482	10.482 (1.138)	126	629207	50.8421	50.842	80.00- 120.00	100.00
10.475	10.482 (1.138)	91	2243976			325.01- 385.01	356.64
10.482	10.482 (1.138)	65	298891			19.90- 79.90	47.50
185 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
10.503	10.503 (1.141)	120	1043544	50.2593	50.259	80.00- 120.00	100.00
10.496	10.503 (1.140)	105	2129920			176.14- 236.14	204.10
188 alpha Methyl Styrene					CAS #: 98-83-9		
10.704	10.711 (1.163)	118	1072940	51.8677	51.868	80.00- 120.00	100.00
10.704	10.711 (1.163)	103	606505			26.69- 86.69	56.53
189 tert-Butylbenzene					CAS #: 98-06-6		
10.783	10.782 (1.171)	119	1954535	50.2604	50.260	80.00- 120.00	100.00
10.783	10.782 (1.171)	134	489931			0.00- 54.52	25.07
10.775	10.782 (1.170)	91	1285015			34.68- 94.68	65.75
190 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
10.833	10.832 (1.177)	105	2091362	51.8988	51.899	80.00- 120.00	100.00
10.833	10.832 (1.177)	120	999230			17.12- 77.12	47.78
192 sec-Butylbenzene					CAS #: 135-98-8		
10.969	10.969 (1.191)	134	631379	49.1586	49.158	80.00- 120.00	100.00
10.969	10.969 (1.191)	105	3006796			438.96- 498.96	476.23
10.969	10.969 (1.191)	91	481764			44.37- 104.37	76.30
194 p-Cymene					CAS #: 99-87-6		
11.076	11.083 (1.203)	119	2685639	50.7747	50.775	80.00- 120.00	100.00
11.076	11.083 (1.203)	134	713083			0.00- 56.91	26.55
11.076	11.083 (1.203)	91	629352			0.00- 53.86	23.43
195 1,3-Dichlorobenzene					CAS #: 541-73-1		
11.126	11.133 (1.208)	146	1448254	50.3987	50.399	80.00- 120.00	100.00
11.126	11.133 (1.208)	148	929782			33.78- 93.78	64.20
11.126	11.133 (1.208)	111	595606			11.40- 71.40	41.13

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
196 1,4-Dichlorobenzene					CAS #: 106-46-7		
11.212	11.212 (1.218)	146	1472131	50.2923	50.292	80.00- 120.00	100.00
11.212	11.212 (1.218)	148	934872			33.73- 93.73	63.50
11.205	11.212 (1.217)	111	574350			9.40- 69.40	39.01
199 alpha-Chlorotoluene					CAS #: 100-44-7		
11.327	11.327 (1.230)	91	2040397	51.1917	51.192	80.00- 120.00	100.00
11.327	11.327 (1.230)	126	453805			0.00- 52.58	22.24
201 Undecane					CAS #: 1120-21-4		
11.399	11.406 (1.238)	57	1828728	51.9079	51.908	80.00- 120.00	100.00
11.399	11.406 (1.238)	43	1709495			62.03- 122.03	93.48
202 Butylbenzene					CAS #: 104-51-8		
11.434	11.434 (1.242)	134	696864	49.2456	49.246	80.00- 120.00	100.00
11.434	11.434 (1.242)	91	2477727			322.91- 382.91	355.55
11.434	11.434 (1.242)	92	1295655			155.43- 215.43	185.93
204 1,2-Dichlorobenzene					CAS #: 95-50-1		
11.542	11.549 (1.254)	146	1380346	49.5897	49.590	80.00- 120.00	100.00
11.542	11.549 (1.254)	148	871858			33.66- 93.66	63.16
11.542	11.549 (1.254)	111	582574			12.36- 72.36	42.20
206 1,2-Dibromo-3-chloropropane					CAS #: 96-12-8		
12.251	12.258 (1.331)	157	787200	46.0001	46.000	80.00- 120.00	100.00
12.251	12.258 (1.331)	75	699918			56.77- 116.77	88.91
12.251	12.258 (1.331)	155	616687			48.17- 108.17	78.34
207 Dodecane					CAS #: 112-40-3		
12.351	12.358 (1.342)	57	1728338	54.9451	54.945	80.00- 120.00	100.00
12.351	12.358 (1.342)	43	1519061			56.62- 116.62	87.89
213 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
13.039	13.039 (1.416)	180	1176479	54.3540	54.354	80.00- 120.00	100.00
13.039	13.039 (1.416)	182	1124235			64.88- 124.88	95.56
215 Hexachlorobutadiene					CAS #: 87-68-3		
13.125	13.132 (1.426)	225	924739	59.1628	59.163	80.00- 120.00	100.00
13.125	13.132 (1.426)	223	583125			33.46- 93.46	63.06
216 Naphthalene					CAS #: 91-20-3		
13.340	13.340 (1.449)	128	283923	4.76077	4.761	80.00- 120.00	100.00
13.340	13.340 (1.449)	127	37030			0.00- 43.71	13.04
222 1,2,3-Trichlorobenzene					CAS #: 87-61-6		
13.612	13.612 (1.478)	180	1067162	53.0726	53.073	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
222 1,2,3-Trichlorobenzene (continued)							
13.612	13.612 (1.478)	182	1018702			66.23- 126.23	95.46
13.612	13.612 (1.478)	145	387602			5.93- 65.93	36.32

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd3.i
Lab File ID: 3090205.d
Lab Smp Id: LCS
Analysis Type: VOA
Quant Type: ISTD
Operator: LD
Method File: /chem/msd3.i/02SEP21.b/321q0812b.m
Misc Info: 50ppbv (200ppbv)

Calibration Date: 02-SEP-2021
Calibration Time: 11:00
Client Smp ID: LCS
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	195418	117251	273585	254322	30.14
108 1,4-Difluorobenze	668438	401063	935813	908573	35.92
153 Chlorobenzene-d5	630301	378181	882421	835766	32.60

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.86	5.53	6.19	5.86	0.00
108 1,4-Difluorobenze	6.75	6.42	7.08	6.74	-0.10
153 Chlorobenzene-d5	9.21	8.88	9.54	9.21	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

US32TAR1

RECOVERY REPORT

Client Name: Client SDG: 02SEP21
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: LCS Client Smp ID: LCS
Level: LOW Operator: LD
Data Type: MS DATA SampleType: LCS
SpikeList File: AT20_new.spk Quant Type: ISTD
Sublist File: AT20_new.sub
Method File: /chem/msd3.i/02SEP21.b/321q0812b.m
Misc Info: 50ppbv (200ppbv)

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
4 Freon 134a	50.000	50.214	100.43	70-130
5 Propylene	50.000	54.366	108.73	70-130
7 1,1-Difluoroethan	50.000	51.721	103.44	70-130
8 Freon 12	50.000	48.716	97.43	70-130
9 Chlorodifluoromet	50.000	40.717	81.43	70-130
10 Freon 114	50.000	48.199	96.40	70-130
12 Isobutane	50.000	54.410	108.82	70-130
15 Chloromethane	50.000	49.454	98.91	70-130
18 Butane	50.000	41.311	82.62	70-130
19 Vinyl Chloride	50.000	42.188	84.38	70-130
20 1,3-Butadiene	50.000	42.371	84.74	70-130
24 Bromomethane	50.000	46.557	93.11	70-130
30 Chloroethane	50.000	51.292	102.58	70-130
31 Isopentane	50.000	53.594	107.19	70-130
32 Vinyl Bromide	50.000	46.651	93.30	70-130
33 Freon 11	50.000	47.455	94.91	70-130
34 Dichlorofluoromet	50.000	49.997	99.99	70-130
35 Pentane	50.000	49.612	99.22	70-130
38 Ethyl Ether	50.000	50.096	100.19	70-130
39 Ethanol	58.000	46.451	80.09	70-130
42 Acrolein	58.000	55.984	96.53	70-130
43 Freon 113	50.000	47.959	95.92	70-130
44 1,1-Dichloroethen	50.000	48.900	97.80	70-130
47 Acetone	50.000	50.793	101.59	70-130
48 Carbon Disulfide	50.000	51.804	103.61	70-130
49 Iodomethane	50.000	56.475	112.95	70-130
52 2-Propanol	50.000	52.493	104.99	70-130
54 3-Chloropropene	50.000	48.189	96.38	70-130
57 Acetonitrile	50.000	52.660	105.32	70-130
59 Methylene Chlorid	50.000	52.492	104.98	70-130
62 tert-Butyl alcoho	50.000	49.017	98.03	70-130
63 Methyl tert-butyl	50.000	48.978	97.96	70-130
64 trans-1,2-Dichlor	50.000	49.646	99.29	70-130

	SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
66	Acrylonitrile	50.000	47.699	95.40	70-130
67	Hexane	50.000	52.078	104.16	70-130
71	1,1-Dichloroethan	50.000	49.363	98.73	70-130
72	Isopropyl ether	50.000	53.338	106.68	70-130
73	Vinyl Acetate	50.000	50.831	101.66	70-130
79	Ethyl-tert-butyl	50.000	51.764	103.53	70-130
84	2,2-Dichloropropa	50.000	48.469	96.94	70-130
85	cis-1,2-Dichloroe	50.000	49.590	99.18	70-130
86	2-Butanone	50.000	48.651	97.30	70-130
87	Ethyl Acetate	50.000	49.745	99.49	70-130
89	Tetrahydrofuran	50.000	50.338	100.68	70-130
92	Chloroform	50.000	48.874	97.75	70-130
94	Cyclohexane	50.000	49.153	98.31	70-130
96	1,1,1-Trichloroet	50.000	48.852	97.70	70-130
99	1,1-Dichloroprope	50.000	49.586	99.17	70-130
97	Carbon Tetrachlor	50.000	50.733	101.47	70-130
101	2,2,4-Trimethylpe	50.000	51.826	103.65	70-130
102	Benzene	50.000	50.537	101.07	70-130
105	tert-Amyl methyl	50.000	51.082	102.17	70-130
106	1,2-Dichloroethan	50.000	49.076	98.15	70-130
107	Heptane	50.000	48.200	96.40	70-130
110	n-Butanol	50.000	51.073	102.15	70-130
111	Trichloroethene	50.000	50.295	100.59	70-130
118	Dibromomethane	50.000	49.942	99.88	70-130
127	Methylcyclohexane	50.000	50.394	100.79	70-130
114	1,2-Dichloropropa	50.000	50.720	101.44	70-130
116	Methyl Methacryla	50.000	49.861	99.72	70-130
117	1,4-Dioxane	50.000	43.931	87.86	70-130
122	Bromodichlorometh	50.000	49.576	99.15	70-130
126	cis-1,3-Dichlorop	50.000	51.016	102.03	70-130
131	4-Methyl-2-pentan	50.000	48.540	97.08	70-130
136	Octane	50.000	52.892	105.78	70-130
137	Toluene	50.000	51.437	102.87	70-130
139	trans-1,3-Dichlor	50.000	51.777	103.55	70-130
141	1,1,2-Trichloroet	50.000	52.683	105.37	70-130
142	Tetrachloroethene	50.000	52.181	104.36	70-130
143	2-Hexanone	50.000	45.470	90.94	70-130
144	1,3-Dichloropropa	50.000	48.697	97.39	70-130
146	Dibromochlorometh	50.000	53.482	106.96	70-130
148	1,2-Dibromoethane	50.000	51.690	103.38	70-130
151	1-Bromo-2-Chloroe	50.000	53.905	107.81	70-130
154	Chlorobenzene	50.000	50.943	101.89	70-130
155	Ethyl Benzene	50.000	52.604	105.21	70-130
156	Nonane	50.000	55.680	111.36	70-130
157	1,1,1,2-Tetrachlo	50.000	45.254	90.51	70-130
158	m,p-Xylene	50.000	52.554	105.11	70-130
164	o-Xylene	50.000	51.578	103.16	70-130

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
165 Styrene	50.000	50.936	101.87	70-130
167 Bromoform	50.000	51.391	102.78	70-130
168 Cumene	50.000	50.824	101.65	70-130
169 Cyclohexanone	50.000	33.797	67.59*	70-130
175 1,1,2,2-Tetrachlo	50.000	50.175	100.35	70-130
177 Bromobenzene	50.000	51.408	102.82	70-130
178 Propylbenzene	50.000	50.769	101.54	70-130
179 1,2,3-Trichloropr	50.000	50.815	101.63	70-130
181 trans-1,4-Dichlor	50.000	71.459	142.92*	70-130
182 Decane	50.000	50.562	101.12	70-130
183 4-Ethyltoluene	50.000	51.998	104.00	70-130
184 2-Chlorotoluene	50.000	50.842	101.68	70-130
185 1,3,5-Trimethylbe	50.000	50.259	100.52	70-130
188 alpha Methyl Styr	50.000	51.868	103.74	70-130
189 tert-Butylbenzene	50.000	50.260	100.52	70-130
190 1,2,4-Trimethylbe	50.000	51.899	103.80	70-130
192 sec-Butylbenzene	50.000	49.158	98.32	70-130
194 p-Cymene	50.000	50.775	101.55	70-130
195 1,3-Dichlorobenze	50.000	50.399	100.80	70-130
196 1,4-Dichlorobenze	50.000	50.292	100.58	70-130
199 alpha-Chlorotolue	50.000	51.192	102.38	70-130
201 Undecane	50.000	51.908	103.82	70-130
202 Butylbenzene	50.000	49.246	98.49	70-130
204 1,2-Dichlorobenze	50.000	49.590	99.18	70-130
206 1,2-Dibromo-3-chl	50.000	46.000	92.00	70-130
207 Dodecane	50.000	54.945	109.89	70-130
213 1,2,4-Trichlorobe	58.000	54.354	93.71	70-130
215 Hexachlorobutadie	58.000	59.163	102.00	70-130
216 Naphthalene	5.800	4.761	82.08	60-140
222 1,2,3-Trichlorobe	58.000	53.073	91.50	70-130

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 104 1,2-Dichloroethan	25.000	24.131	96.52	70-130
$ 134 Toluene-d8	25.000	26.031	104.13	70-130
$ 170 4-Bromofluorobenz	25.000	25.158	100.63	70-130

Data File: /chem/msd3.i/02SEP21.b/3090205.d

Page 1

Date : 02-SEP-2021 11:28

Client ID: LCS

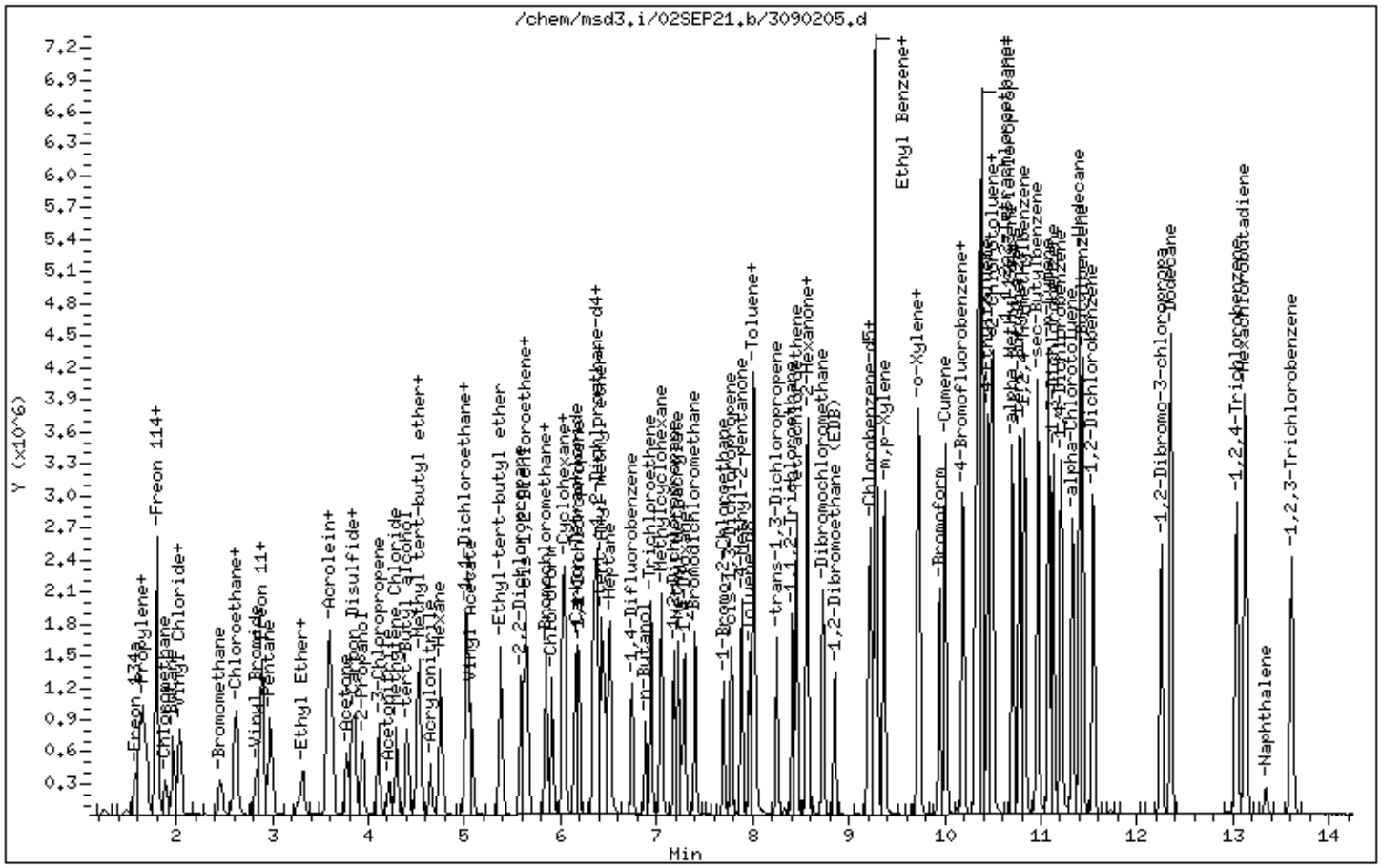
Instrument: msd3.i

Sample Info: 50mL 3018-2169

Operator: LD

Column phase: RTX-624

Column diameter: 0.25



MSD-3 MDL Case Narrative

A Method Detection Limit study for select TA TO-15 specials was performed on 05/03/21, 05/04/24, and 05/05/21.

The MDL was performed at:

- 0.4ppbv(5.0ppbv->0.4ppbv) for 1,1,1,2-tetrachloroethane;16ml of #3018-1908

MDL verification was analyzed on 06/03/21:

- 3060308: (for 1,1,1,2-tetrachloroethane only). 5.0ppbv->0.25ppbv. 10ml of #3018-2078

No MDL values were taken from the MDL blank.

MDL expires 5/05/22

03MAY21: 1112PCE-mdl.rp

TO15Quad MDL/MSD

1,1,1,2-Tetrachloroethane only

Standard 3018-1908 (5.0ppbv)
16mL load volume

Spike concentration
0.4ppbv

Report Date : 03-Jun-2021 08:29

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/03MAY21.b/321q0317a.m
Batch File: /chem/msd3.i/03MAY21.b
Inst ID: msd3.i

ID:	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09
FILENAME:	3050309	3050310	3050311	3050409	3050410	3050411	3050509	3050510	3050511
INJ.DATE:	03-MAY-2021	03-MAY-2021	03-MAY-2021	04-MAY-2021	04-MAY-2021	04-MAY-2021	05-MAY-2021	05-MAY-2021	05-MAY-2021
INJ.TIME:	13:57	14:24	14:52	15:10	15:38	16:05	14:25	14:53	15:21

PPTV

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
1 Dimethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
2 1,1-Dichloro-1-Fluoroe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
3 Freon 143a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
4 Freon 134a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
5 Propylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
6 Propane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
7 1,1-Difluoroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
8 Freon 12	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
9 Chlorodifluoromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
10 Freon 114	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
11 Freon 14	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
12 Isobutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
13 Freon 142b	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
14 Acetaldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
15 Chloromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
16 Hexafluoropropene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
17 Freon 13	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Reviewer 1 _____ Date: 6/3/21
Reviewer 2 _____ Date: 6/7/21

$\bar{X}$ = 73.89
$2\bar{X}$ = 147.78
$3\bar{X}$ = 221.67
$4\bar{X}$ = 295.56

MDL verification
standard # 3018-2078 (5ppbv)
10 mL volume File# 3060309
spike concentration
0.25ppbv

The ratio of the mean recovered concentration & the MDL is between 1-20.

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/03MAY21.b/321q0317a.m
Batch File: /chem/msd3.i/03MAY21.b
Inst ID: msd3.i

PPTV RL

MDL Blank

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
135 1-Methoxy-2-propanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
136 Octane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
137 Toluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
138 1-Heptene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
139 trans-1,3-Dichloroprop	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
140 2,3-Dichloro-1-propene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
141 1,1,2-Trichloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
142 Tetrachloroethene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
143 2-Hexanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
144 1,3-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
145 Butyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
146 Dibromochloromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
147 Bromodichloroethene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
148 1,2-Dibromoethane (EDB	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
149 2-Methylheptane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
150 3-Methylheptane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
151 1-Bromo-2-Chloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
152 Diethyl Ketone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
* 153 Chlorobenzene-d5	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	0.00	0.00
154 Chlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
155 Ethyl Benzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
156 Nonane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
157 1,1,1,2-Tetrachloroeth	526.98	516.97	486.41	540.40	522.14	530.23	475.21	539.09	553.76	521.24	25.52	73.89
158 m,p-Xylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

400/500/2000

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METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/03MAY21.b/321q0317a.m
Batch File: /chem/msd3.i/03MAY21.b
Inst ID: msd3.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
18 Butane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
19 Vinyl Chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
20 1,3-Butadiene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
21 Vinyl Fluoride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
22 Ethylene Oxide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
23 Methanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
24 Bromomethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
25 Isobutylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
26 2-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
27 trans-2-butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
28 1-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
29 cis-2-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
30 Chloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
31 Isopentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
32 Vinyl Bromide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
33 Freon 11	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
34 Dichlorofluoromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
35 Pentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
36 1-Pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
37 3-Methyl-1-butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
38 Ethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
39 Ethanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/03MAY21.b/321q0317a.m
Batch File: /chem/msd3.i/03MAY21.b
Inst ID: msd3.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
40 Freon 123a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
41 Freon 123	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
42 Acrolein	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
43 Freon 113	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
44 1,1-Dichloroethene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
45 2-Chloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
46 2,3-Dimethylbutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
47 Acetone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
48 Carbon Disulfide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
49 Iodomethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
50 Isoprene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
51 2-Methyl-2-butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
52 2-Propanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
53 trans-2-Pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
54 3-Chloropropene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
55 Cyclopentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
56 Methyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
57 Acetonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
58 cis-2-Pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
59 Methylene Chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
60 Cyclopentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
61 1,2-Dichloro-1-fluoroe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
62 tert-Butyl alcohol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
63 Methyl tert-butyl ethe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/03MAY21.b/321q0317a.m
Batch File: /chem/msd3.i/03MAY21.b
Inst ID: msd3.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
64 trans-1,2-Dichloroethe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
65 2,2-Dimethylbutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
66 Acrylonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
67 Hexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
68 1-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
69 Bromoethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
70 4-Methyl-1-pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
71 1,1-Dichloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
72 Isopropyl ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
73 Vinyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
74 Chloroprene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
75 1-Propanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
76 2-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
77 3-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
78 1-Chloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
79 Ethyl-tert-butyl ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
80 2-Methyl-1-pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
81 2,4-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
82 2,3-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
83 tert-Butyl chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
84 2,2-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
85 cis-1,2-Dichloroethene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
86 2-Butanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/03MAY21.b/321q0317a.m
Batch File: /chem/msd3.i/03MAY21.b
Inst ID: msd3.i

	Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
	87 Ethyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	88 Methyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	89 Tetrahydrofuran	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
*	90 Bromochloromethane	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	0.00	0.00
	91 trans-2-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	92 Chloroform	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	93 cis-2-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	94 Cyclohexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	95 Methylcyclopentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	96 1,1,1-Trichloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	97 Carbon Tetrachloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	98 sec-Butyl chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	99 1,1-Dichloropropene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	100 2,3,4-Trimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	101 2,2,4-Trimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	102 Benzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	103 Isobutanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
$	104 1,2-Dichloroethane-d4	24697.90	24426.87	25043.25	25132.82	24889.42	25163.20	24848.38	25046.03	25137.35	24931.69	244.97	709.44
	105 tert-Amyl methyl ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	106 1,2-Dichloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	107 Heptane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
*	108 1,4-Difluorobenzene	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	0.00	0.00
	109 Butanal	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	110 n-Butanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/03MAY21.b/321q0317a.m
Batch File: /chem/msd3.i/03MAY21.b
Inst ID: msd3.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
111 Trichloroethene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
112 Isobutyl chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
113 Ethyl acrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
114 1,2-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
115 2-Pentanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
116 Methyl Methacrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
117 1,4-Dioxane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
118 Dibromomethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
119 Methacrylonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
120 2-Chloropentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
121 2-Butanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
122 Bromodichloromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
123 1-Bromopropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
124 Chloroacetonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
125 n-Butylchloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
126 cis-1,3-Dichloropropen	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
127 Methylcyclohexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
128 Thiophene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
129 2-Methylhexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
130 3-Methylhexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
131 4-Methyl-2-pentanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
132 Cyclohexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
$ 133 Benzene-d6	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
$ 134 Toluene-d8	24676.03	24895.10	24771.68	24765.70	24403.43	24714.67	24398.32	24695.85	24589.38	24656.69	166.82	483.12

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METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/03MAY21.b/321q0317a.m
Batch File: /chem/msd3.i/03MAY21.b
Inst ID: msd3.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
159 2-Nitropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
160 bis(chloromethyl) Ethe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
161 1-Octene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
162 Epichlorohydrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
163 2-Chloroethyl Vinyl Et	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
164 o-Xylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
165 Styrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
166 2-Heptanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
167 Bromoform	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
168 Cumene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
169 Cyclohexanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
$ 170 4-Bromofluorobenzene	26453.98	26346.98	26114.19	26233.78	26044.32	26017.80	26203.48	25748.42	26019.91	26131.43	208.00	602.36
171 Vinyl Cyclohexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
172 D-Limonene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
173 Ethyl Methacrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
174 1-Chloro-2-Bromopropan	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
175 1,1,2,2-Tetrachloroeth	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
176 1-Nitropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
177 Bromobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
178 Propylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
179 1,2,3-Trichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
180 Bromodichloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
181 trans-1,4-Dichloro-2-b	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
182 Decane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/03MAY21.b/321q0317a.m
Batch File: /chem/msd3.i/03MAY21.b
Inst ID: msd3.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
183 4-Ethyltoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
184 2-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
185 1,3,5-Trimethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
186 4-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
187 Diisobutyl Ketone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
188 alpha Methyl Styrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
189 tert-Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
190 1,2,4-Trimethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
191 Pentachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
192 sec-Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
193 bis(2-Chloroethyl) Eth	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
194 p-Cymene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
195 1,3-Dichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
196 1,4-Dichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
197 1,2,3-Trimethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
198 1-Nonene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
199 alpha-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
200 1-Chlorohexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
201 Undecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
202 Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
203 Butyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
204 1,2-Dichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
205 Hexachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/03MAY21.b/321q0317a.m
Batch File: /chem/msd3.i/03MAY21.b
Inst ID: msd3.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
206 1,2-Dibromo-3-chloropr	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
207 Dodecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
208 1,3,5-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
209 1-Decene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
210 alpha-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
211 1,4-Dichloro-2-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
212 3-Ethyltoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
213 1,2,4-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
214 beta-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
215 Hexachlorobutadiene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
216 Naphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
217 Limonene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
218 Benzaldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
219 Indan	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
220 Indene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
221 Isobutylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
222 1,2,3-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
223 2-Ethyltoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
224 1-Undecene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
225 4-Ethyl-1,2-dimethylbe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
226 1,3-Diethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
227 1,4-Diethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
228 1,2,4,5-tetramethylben	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
229 1-Dodecene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/03MAY21.b/321q0317a.m
Batch File: /chem/msd3.i/03MAY21.b
Inst ID: msd3.i

	Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
	230 Nitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	231 Tridecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	232 2-Methylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	233 1,3,5-Triethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M	234 1,2-Dichloroethene (To	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M	235 Chlorobutane (Total)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M	236 Total Xylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M	237 3 and 4-Ethyltoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	238 Total Volatile Hydroca	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	239 TPH reference to Hexan	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	240 TPH reference to Hepta	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	241 TPH reference to Gasol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	242 TPH reference MineralS	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	243 TPH reference to Stodd	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	244 TVOC reference to Hexa	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	245 TVOC reference to Hept	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	246 TVOC reference to Tolu	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	247 TVOC reference to Tolu	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	248 NMOC reference to Hexa	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	249 NMOC reference to Hept	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	250 NMOC reference to Tolu	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	251 C3 - C4 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	252 C4 - C5 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	253 C5 - C6 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/03MAY21.b/321q0317a.m
Batch File: /chem/msd3.i/03MAY21.b
Inst ID: msd3.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
254 C6 - C7 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
255 C7 - C8 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
256 C8 - C9 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
257 C9 - C10 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
258 C10+ Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
259 C5 - C6 Aliphatic ref	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
260 C6-C8 Aliphatic ref He	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
261 C8-C10 Aliphatic ref D	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
262 C10-C12 Aliphatic ref	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
263 C8-C10 Aromatic	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
264 C8-C10 Aromatic ref 1,	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
265 C10-C12 Aromatic	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
266 C10-C12 Aromatic 1,2,	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
267 C10-C12 Aromatic Naph	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

03MAY21: EPALB1112PCE_mdl.rp

MSD3 Blank 1,1,1,2 PCE MDL
can # 35157

Report Date : 04-JUN-2021 10:42 Page 1

US32TAR1

SPIKED METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/05MAY21.b/321q0317a.m
Batch File: /chem/msd3.i/05MAY21.b
Instrument Names: msd3.i
Student T 2.896 for 9 Replicates with 99% Confidence

	Spiked ID(s)	Spiked Vol(s)

ID:	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	
FILENAME:	3050306LB1112PCE	3050307LB1112PCE	3050308LB1112PCE	3050406LB1112PCE	3050407LB1112PCE	3050408LB1112PCE	3050506LB1112PCE	3050507LB1112PCE	3050508LE	
INJ.DATE:	03-MAY-2021	03-MAY-2021	03-MAY-2021	04-MAY-2021	04-MAY-2021	04-MAY-2021	05-MAY-2021	05-MAY-2021	05-MAY-2021	
INJ.TIME:	11:47	13:00	13:29	13:28	14:13	14:42	12:40	13:28	13:58	

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	SPK AMT	RL	RATIO	MDL
* 1 Bromochloromethane	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	0.000000	0.000000	2.00	1.00	0.000000
$ 2 1,2-Dichloroethane-d4	23867.00	23965.00	25269.00	24324.00	25031.00	24883.00	24739.00	25158.00	25187.00	24713.67	534.92	0.000000	2.00	15.95	1549.11
* 3 1,4-Difluorobenzene	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	0.000000	0.000000	2.00	1.00	0.000000
$ 4 Toluene-d8	24542.00	24548.00	25114.00	24548.00	24850.00	24479.00	24603.00	25251.00	25182.00	24790.78	313.26	0.000000	2.00	27.33	907.21
* 5 Chlorobenzene-d5	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	0.000000	0.000000	2.00	1.00	0.000000
6 1,1,1,2-Tetrachloroethane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000
$ 7 4-Bromofluorobenzene	25896.00	25913.00	25873.00	25941.00	26040.00	26188.00	26321.00	25639.00	25907.00	25968.67	196.25	0.000000	2.00	45.69	568.34

Reviewer 1 _____ Date: 6/4/21
Reviewer 2 _____ Date: 6/7/21

MSD-3 MDL Case Narrative

A Method Detection Limit Study for TO-15 method was performed on 05/03/21, 05/04/24, and 05/05/21, 06/01/21, 06/02/22, 06/03/21, 06/04/21, 06/07/21 and 06/08/21.

The MDL spikes were performed at:

- 0.3 ppbv (5.0ppbv->0.3ppbv); spike load of 12mL of standard #3018-2045
- 0.4 ppbv (5.0ppbv->0.4ppbv); spike load of 16mL of standard #3018-2045
- 0.8 ppbv (5.0ppbv->0.8ppbv); spike load of 32ml of standard #3018-2045 and #3018-1973
- 2.0 ppbv (5.0ppbv->2.0ppbv); spike load of 80ml of standard #3018-2045 and #3018-1973

The MDL verifications were analyzed on 6/15/21:

- 3061507: (0.3ppbv spike compounds). 5.0ppbv->0.25ppbv; spike load of 10ml of standard #3018-1973
- 3061508: (0.4ppbv spike compounds). 5.0ppbv->0.30ppbv; spike load of 12ml of standard #3018-1973
- 3061509: (0.8ppbv RL compounds). 5.0ppbv->0.50ppbv; spike load of 20ml of standard #3018-1973
- 3061510: (2.0 ppbv RL compounds). 5.0ppbv->1.25ppbv; spike load of 50ml of standard #3018-1973
- 3061510a (Naph only). 5.0ppbv->0.125ppbv; spike load of 50ml of standard #3018-1973

Notes:

1) **The MDL values for the following compounds were taken from the MDL blank:**
   - Toluene (0.12097ppbv)
   - Tetrachloroethane (0.08847ppbv)
   - m-p-Xylene (0.27315ppbv)
   - o-Xylene (0.13368ppbv)
   - 4-Ethyltoluene (0.12694ppbv)
   - 1,3,5-Trimethylbenzene (0.07763ppbv)
   - 1,2,4-Trimethylbenzene (0.18507ppbv)
   - Acetone (0.35944ppbv)
   - Carbon Disulfide (0.46909ppbv)

2) Dodecane mean recovered concentration and MDL ratio <1.

3) MDL verification for Naphthalene was less than 2-4X the MDL value.

4) The concentrations for Dodecane, 1,2,4-TCB, Hexachlorobutadiene, 1,2,3-TCB, and Naphthalene were adjusted in the MDL spikes due to the certified concentration exceeding more than 15% of the nominal concentration.

MDL expires 6/08/22

01JUN21.0.4ppbv-mdl.rp

MSD-3 TO15 Quad MDL

Standard 3018-2045

16 mL load volume

Spike concentration

0.4ppbv

Report Date : 04-Jun-2021 15:53

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/01JUN21.b/321q0317a.m
Batch File: /chem/msd3.i/01JUN21.b
Inst ID: msd3.i

ID:	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09
FILENAME:	3060109	3060110	3060111	3060209	3060210	3060211	3060312	3060313	3060314
INJ.DATE:	01-JUN-2021	01-JUN-2021	01-JUN-2021	02-JUN-2021	02-JUN-2021	02-JUN-2021	03-JUN-2021	03-JUN-2021	03-JUN-2021
INJ.TIME:	14:01	14:29	14:56	14:10	14:38	15:05	16:50	17:18	17:45

PPTV RL SPRL

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL	
1 Dimethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
2 1,1-Dichloro-1-Fluoroe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
3 Freon 143a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
4 Freon 134a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
5 Propylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
6 Propane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
7 1,1-Difluoroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
8 Freon 12	454.29	450.99	459.72	449.89	450.96	521.90	520.12	437.40	476.88	469.13	31.20	90.37	500 400
9 Chlorodifluoromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
10 Freon 114	470.39	474.93	474.26	523.77	487.91	489.27	456.20	442.84	499.62	479.91	23.84	69.05	500 400
11 Freon 14	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
12 Isobutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
13 Freon 142b	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
14 Acetaldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
15 Chloromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
16 Hexafluoropropene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
17 Freon 13	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	

Reviewer 1 _____ Date: 6/16/21
Reviewer 2 _____ Date: 6/16/21

Ratio of the mean recovered concentration and MDL value is between 1-20.

$\bar{X} = 90.78$
$2\bar{X} = 181.56$
$3\bar{X} = 272.34$
$4\bar{X} = 363.12$

MDL verification
Standard # 3018-1973 (5.0ppbv)
12 mL volume file # 3061508
spike concentration 0.300bv

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/01JUN21.b/321q0317a.m
Batch File: /chem/msd3.i/01JUN21.b
Inst ID: msd3.i

PQTV RL SPRL

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
18 Butane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
19 Vinyl Chloride	520.09	567.60	562.12	528.99	641.59	506.36	653.03	614.57	703.97	588.70	68.09	197.20
20 1,3-Butadiene	538.14	632.50	627.40	629.38	532.48	659.05	526.06	637.99	669.42	605.83	56.97	164.99
21 Vinyl Fluoride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
22 Ethylene Oxide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
23 Methanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
24 Bromomethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
25 Isobutylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
26 2-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
27 trans-2-butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
28 1-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
29 cis-2-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
30 Chloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
31 Isopentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
32 Vinyl Bromide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
33 Freon 11	467.18	475.49	444.90	493.51	456.60	484.61	495.38	482.36	507.43	478.61	19.83	57.42
34 Dichlorofluoromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
35 Pentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
36 1-Pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
37 3-Methyl-1-butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
38 Ethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
39 Ethanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

500 400
500 400
500 400

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/01JUN21.b/321q0317a.m
Batch File: /chem/msd3.i/01JUN21.b
Inst ID: msd3.i

PPTV RL SpRL

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL	
40 Freon 123a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
41 Freon 123	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
42 Acrolein	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	400
43 Freon 113	490.98	485.04	500.15	532.82	449.70	514.81	533.10	480.82	478.98	496.27	27.18	78.72	500
44 1,1-Dichloroethene	471.23	417.05	403.58	502.55	401.29	415.87	413.26	466.25	453.20	438.25	36.01	104.27	500 800
45 2-Chloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
46 2,3-Dimethylbutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
47 Acetone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
48 Carbon Disulfide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
49 Iodomethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
50 Isoprene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
51 2-Methyl-2-butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
52 2-Propanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
53 trans-2-Pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
54 3-Chloropropene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
55 Cyclopentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
56 Methyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
57 Acetonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
58 cis-2-Pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
59 Methylene Chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
60 Cyclopentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
61 1,2-Dichloro-1-fluoroe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
62 tert-Butyl alcohol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
63 Methyl tert-butyl ethe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/01JUN21.b/321q0317a.m
Batch File: /chem/msd3.i/01JUN21.b
Inst ID: msd3.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL	PPTV RL	SPRL
64 trans-1,2-Dichloroethe	434.58	437.36	418.44	594.77	392.87	379.26	366.41	352.78	407.49	420.44	71.59	207.33	500	400
65 2,2-Dimethylbutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
66 Acrylonitrile	460.96	500.76	523.53	501.36	329.25	401.49	385.40	412.03	485.66	444.49	65.47	189.59	2000	500
67 Hexane	397.44	390.85	381.15	396.45	393.83	395.15	352.61	358.99	301.22	374.19	32.03	92.77	500	800
68 1-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
69 Bromoethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
70 4-Methyl-1-pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
71 1,1-Dichloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
72 Isopropyl ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
73 Vinyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
74 Chloroprene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
75 1-Propanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
76 2-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
77 3-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
78 1-Chloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
79 Ethyl-tert-butyl ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
80 2-Methyl-1-pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
81 2,4-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
82 2,3-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
83 tert-Butyl chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
84 2,2-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
85 cis-1,2-Dichloroethene	406.23	339.12	394.79	410.43	459.76	386.12	407.07	400.11	391.34	399.44	31.16	90.23	500	400
86 2-Butanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/01JUN21.b/321q0317a.m
Batch File: /chem/msd3.i/01JUN21.b
Inst ID: msd3.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL	PPTV RL	SPRL
87 Ethyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
88 Methyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
89 Tetrahydrofuran	392.28	308.18	375.81	351.30	382.02	278.79	368.88	354.69	374.96	354.10	37.34	108.12	500	800
* 90 Bromochloromethane	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	0.00	0.00		
91 trans-2-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
92 Chloroform	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
93 cis-2-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
94 Cyclohexane	421.16	433.62	432.47	402.30	353.96	357.57	385.82	409.64	331.39	391.99	37.05	107.30	500	400
95 Methylcyclopentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
96 1,1,1-Trichloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
97 Carbon Tetrachloride	441.86	416.57	401.45	496.61	437.54	450.66	466.79	463.29	457.40	448.02	28.17	81.57	500	800
98 sec-Butyl chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
99 1,1-Dichloropropene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
100 2,3,4-Trimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
101 2,2,4-Trimethylpentane	366.02	354.98	374.91	364.34	345.24	369.91	351.32	336.42	342.33	356.16	13.37	38.72	500	400
102 Benzene	384.25	373.46	379.77	375.64	382.39	357.76	403.13	391.89	370.25	379.84	13.00	37.64	500	400
103 Isobutanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
$ 104 1,2-Dichloroethane-d4	26012.80	24530.93	25455.22	26543.26	27108.49	26931.37	27307.04	27270.32	27019.49	26464.32	953.12	2760.23		
105 tert-Amyl methyl ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
106 1,2-Dichloroethane	446.36	440.55	473.99	465.84	483.48	500.97	507.75	551.39	507.50	486.43	34.69	100.46	500	800
107 Heptane	324.96	372.59	369.77	307.08	314.82	300.27	322.25	312.99	378.20	333.66	30.85	89.34	500	800
* 108 1,4-Difluorobenzene	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	0.00	0.00		
109 Butanal	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
110 n-Butanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/01JUN21.b/321q0317a.m
Batch File: /chem/msd3.i/01JUN21.b
Inst ID: msd3.i

PPTV RL SPRL MDL Blank

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL			
111 Trichloroethene	432.98	412.78	434.49	426.79	398.78	467.28	457.60	449.98	423.39	433.78	21.72	62.91	500	400	
112 Isobutyl chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
113 Ethyl acrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
114 1,2-Dichloropropane	424.16	543.68	543.45	628.55	524.98	560.69	610.59	571.80	548.48	550.71	58.07	168.16	500	400	
115 2-Pentanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
116 Methyl Methacrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
117 1,4-Dioxane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
118 Dibromomethane	446.54	507.68	505.31	536.64	539.78	466.69	488.20	467.21	461.00	491.00	33.52	97.07	2000	400	80.81
119 Methacrylonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
120 2-Chloropentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
121 2-Butanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
122 Bromodichloromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
123 1-Bromopropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
124 Chloroacetonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
125 n-Butylchloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
126 cis-1,3-Dichloropropen	390.26	427.63	436.33	364.46	404.43	422.02	431.56	402.29	441.35	413.37	25.12	72.75	500	400	
127 Methylcyclohexane	417.04	384.70	372.53	399.47	414.30	328.78	407.36	381.08	343.60	383.21	30.84	89.33	2000	400	
128 Thiophene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
129 2-Methylhexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
130 3-Methylhexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
131 4-Methyl-2-pentanone	413.22	394.54	380.31	389.13	424.63	366.34	345.26	397.08	356.29	385.20	25.97	75.20	500	400	
132 Cyclohexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
$ 133 Benzene-d6	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
$ 134 Toluene-d8	24812.98	25037.79	24745.78	24544.93	25002.36	24499.33	25124.77	25292.63	25011.02	24896.84	265.60	769.17			

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/01JUN21.b/321q0317a.m
Batch File: /chem/msd3.i/01JUN21.b
Inst ID: msd3.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
135 1-Methoxy-2-propanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
136 Octane	377.73	417.60	441.05	395.95	398.25	394.68	417.99	394.54	399.15	404.11	18.51	53.61
137 Toluene	429.11	406.62	421.60	411.51	455.86	399.72	402.79	379.76	426.55	414.84	21.66	62.72
138 1-Heptene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
139 trans-1,3-Dichloroprop	396.13	376.83	443.62	416.16	438.65	440.75	424.09	396.52	433.45	418.47	23.75	68.78
140 2,3-Dichloro-1-propene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
141 1,1,2-Trichloroethane	407.47	393.54	461.94	440.32	433.21	437.85	458.30	451.48	414.88	433.22	23.54	68.17
142 Tetrachloroethene	477.52	458.32	462.79	462.43	455.71	485.11	442.27	451.47	408.16	455.97	22.08	63.95
143 2-Hexanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
144 1,3-Dichloropropane	458.56	380.29	433.12	408.65	450.25	410.65	424.12	460.15	431.47	428.58	26.14	75.69
145 Butyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
146 Dibromochloromethane	440.26	428.71	428.43	472.03	460.96	428.50	419.84	468.80	486.20	448.19	24.04	69.63
147 Bromodichloroethene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
148 1,2-Dibromoethane (EDB	417.98	426.05	414.82	421.18	435.58	444.67	448.51	411.32	408.04	425.35	14.55	42.14
149 2-Methylheptane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
150 3-Methylheptane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
151 1-Bromo-2-Chloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
152 Diethyl Ketone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
* 153 Chlorobenzene-d5	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	0.00	0.00
154 Chlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
155 Ethyl Benzene	364.58	412.70	432.65	359.94	359.32	405.37	382.39	428.89	405.19	394.56	28.89	83.66
156 Nonane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
157 1,1,1,2-Tetrachloroeth	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
158 m,p-Xylene	375.42	350.56	433.73	402.14	412.55	398.21	362.11	362.61	368.10	385.05	27.82	80.56

PPTV RL | SPRL | MDL Blank

2000 | 400
500 | 400 | 120.97
500 | 400
500 | 400 | 88.4
500 | 400
2000 | 500
500 | 400
500 | 800
800 | 400
500 | 800 | 273.15

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/01JUN21.b/321q0317a.m
Batch File: /chem/msd3.i/01JUN21.b
Inst ID: msd3.i

PDTV RL SPRL MDL Blank

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL			
159 2-Nitropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
160 bis(chloromethyl) Ethe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
161 1-Octene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
162 Epichlorohydrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
163 2-Chloroethyl Vinyl Et	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
164 o-Xylene	360.39	357.64	385.95	366.63	386.16	380.27	370.40	340.52	352.46	366.71	15.64	45.30	500	400	133.6
165 Styrene	364.41	347.64	373.59	377.48	380.05	357.02	333.96	350.60	321.00	356.20	20.09	58.19	500	400	
166 2-Heptanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
167 Bromoform	426.94	444.59	437.91	458.93	427.02	434.01	459.30	458.58	464.41	445.74	14.90	43.14	500	400	
168 Cumene	378.24	397.47	397.21	383.06	374.09	375.05	349.86	337.74	344.12	370.76	22.04	63.84	500	800	
169 Cyclohexanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
$ 170 4-Bromofluorobenzene	26228.51	26286.57	26715.37	26196.73	26575.59	26324.98	26555.74	26222.00	26548.37	26405.98	192.72	558.13			
171 Vinyl Cyclohexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
172 D-Limonene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
173 Ethyl Methacrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
174 1-Chloro-2-Bromopropan	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
175 1,1,2,2-Tetrachloroeth	411.22	443.64	429.40	426.37	424.84	397.72	422.71	437.17	422.96	424.00	13.47	39.00	500	400	
176 1-Nitropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
177 Bromobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
178 Propylbenzene	415.18	403.90	410.25	417.37	402.47	409.14	387.22	403.40	417.91	407.43	9.63	27.88	500	400	
179 1,2,3-Trichloropropane	353.67	411.55	459.65	457.83	494.33	423.20	519.48	502.45	418.17	448.93	52.65	152.48	2000	400	
180 Bromodichloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
181 trans-1,4-Dichloro-2-b	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
182 Decane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/01JUN21.b/321q0317a.m
Batch File: /chem/msd3.i/01JUN21.b
Inst ID: msd3.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
183 4-Ethyltoluene	416.23	451.66	409.49	400.58	423.84	452.96	393.29	403.12	379.99	414.57	24.85	71.96
184 2-Chlorotoluene	399.81	443.34	404.82	459.95	412.16	455.86	417.43	432.16	434.47	428.89	21.74	62.95
185 1,3,5-Trimethylbenzene	386.43	396.74	425.00	409.73	396.70	401.73	440.80	357.16	387.96	400.25	23.91	69.24
186 4-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
187 Diisobutyl Ketone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
188 alpha Methyl Styrene	368.66	361.27	347.68	364.57	378.24	362.63	327.92	352.95	373.95	359.76	15.26	44.18
189 tert-Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
190 1,2,4-Trimethylbenzene	371.01	404.88	382.39	386.33	381.42	368.31	349.08	354.63	367.82	373.98	16.98	49.18
191 Pentachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
192 sec-Butylbenzene	374.76	355.04	391.28	426.93	393.20	338.76	390.14	364.61	386.77	380.17	25.60	74.12
193 bis(2-Chloroethyl) Eth	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
194 p-Cymene	395.01	369.71	354.29	381.01	387.47	358.95	362.91	369.07	330.28	367.63	19.36	56.08
195 1,3-Dichlorobenzene	420.15	448.97	452.39	479.41	459.18	441.28	450.12	496.82	465.52	457.09	22.09	63.97
196 1,4-Dichlorobenzene	436.69	444.02	449.75	444.21	448.35	427.96	448.94	422.21	457.05	442.13	11.18	32.39
197 1,2,3-Trimethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
198 1-Nonene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
199 alpha-Chlorotoluene	387.37	418.08	392.75	402.39	415.91	404.49	414.03	404.91	376.73	401.85	13.92	40.31
200 1-Chlorohexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
201 Undecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
202 Butylbenzene	377.98	409.21	399.32	376.58	371.53	391.53	321.56	388.79	377.51	379.33	24.85	71.97
203 Butyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
204 1,2-Dichlorobenzene	459.79	458.84	436.36	432.09	432.68	452.83	459.30	470.11	467.48	452.16	14.76	42.75
205 Hexachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

PPTV RL | SPRL | MDL Blank

500	400	126.94
2000	400	
500	400	77.63
2000	400	
500	800	185.10
2000	800	
2000	800	
500	400	
500	400	
500	800	
2000	400	27.37
500	400	

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/01JUN21.b/321q0317a.m
Batch File: /chem/msd3.i/01JUN21.b
Inst ID: msd3.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
206 1,2-Dibromo-3-chloropr	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
207 Dodecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
208 1,3,5-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
209 1-Decene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
210 alpha-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
211 1,4-Dichloro-2-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
212 3-Ethyltoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
213 1,2,4-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
214 beta-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
215 Hexachlorobutadiene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
216 Naphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
217 Limonene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
218 Benzaldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
219 Indan	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
220 Indene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
221 Isobutylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
222 1,2,3-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
223 2-Ethyltoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
224 1-Undecene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
225 4-Ethyl-1,2-dimethylbe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
226 1,3-Diethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
227 1,4-Diethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
228 1,2,4,5-tetramethylben	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
229 1-Dodecene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/01JUN21.b/321q0317a.m
Batch File: /chem/msd3.i/01JUN21.b
Inst ID: msd3.i

	Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
	230 Nitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	231 Tridecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	232 2-Methylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	233 1,3,5-Triethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M	234 1,2-Dichloroethene (To	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M	235 Chlorobutane (Total)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M	236 Total Xylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M	237 3 and 4-Ethyltoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	238 Total Volatile Hydroca	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	239 TPH reference to Hexan	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	240 TPH reference to Hepta	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	241 TPH reference to Gasol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	242 TPH reference MineralS	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	243 TPH reference to Stodd	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	244 TVOC reference to Hexa	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	245 TVOC reference to Hept	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	246 TVOC reference to Tolu	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	247 TVOC reference to Tolu	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	248 NMOC reference to Hexa	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	249 NMOC reference to Hept	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	250 NMOC reference to Tolu	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	251 C3 - C4 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	252 C4 - C5 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	253 C5 - C6 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/01JUN21.b/321q0317a.m
Batch File: /chem/msd3.i/01JUN21.b
Inst ID: msd3.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
254 C6 - C7 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
255 C7 - C8 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
256 C8 - C9 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
257 C9 - C10 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
258 C10+ Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
259 C5 - C6 Aliphatic ref	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
260 C6-C8 Aliphatic ref He	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
261 C8-C10 Aliphatic ref D	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
262 C10-C12 Aliphatic ref	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
263 C8-C10 Aromatic	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
264 C8-C10 Aromatic ref 1,	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
265 C10-C12 Aromatic	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
266 C10-C12 Aromatic 1,2,	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
267 C10-C12 Aromatic Naph	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

01JUN21: 0.3 ppbv - mdl.rp

MSD3 TO1S Quad MDL
Standard 3018-2045
12mL load volume
Spike concentration
0.3 ppbv

Report Date : 04-Jun-2021 14:34

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/01JUN21.b/321q0317a.m
Batch File: /chem/msd3.i/01JUN21.b
Inst ID: msd3.i

ID:	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09
FILENAME:	3060106	3060107	3060108	3060206	3060207	3060208	3060309	3060310	3060311
INJ.DATE:	01-JUN-2021	01-JUN-2021	01-JUN-2021	02-JUN-2021	02-JUN-2021	02-JUN-2021	03-JUN-2021	03-JUN-2021	03-JUN-2021
INJ.TIME:	12:41	13:07	13:34	12:50	13:16	13:42	15:30	15:56	16:22

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
1 Dimethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
2 1,1-Dichloro-1-Fluoroe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
3 Freon 143a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
4 Freon 134a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
5 Propylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
6 Propane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
7 1,1-Difluoroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
8 Freon 12	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
9 Chlorodifluoromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
10 Freon 114	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
11 Freon 14	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
12 Isobutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
13 Freon 142b	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
14 Acetaldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
15 Chloromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
16 Hexafluoropropene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
17 Freon 13	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Reviewer 1 _____ Date: 6/16/21
Reviewer 2 _____ Date: 6/16/21

$\bar{X} = 64.88$
$2\bar{X} = 129.76$
$3\bar{X} = 194.64$
$4\bar{X} = 259.52$

MDL verification
Standard # 3018-1973 (5.0 ppbv)
10mL volume file # 3061507
spike concentration 0.25 ppbv

Ratio of the mean recovered concentration and MDL value is between 1-20.

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/01JUN21.b/321q0317a.m
Batch File: /chem/msd3.i/01JUN21.b
Inst ID: msd3.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
18 Butane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
19 Vinyl Chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
20 1,3-Butadiene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
21 Vinyl Fluoride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
22 Ethylene Oxide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
23 Methanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
24 Bromomethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
25 Isobutylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
26 2-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
27 trans-2-butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
28 1-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
29 cis-2-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
30 Chloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
31 Isopentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
32 Vinyl Bromide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
33 Freon 11	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
34 Dichlorofluoromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
35 Pentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
36 1-Pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
37 3-Methyl-1-butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
38 Ethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
39 Ethanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/01JUN21.b/321q0317a.m
Batch File: /chem/msd3.i/01JUN21.b
Inst ID: msd3.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
40 Freon 123a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
41 Freon 123	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
42 Acrolein	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
43 Freon 113	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
44 1,1-Dichloroethene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
45 2-Chloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
46 2,3-Dimethylbutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
47 Acetone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
48 Carbon Disulfide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
49 Iodomethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
50 Isoprene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
51 2-Methyl-2-butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
52 2-Propanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
53 trans-2-Pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
54 3-Chloropropene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
55 Cyclopentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
56 Methyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
57 Acetonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
58 cis-2-Pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
59 Methylene Chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
60 Cyclopentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
61 1,2-Dichloro-1-fluoroe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
62 tert-Butyl alcohol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
63 Methyl tert-butyl ethe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/01JUN21.b/321q0317a.m
Batch File: /chem/msd3.i/01JUN21.b
Inst ID: msd3.i

PPTV RL SPRL

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
64 trans-1,2-Dichloroethe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
65 2,2-Dimethylbutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
66 Acrylonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
67 Hexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
68 1-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
69 Bromoethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
70 4-Methyl-1-pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
71 1,1-Dichloroethane	280.63	334.31	330.88	297.77	269.25	303.07	316.30	316.38	326.08	308.30	22.53	65.24
72 Isopropyl ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
73 Vinyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
74 Chloroprene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
75 1-Propanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
76 2-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
77 3-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
78 1-Chloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
79 Ethyl-tert-butyl ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
80 2-Methyl-1-pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
81 2,4-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
82 2,3-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
83 tert-Butyl chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
84 2,2-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
85 cis-1,2-Dichloroethene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
86 2-Butanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

500 300

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/01JUN21.b/321q0317a.m
Batch File: /chem/msd3.i/01JUN21.b
Inst ID: msd3.i

PPTV RL SpRL

	Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
87	Ethyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
88	Methyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
89	Tetrahydrofuran	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
* 90	Bromochloromethane	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	0.00	0.00
91	trans-2-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
92	Chloroform	332.42	287.99	325.03	322.59	329.86	365.62	317.23	340.28	326.41	327.49	20.45	59.21
93	cis-2-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
94	Cyclohexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
95	Methylcyclopentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
96	1,1,1-Trichloroethane	376.39	307.03	323.45	312.86	337.84	322.48	318.64	338.31	316.45	328.16	20.87	60.45
97	Carbon Tetrachloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
98	sec-Butyl chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
99	1,1-Dichloropropene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
100	2,3,4-Trimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
101	2,2,4-Trimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
102	Benzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
103	Isobutanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
$ 104	1,2-Dichloroethane-d4	24732.82	24483.61	25193.83	26660.74	26303.99	26435.23	27396.85	27274.45	26821.81	26144.82	1080.25	3128.41
105	tert-Amyl methyl ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
106	1,2-Dichloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
107	Heptane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
* 108	1,4-Difluorobenzene	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	0.00	0.00
109	Butanal	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
110	n-Butanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

500 300

500 300

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METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/01JUN21.b/321q0317a.m
Batch File: /chem/msd3.i/01JUN21.b
Inst ID: msd3.i

PQTV RL SPRL

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
111 Trichloroethene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
112 Isobutyl chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
113 Ethyl acrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
114 1,2-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
115 2-Pentanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
116 Methyl Methacrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
117 1,4-Dioxane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
118 Dibromomethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
119 Methacrylonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
120 2-Chloropentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
121 2-Butanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
122 Bromodichloromethane	331.20	340.69	267.31	336.16	334.24	360.49	378.74	377.83	341.91	340.95	33.09	95.82
123 1-Bromopropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
124 Chloroacetonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
125 n-Butylchloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
126 cis-1,3-Dichloropropen	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
127 Methylcyclohexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
128 Thiophene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
129 2-Methylhexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
130 3-Methylhexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
131 4-Methyl-2-pentanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
132 Cyclohexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
$ 133 Benzene-d6	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
$ 134 Toluene-d8	25052.44	25009.73	24504.59	24843.88	25083.33	24789.81	25111.34	25186.81	25305.54	24987.50	240.58	696.71

500 300

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METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/01JUN21.b/321q0317a.m
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Inst ID: msd3.i

PPTV RL SPRL

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
135 1-Methoxy-2-propanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
136 Octane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
137 Toluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
138 1-Heptene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
139 trans-1,3-Dichloroprop	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
140 2,3-Dichloro-1-propene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
141 1,1,2-Trichloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
142 Tetrachloroethene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
143 2-Hexanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
144 1,3-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
145 Butyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
146 Dibromochloromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
147 Bromodichloroethene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
148 1,2-Dibromoethane (EDB	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
149 2-Methylheptane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
150 3-Methylheptane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
151 1-Bromo-2-Chloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
152 Diethyl Ketone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
* 153 Chlorobenzene-d5	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	0.00	0.00
154 Chlorobenzene	334.43	330.38	345.54	321.64	328.85	348.25	311.55	354.66	354.62	336.66	15.09	43.69
155 Ethyl Benzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
156 Nonane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
157 1,1,1,2-Tetrachloroeth	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
158 m,p-Xylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

500 700

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METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/01JUN21.b/321q0317a.m
Batch File: /chem/msd3.i/01JUN21.b
Inst ID: msd3.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
159 2-Nitropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
160 bis(chloromethyl) Ethe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
161 1-Octene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
162 Epichlorohydrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
163 2-Chloroethyl Vinyl Et	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
164 o-Xylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
165 Styrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
166 2-Heptanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
167 Bromoform	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
168 Cumene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
169 Cyclohexanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
$ 170 4-Bromofluorobenzene	26639.07	26542.32	26711.43	26659.23	26349.17	26729.05	26446.99	26674.80	26523.06	26586.12	129.20	374.17
171 Vinyl Cyclohexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
172 D-Limonene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
173 Ethyl Methacrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
174 1-Chloro-2-Bromopropan	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
175 1,1,2,2-Tetrachloroeth	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
176 1-Nitropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
177 Bromobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
178 Propylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
179 1,2,3-Trichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
180 Bromodichloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
181 trans-1,4-Dichloro-2-b	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
182 Decane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/01JUN21.b/321q0317a.m
Batch File: /chem/msd3.i/01JUN21.b
Inst ID: msd3.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
183 4-Ethyltoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
184 2-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
185 1,3,5-Trimethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
186 4-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
187 Diisobutyl Ketone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
188 alpha Methyl Styrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
189 tert-Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
190 1,2,4-Trimethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
191 Pentachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
192 sec-Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
193 bis(2-Chloroethyl) Eth	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
194 p-Cymene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
195 1,3-Dichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
196 1,4-Dichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
197 1,2,3-Trimethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
198 1-Nonene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
199 alpha-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
200 1-Chlorohexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
201 Undecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
202 Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
203 Butyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
204 1,2-Dichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
205 Hexachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/01JUN21.b/321q0317a.m
Batch File: /chem/msd3.i/01JUN21.b
Inst ID: msd3.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
206 1,2-Dibromo-3-chloropr	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
207 Dodecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
208 1,3,5-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
209 1-Decene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
210 alpha-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
211 1,4-Dichloro-2-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
212 3-Ethyltoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
213 1,2,4-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
214 beta-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
215 Hexachlorobutadiene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
216 Naphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
217 Limonene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
218 Benzaldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
219 Indan	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
220 Indene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
221 Isobutylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
222 1,2,3-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
223 2-Ethyltoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
224 1-Undecene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
225 4-Ethyl-1,2-dimethylbe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
226 1,3-Diethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
227 1,4-Diethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
228 1,2,4,5-tetramethylben	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
229 1-Dodecene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/01JUN21.b/321q0317a.m
Batch File: /chem/msd3.i/01JUN21.b
Inst ID: msd3.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
230 Nitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
231 Tridecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
232 2-Methylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
233 1,3,5-Triethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M 234 1,2-Dichloroethene (To	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M 235 Chlorobutane (Total)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M 236 Total Xylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M 237 3 and 4-Ethyltoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
238 Total Volatile Hydroca	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
239 TPH reference to Hexan	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
240 TPH reference to Hepta	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
241 TPH reference to Gasol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
242 TPH reference MineralS	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
243 TPH reference to Stodd	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
244 TVOC reference to Hexa	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
245 TVOC reference to Hept	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
246 TVOC reference to Tolu	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
247 TVOC reference to Tolu	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
248 NMOC reference to Hexa	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
249 NMOC reference to Hept	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
250 NMOC reference to Tolu	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
251 C3 - C4 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
252 C4 - C5 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
253 C5 - C6 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/01JUN21.b/321q0317a.m
Batch File: /chem/msd3.i/01JUN21.b
Inst ID: msd3.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
254 C6 - C7 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
255 C7 - C8 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
256 C8 - C9 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
257 C9 - C10 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
258 C10+ Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
259 C5 - C6 Aliphatic ref	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
260 C6-C8 Aliphatic ref He	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
261 C8-C10 Aliphatic ref D	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
262 C10-C12 Aliphatic ref	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
263 C8-C10 Aromatic	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
264 C8-C10 Aromatic ref 1,	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
265 C10-C12 Aromatic	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
266 C10-C12 Aromatic 1,2,	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
267 C10-C12 Aromatic Naph	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

04JUN21: 0.8ppbv - mdl.rp.

MSD-3 TOIS Quad MDL
Standards 3018-2045
& 3018-1973

Report Date : 15-Jun-2021 11:33

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/04JUN21.b/321q0317a.m
Batch File: /chem/msd3.i/04JUN21.b
Inst ID: msd3.i

32ml load volume
Spike concentration 0.8ppbv and Napka 0.08

ID:	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09
FILENAME:	3060406	3060407	3060408	3060707	3060708	3060709	3060808	3060809	3060810
INJ.DATE:	04-JUN-2021	04-JUN-2021	04-JUN-2021	07-JUN-2021	07-JUN-2021	07-JUN-2021	08-JUN-2021	08-JUN-2021	08-JUN-2021
INJ.TIME:	13:05	13:31	13:58	13:00	13:27	13:53	14:43	15:09	15:36

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL	PPTV RL	sprl
1 Dimethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
2 1,1-Dichloro-1-Fluoroe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
3 Freon 143a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
4 Freon 134a	1020.23	880.17	1137.26	943.95	891.36	853.33	1032.03	892.71	1006.14	961.91	93.26	270.08	2000	800
5 Propylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
6 Propane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
7 1,1-Difluoroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
8 Freon 12	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
9 Chlorodifluoromethane	1361.40	1219.84	962.01	1224.96	1173.73	979.39	1194.48	1247.62	1008.83	1152.47	137.65	398.63	2000	800
10 Freon 114	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
11 Freon 14	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
12 Isobutane	878.19	794.03	684.12	845.10	813.74	808.70	782.30	774.87	774.82	795.10	53.90	156.08	2000	800
13 Freon 142b	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
14 Acetaldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
15 Chloromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
16 Hexafluoropropene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
17 Freon 13	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		

Reviewer 1 _____ Date: 6/16/21
Reviewer 2 _____ Date: 6/17/21

$\bar{X}$ = 18.136
$2\bar{X}$ = 362.73
$3\bar{X}$ = 544.08
$4\bar{X}$ = 725.44

MDL verification
Napk file #3061510a
spike concentration 0.125ppbv
Standard # 3018-1973 (5.0 ppbv)
20ml Value file # 3061509
spike concentration 0.50 ppbv

Ratio of the mean recovered concentration and MDL value is between 1-20 minus Dodecane.

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/04JUN21.b/321q0317a.m
Batch File: /chem/msd3.i/04JUN21.b
Inst ID: msd3.i

PQTVRL SPRL

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL		
18 Butane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
19 Vinyl Chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
20 1,3-Butadiene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
21 Vinyl Fluoride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
22 Ethylene Oxide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
23 Methanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
24 Bromomethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
25 Isobutylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
26 2-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
27 trans-2-butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
28 1-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
29 cis-2-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
30 Chloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
31 Isopentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
32 Vinyl Bromide	783.68	843.96	823.06	874.54	969.30	862.75	804.65	796.67	834.38	843.67	55.83	161.70	2000	800
33 Freon 11	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
34 Dichlorofluoromethane	905.08	894.83	906.95	913.77	843.49	898.09	850.30	875.24	837.60	880.59	29.74	86.12	2000	800
35 Pentane	740.14	744.53	796.56	870.47	692.97	855.75	768.27	787.27	794.77	783.42	55.81	161.64	2000	800
36 1-Pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
37 3-Methyl-1-butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
38 Ethyl Ether	803.87	833.64	752.75	1085.11	920.17	831.38	749.95	878.33	685.15	837.82	116.75	338.12	2000	800
39 Ethanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/04JUN21.b/321q0317a.m
Batch File: /chem/msd3.i/04JUN21.b
Inst ID: msd3.i

PPTV RL SPRL

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL		
40 Freon 123a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
41 Freon 123	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
42 Acrolein	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
43 Freon 113	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
44 1,1-Dichloroethene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
45 2-Chloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
46 2,3-Dimethylbutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
47 Acetone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
48 Carbon Disulfide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
49 Iodomethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
50 Isoprene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
51 2-Methyl-2-butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
52 2-Propanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
53 trans-2-Pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
54 3-Chloropropene	901.59	898.26	821.32	851.78	966.60	747.03	805.43	779.77	900.80	852.51	70.23	203.39	2000	800
55 Cyclopentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
56 Methyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
57 Acetonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
58 cis-2-Pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
59 Methylene Chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
60 Cyclopentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
61 1,2-Dichloro-1-fluoroe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
62 tert-Butyl alcohol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
63 Methyl tert-butyl ethe	778.85	724.05	719.70	833.74	759.76	807.87	747.85	783.09	830.76	776.18	42.32	122.57	2000	800

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/04JUN21.b/321q0317a.m
Batch File: /chem/msd3.i/04JUN21.b
Inst ID: msd3.i

PPTV RL SPRL

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
64 trans-1,2-Dichloroethe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
65 2,2-Dimethylbutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
66 Acrylonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
67 Hexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
68 1-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
69 Bromoethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
70 4-Methyl-1-pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
71 1,1-Dichloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
72 Isopropyl ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
73 Vinyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
74 Chloroprene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
75 1-Propanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
76 2-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
77 3-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
78 1-Chloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
79 Ethyl-tert-butyl ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
80 2-Methyl-1-pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
81 2,4-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
82 2,3-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
83 tert-Butyl chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
84 2,2-Dichloropropane	871.58	818.11	897.42	892.83	834.53	857.33	830.86	860.00	863.58	858.47	27.07	78.41
85 cis-1,2-Dichloroethene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
86 2-Butanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

2000 800

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/04JUN21.b/321q0317a.m
Batch File: /chem/msd3.i/04JUN21.b
Inst ID: msd3.i

PQTV RL SPRL

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
87 Ethyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
88 Methyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
89 Tetrahydrofuran	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
* 90 Bromochloromethane	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	0.00	0.00
91 trans-2-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
92 Chloroform	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
93 cis-2-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
94 Cyclohexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
95 Methylcyclopentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
96 1,1,1-Trichloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
97 Carbon Tetrachloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
98 sec-Butyl chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
99 1,1-Dichloropropene	899.88	905.84	829.55	980.05	897.19	789.24	789.83	884.79	788.68	862.78	67.06	194.21
100 2,3,4-Trimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
101 2,2,4-Trimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
102 Benzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
103 Isobutanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
$ 104 1,2-Dichloroethane-d4	27490.57	26926.33	27656.30	27169.14	26370.11	26940.63	26165.27	26835.14	27387.76	26993.47	497.45	1440.61
105 tert-Amyl methyl ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
106 1,2-Dichloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
107 Heptane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
* 108 1,4-Difluorobenzene	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	0.00	0.00
109 Butanal	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
110 n-Butanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

2000 800

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/04JUN21.b/321q0317a.m
Batch File: /chem/msd3.i/04JUN21.b
Inst ID: msd3.i

PPTV RL SPRL

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
111 Trichloroethene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
112 Isobutyl chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
113 Ethyl acrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
114 1,2-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
115 2-Pentanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
116 Methyl Methacrylate	655.66	687.48	633.20	608.87	671.67	722.86	704.74	698.78	655.65	670.99	36.45	105.57
117 1,4-Dioxane	772.62	846.73	843.41	798.64	795.20	863.42	854.90	857.64	796.94	825.50	34.20	99.05
118 Dibromomethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
119 Methacrylonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
120 2-Chloropentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
121 2-Butanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
122 Bromodichloromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
123 1-Bromopropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
124 Chloroacetonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
125 n-Butylchloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
126 cis-1,3-Dichloropropen	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
127 Methylcyclohexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
128 Thiophene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
129 2-Methylhexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
130 3-Methylhexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
131 4-Methyl-2-pentanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
132 Cyclohexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
$ 133 Benzene-d6	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
$ 134 Toluene-d8	24688.19	25025.38	24938.39	25296.89	25010.04	25129.01	24732.71	24853.10	24734.30	24934.22	203.48	589.28

2000 800
2000 800

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/04JUN21.b/321q0317a.m
Batch File: /chem/msd3.i/04JUN21.b
Inst ID: msd3.i

PPTV RL SPRL

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
135 1-Methoxy-2-propanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
136 Octane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
137 Toluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
138 1-Heptene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
139 trans-1,3-Dichloroprop	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
140 2,3-Dichloro-1-propene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
141 1,1,2-Trichloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
142 Tetrachloroethene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
143 2-Hexanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
144 1,3-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
145 Butyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
146 Dibromochloromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
147 Bromodichloroethene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
148 1,2-Dibromoethane (EDB	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
149 2-Methylheptane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
150 3-Methylheptane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
151 1-Bromo-2-Chloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
152 Diethyl Ketone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
* 153 Chlorobenzene-d5	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	0.00	0.00
154 Chlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
155 Ethyl Benzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
156 Nonane	768.89	759.40	673.44	706.68	690.61	692.59	714.72	748.57	723.94	719.87	33.10	95.85
157 1,1,1,2-Tetrachloroeth	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
158 m,p-Xylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

2000 300

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/04JUN21.b/321q0317a.m
Batch File: /chem/msd3.i/04JUN21.b
Inst ID: msd3.i

PPTV RL SPRL

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL	
159 2-Nitropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
160 bis(chloromethyl) Ethe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
161 1-Octene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
162 Epichlorohydrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
163 2-Chloroethyl Vinyl Et	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
164 o-Xylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
165 Styrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
166 2-Heptanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
167 Bromoform	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
168 Cumene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
169 Cyclohexanone	717.42	667.63	709.26	677.52	710.73	716.14	753.63	864.92	825.56	738.09	66.24	191.82	2000 800
$ 170 4-Bromofluorobenzene	26725.29	26946.13	26904.46	26509.83	26650.79	26586.99	26867.07	26857.17	26525.59	26730.37	169.23	490.09	
171 Vinyl Cyclohexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
172 D-Limonene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
173 Ethyl Methacrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
174 1-Chloro-2-Bromopropan	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
175 1,1,2,2-Tetrachloroeth	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
176 1-Nitropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
177 Bromobenzene	836.90	856.61	830.42	879.25	816.64	875.30	838.05	875.70	897.36	856.25	27.16	78.67	2000 800
178 Propylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
179 1,2,3-Trichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
180 Bromodichloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
181 trans-1,4-Dichloro-2-b	810.42	662.40	714.50	617.17	597.39	694.13	795.48	717.51	707.98	701.88	71.32	206.55	2000 800
182 Decane	881.51	765.94	920.42	810.18	785.49	795.67	690.77	760.67	748.96	795.51	69.41	201.01	2000 800

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/04JUN21.b/321q0317a.m
Batch File: /chem/msd3.i/04JUN21.b
Inst ID: msd3.i

PPTV RL SPRL MDL Blank

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
183 4-Ethyltoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
184 2-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
185 1,3,5-Trimethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
186 4-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
187 Diisobutyl Ketone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
188 alpha Methyl Styrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
189 tert-Butylbenzene	794.34	808.05	771.83	740.78	800.67	812.76	806.77	826.59	806.85	796.51	25.62	74.20
190 1,2,4-Trimethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
191 Pentachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
192 sec-Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
193 bis(2-Chloroethyl) Eth	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
194 p-Cymene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
195 1,3-Dichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
196 1,4-Dichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
197 1,2,3-Trimethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
198 1-Nonene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
199 alpha-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
200 1-Chlorohexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
201 Undecane	477.93	619.00	628.30	482.52	641.52	659.51	448.67	644.95	677.96	586.71	89.82	260.11
202 Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
203 Butyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
204 1,2-Dichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
205 Hexachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

2000 800

2000 800 94.31 ~~127.04~~ UP 6/17/21

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/04JUN21.b/321q0317a.m
Batch File: /chem/msd3.i/04JUN21.b
Inst ID: msd3.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
206 1,2-Dibromo-3-chloropr	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
207 Dodecane	140.32	409.60	509.31	198.46	454.37	517.47	291.67	482.12	574.24	397.51	152.33	441.14
208 1,3,5-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
209 1-Decene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
210 alpha-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
211 1,4-Dichloro-2-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
212 3-Ethyltoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
213 1,2,4-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
214 beta-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
215 Hexachlorobutadiene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
216 Naphthalene	36.66	67.50	84.44	37.01	70.86	89.41	46.82	88.21	90.79	67.97	22.52	65.21
217 Limonene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
218 Benzaldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
219 Indan	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
220 Indene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
221 Isobutylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
222 1,2,3-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
223 2-Ethyltoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
224 1-Undecene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
225 4-Ethyl-1,2-dimethylbe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
226 1,3-Diethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
227 1,4-Diethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
228 1,2,4,5-tetramethylben	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
229 1-Dodecene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

RL SPRL MDLBlank

2000 800 42.10

1000 800 55. ~~32.~~ UD

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/04JUN21.b/321q0317a.m
Batch File: /chem/msd3.i/04JUN21.b
Inst ID: msd3.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
230 Nitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
231 Tridecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
232 2-Methylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
233 1,3,5-Triethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M 234 1,2-Dichloroethene (To	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M 235 Chlorobutane (Total)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M 236 Total Xylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M 237 3 and 4-Ethyltoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
238 Total Volatile Hydroca	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
239 TPH reference to Hexan	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
240 TPH reference to Hepta	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
241 TPH reference to Gasol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
242 TPH reference MineralS	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
243 TPH reference to Stodd	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
244 TVOC reference to Hexa	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
245 TVOC reference to Hept	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
246 TVOC reference to Tolu	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
247 TVOC reference to Tolu	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
248 NMOC reference to Hexa	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
249 NMOC reference to Hept	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
250 NMOC reference to Tolu	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
251 C3 - C4 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
252 C4 - C5 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
253 C5 - C6 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/04JUN21.b/321q0317a.m
Batch File: /chem/msd3.i/04JUN21.b
Inst ID: msd3.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
254 C6 - C7 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
255 C7 - C8 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
256 C8 - C9 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
257 C9 - C10 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
258 C10+ Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
259 C5 - C6 Aliphatic ref	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
260 C6-C8 Aliphatic ref He	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
261 C8-C10 Aliphatic ref D	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
262 C10-C12 Aliphatic ref	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
263 C8-C10 Aromatic	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
264 C8-C10 Aromatic ref 1,	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
265 C10-C12 Aromatic	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
266 C10-C12 Aromatic 1,2,	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
267 C10-C12 Aromatic Naph	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

04JUN21: 2.0 ppbv_mdl.rp

MSD-3 TO15 Quad MDL
Standards 3018-2045
&

Report Date : 15-Jun-2021 11:51

 3018-1973

80 mL load volume

Spike concentration
2.0 ppbv

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/04JUN21.b/321q0317a.m
Batch File: /chem/msd3.i/04JUN21.b
Inst ID: msd3.i

ID:	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09
FILENAME:	3060409	3060410	3060411	3060710	3060711	3060712	3060811	3060812	3060813
INJ.DATE:	04-JUN-2021	04-JUN-2021	04-JUN-2021	07-JUN-2021	07-JUN-2021	07-JUN-2021	08-JUN-2021	08-JUN-2021	08-JUN-2021
INJ.TIME:	14:24	14:51	15:18	14:20	14:47	15:14	16:03	16:30	16:57

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL	PQTV	RL	SPRL
1 Dimethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
2 1,1-Dichloro-1-Fluoroe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
3 Freon 143a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
4 Freon 134a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
5 Propylene	1895.27	1886.72	2016.75	2124.37	2008.50	2054.54	2262.16	1965.02	1844.81	2006.46	130.51	377.95	2000	2000	
6 Propane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
7 1,1-Difluoroethane	1772.53	1771.55	2123.15	1910.86	1785.64	1982.54	1961.37	1901.37	2087.22	1921.80	130.91	379.11	2000	2000	
8 Freon 12	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
9 Chlorodifluoromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
10 Freon 114	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
11 Freon 14	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
12 Isobutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
13 Freon 142b	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
14 Acetaldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
15 Chloromethane	2446.43	2396.33	2229.58	2457.74	2520.19	2184.14	1960.47	2164.84	2410.41	2307.79	182.91	529.72	5000	5000	
16 Hexafluoropropene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
17 Freon 13	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			

Reviewer 1 _____ Date: 6/17/21
Reviewer 2 _____ Date: _____

$\bar{X}$ = 355.52
$2\bar{X}$ = 711.04
$3\bar{X}$ = 1066.56
$4\bar{X}$ = 1422.08

MDL Verification
Standard # 3018-1973 (5.0ppbv)
50 ml volume file # 3061510
Spike concentration 1.25ppbv

Ratio of the mean recovered concentration and MDL value is between 1-20.

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/04JUN21.b/321q0317a.m
Batch File: /chem/msd3.i/04JUN21.b
Inst ID: msd3.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL	PQL	SPL
18 Butane	3183.45	2279.06	3026.36	2558.65	3212.02	2317.47	2489.83	2920.02	2728.77	2746.18	357.09	1034.13	2000	2000
19 Vinyl Chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
20 1,3-Butadiene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
21 Vinyl Fluoride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
22 Ethylene Oxide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
23 Methanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
24 Bromomethane	2395.51	2439.94	2380.81	2531.05	2511.35	2478.22	2328.68	2332.32	2346.02	2415.99	77.42	224.22	5000	5000
25 Isobutylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
26 2-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
27 trans-2-butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
28 1-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
29 cis-2-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
30 Chloroethane	1880.59	1938.87	2234.46	2059.51	2192.55	1963.37	2222.99	1965.71	1925.32	2042.60	139.23	403.20	2000	2000
31 Isopentane	1900.93	1823.40	1959.41	1734.97	1927.37	1869.93	1974.60	2015.10	1844.44	1894.46	86.54	250.61	2000	2000
32 Vinyl Bromide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
33 Freon 11	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
34 Dichlorofluoromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
35 Pentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
36 1-Pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
37 3-Methyl-1-butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
38 Ethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
39 Ethanol	2224.57	2056.44	2095.67	2045.09	1935.11	2001.72	1584.64	1981.08	1778.21	1966.95	187.50	843.01	5000	5000

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/04JUN21.b/321q0317a.m
Batch File: /chem/msd3.i/04JUN21.b
Inst ID: msd3.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
40 Freon 123a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
41 Freon 123	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
42 Acrolein	2183.92	2172.73	1737.46	1732.35	1757.32	1896.96	1777.44	1555.18	1856.45	1852.20	207.71	601.53
43 Freon 113	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
44 1,1-Dichloroethene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
45 2-Chloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
46 2,3-Dimethylbutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
47 Acetone	2147.22	2237.76	2296.68	2131.30	2222.89	2159.67	2322.43	2173.11	2217.20	2212.03	66.27	191.92
48 Carbon Disulfide	1934.24	1985.16	2039.49	2049.09	2040.18	2100.17	2073.16	2126.95	1990.51	2037.66	60.16	174.23
49 Iodomethane	1589.11	1635.17	1581.92	1587.37	1613.22	1691.75	1811.64	1803.18	1757.05	1674.49	94.36	273.27
50 Isoprene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
51 2-Methyl-2-butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
52 2-Propanol	1794.36	1822.54	1711.42	1791.57	1797.78	1796.45	1798.99	1857.55	1717.83	1787.61	46.31	134.12
53 trans-2-Pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
54 3-Chloropropene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
55 Cyclopentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
56 Methyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
57 Acetonitrile	2218.44	1733.46	1851.28	2534.21	2300.44	2012.33	1876.98	2324.73	2139.38	2110.14	261.61	757.62
58 cis-2-Pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
59 Methylene Chloride	2074.20	1893.47	1964.98	1963.63	1866.35	2124.24	1845.83	1971.89	1853.78	1950.93	98.09	284.07
60 Cyclopentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
61 1,2-Dichloro-1-fluoroe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
62 tert-Butyl alcohol	1956.21	1860.61	2011.15	1914.12	2020.15	1968.71	2013.42	1901.20	1866.05	1945.74	62.86	182.05
63 Methyl tert-butyl ethe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

PPTV RL SPRL MDL Blank

2000 2000
5000 5000
2000 2000
2000 2000
5000 5000
2000 2000

359.44
478.89
469.09
112.66

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/04JUN21.b/321q0317a.m
Batch File: /chem/msd3.i/04JUN21.b
Inst ID: msd3.i

PPTV RL SPRL

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL		
64 trans-1,2-Dichloroethe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
65 2,2-Dimethylbutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
66 Acrylonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
67 Hexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
68 1-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
69 Bromoethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
70 4-Methyl-1-pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
71 1,1-Dichloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
72 Isopropyl ether	1603.29	1674.62	1673.98	1668.64	1676.93	1665.61	1752.29	1740.61	1633.26	1676.58	46.47	134.57	2000	2000
73 Vinyl Acetate	1822.00	1897.09	1775.47	1954.36	1918.14	1849.38	1773.45	1506.56	1930.17	1825.18	136.37	394.94	2000	2000
74 Chloroprene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
75 1-Propanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
76 2-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
77 3-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
78 1-Chloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
79 Ethyl-tert-butyl ether	1680.62	1698.95	1744.65	1759.02	1820.78	1765.83	1823.59	1807.51	1728.22	1758.80	51.59	149.40	2000	2000
80 2-Methyl-1-pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
81 2,4-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
82 2,3-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
83 tert-Butyl chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
84 2,2-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
85 cis-1,2-Dichloroethene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
86 2-Butanone	1718.93	1997.91	1789.77	1970.41	1908.84	2026.98	1936.14	1728.27	2009.26	1898.50	121.65	352.31	2000	2000

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/04JUN21.b/321q0317a.m
Batch File: /chem/msd3.i/04JUN21.b
Inst ID: msd3.i

PPTV RL SpRL

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL		
87 Ethyl Acetate	1716.25	1997.76	2140.83	2102.54	2320.20	1795.83	2259.67	2103.62	2003.39	2048.90	197.40	571.67	2000	2000
88 Methyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
89 Tetrahydrofuran	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
* 90 Bromochloromethane	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	0.00	0.00		
91 trans-2-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
92 Chloroform	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
93 cis-2-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
94 Cyclohexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
95 Methylcyclopentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
96 1,1,1-Trichloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
97 Carbon Tetrachloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
98 sec-Butyl chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
99 1,1-Dichloropropene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
100 2,3,4-Trimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
101 2,2,4-Trimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
102 Benzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
103 Isobutanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
$ 104 1,2-Dichloroethane-d4	27065.78	27211.11	27839.35	26921.86	27261.09	27437.37	27796.97	27288.39	27087.91	27323.31	317.07	918.22		
105 tert-Amyl methyl ether	1898.82	1883.77	1874.83	2063.71	1929.81	2037.46	2151.64	2086.73	2020.48	1994.14	100.27	290.38	2000	2000
106 1,2-Dichloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
107 Heptane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
* 108 1,4-Difluorobenzene	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	0.00	0.00		
109 Butanal	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
110 n-Butanol	1805.09	1680.56	1702.49	1641.93	1728.46	1636.98	2012.85	1909.70	1958.21	1786.25	141.93	411.03	2000	2000

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/04JUN21.b/321q0317a.m
Batch File: /chem/msd3.i/04JUN21.b
Inst ID: msd3.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
111 Trichloroethene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
112 Isobutyl chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
113 Ethyl acrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
114 1,2-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
115 2-Pentanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
116 Methyl Methacrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
117 1,4-Dioxane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
118 Dibromomethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
119 Methacrylonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
120 2-Chloropentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
121 2-Butanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
122 Bromodichloromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
123 1-Bromopropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
124 Chloroacetonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
125 n-Butylchloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
126 cis-1,3-Dichloropropen	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
127 Methylcyclohexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
128 Thiophene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
129 2-Methylhexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
130 3-Methylhexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
131 4-Methyl-2-pentanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
132 Cyclohexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
$ 133 Benzene-d6	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
$ 134 Toluene-d8	25056.76	24865.10	25701.80	25100.41	24712.41	25001.62	25005.75	25024.33	25090.63	25062.09	269.46	780.36

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/04JUN21.b/321q0317a.m
Batch File: /chem/msd3.i/04JUN21.b
Inst ID: msd3.i

PPTV RL SPRL

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL	
135 1-Methoxy-2-propanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
136 Octane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
137 Toluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
138 1-Heptene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
139 trans-1,3-Dichloroprop	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
140 2,3-Dichloro-1-propene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
141 1,1,2-Trichloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
142 Tetrachloroethene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
143 2-Hexanone	1468.29	1603.58	1609.32	1602.55	1560.39	1549.62	1655.20	1643.82	1638.50	1592.36	58.61	169.75	2000 2000
144 1,3-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
145 Butyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
146 Dibromochloromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
147 Bromodichloroethene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
148 1,2-Dibromoethane (EDB	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
149 2-Methylheptane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
150 3-Methylheptane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
151 1-Bromo-2-Chloroethane	1973.65	1911.11	1988.34	1949.81	1904.01	1949.84	1903.35	1999.37	1964.31	1949.31	36.18	104.78	2000 2000
152 Diethyl Ketone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
* 153 Chlorobenzene-d5	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	0.00	0.00	
154 Chlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
155 Ethyl Benzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
156 Nonane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
157 1,1,1,2-Tetrachloroeth	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
158 m,p-Xylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	

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METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/04JUN21.b/321q0317a.m
Batch File: /chem/msd3.i/04JUN21.b
Inst ID: msd3.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
159 2-Nitropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
160 bis(chloromethyl) Ethe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
161 1-Octene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
162 Epichlorohydrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
163 2-Chloroethyl Vinyl Et	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
164 o-Xylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
165 Styrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
166 2-Heptanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
167 Bromoform	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
168 Cumene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
169 Cyclohexanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
$ 170 4-Bromofluorobenzene	26871.86	26931.67	26614.16	26384.82	26782.21	26706.69	26303.23	26768.32	26674.45	26670.82	209.70	607.29
171 Vinyl Cyclohexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
172 D-Limonene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
173 Ethyl Methacrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
174 1-Chloro-2-Bromopropan	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
175 1,1,2,2-Tetrachloroeth	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
176 1-Nitropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
177 Bromobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
178 Propylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
179 1,2,3-Trichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
180 Bromodichloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
181 trans-1,4-Dichloro-2-b	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
182 Decane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/04JUN21.b/321q0317a.m
Batch File: /chem/msd3.i/04JUN21.b
Inst ID: msd3.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
183 4-Ethyltoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
184 2-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
185 1,3,5-Trimethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
186 4-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
187 Diisobutyl Ketone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
188 alpha Methyl Styrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
189 tert-Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
190 1,2,4-Trimethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
191 Pentachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
192 sec-Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
193 bis(2-Chloroethyl) Eth	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
194 p-Cymene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
195 1,3-Dichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
196 1,4-Dichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
197 1,2,3-Trimethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
198 1-Nonene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
199 alpha-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
200 1-Chlorohexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
201 Undecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
202 Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
203 Butyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
204 1,2-Dichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
205 Hexachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/04JUN21.b/321q0317a.m
Batch File: /chem/msd3.i/04JUN21.b
Inst ID: msd3.i

PPTV RL SQRL MDL Blank

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
206 1,2-Dibromo-3-chloropr	1951.44	1947.16	1977.57	2027.39	2008.69	1987.45	2081.78	2090.32	2136.24	2023.12	66.36	192.19
207 Dodecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
208 1,3,5-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
209 1-Decene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
210 alpha-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
211 1,4-Dichloro-2-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
212 3-Ethyltoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
213 1,2,4-Trichlorobenzene	2631.64	2783.53	2686.74	2587.93	2673.01	2725.71	2667.73	2760.52	2834.63	2705.72	77.71	225.05
214 beta-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
215 Hexachlorobutadiene	2747.79	2829.99	2973.42	2724.50	2871.60	2809.93	2783.77	2891.54	2843.95	2830.72	76.41	221.28
216 Naphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
217 Limonene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
218 Benzaldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
219 Indan	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
220 Indene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
221 Isobutylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
222 1,2,3-Trichlorobenzene	2702.06	2769.93	2767.74	2604.14	2729.64	2813.98	2773.79	2903.83	2934.27	2777.71	100.04	289.72
223 2-Ethyltoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
224 1-Undecene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
225 4-Ethyl-1,2-dimethylbe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
226 1,3-Diethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
227 1,4-Diethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
228 1,2,4,5-tetramethylben	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
229 1-Dodecene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

213: RL 2000, SQRL 2000, MDL Blank 65.15
215: RL 2000, SQRL 2000, MDL Blank 45.73
222: RL 2000, SQRL 2000, MDL Blank 87.49

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METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/04JUN21.b/321q0317a.m
Batch File: /chem/msd3.i/04JUN21.b
Inst ID: msd3.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
230 Nitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
231 Tridecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
232 2-Methylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
233 1,3,5-Triethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M 234 1,2-Dichloroethene (To	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M 235 Chlorobutane (Total)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M 236 Total Xylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M 237 3 and 4-Ethyltoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
238 Total Volatile Hydroca	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
239 TPH reference to Hexan	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
240 TPH reference to Hepta	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
241 TPH reference to Gasol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
242 TPH reference MineralS	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
243 TPH reference to Stodd	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
244 TVOC reference to Hexa	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
245 TVOC reference to Hept	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
246 TVOC reference to Tolu	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
247 TVOC reference to Tolu	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
248 NMOC reference to Hexa	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
249 NMOC reference to Hept	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
250 NMOC reference to Tolu	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
251 C3 - C4 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
252 C4 - C5 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
253 C5 - C6 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

US32TAR1
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/04JUN21.b/321q0317a.m
Batch File: /chem/msd3.i/04JUN21.b
Inst ID: msd3.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	MDL
254 C6 - C7 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
255 C7 - C8 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
256 C8 - C9 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
257 C9 - C10 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
258 C10+ Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
259 C5 - C6 Aliphatic ref	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
260 C6-C8 Aliphatic ref He	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
261 C8-C10 Aliphatic ref D	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
262 C10-C12 Aliphatic ref	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
263 C8-C10 Aromatic	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
264 C8-C10 Aromatic ref 1,	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
265 C10-C12 Aromatic	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
266 C10-C12 Aromatic 1,2,	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
267 C10-C12 Aromatic Naph	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

03MAY21.EPALB-mdl.rpt

MSD-3 Blank MDL

Can# 35157

Report Date : 17-JUN-2021 13:23

US32TAR1

SPIKED METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/05MAY21.b/321q0317a.m

Batch File: /chem/msd3.i/05MAY21.b

Instrument Names: msd3.i

Student T 2.896 for 9 Replicates with 99% Confidence

	Spiked ID(s)	Spiked Vol(s)

ID:	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09
FILENAME:	3050306EPALB	3050307EPALB	3050308EPALB	3050406EPALB	3050407EPALB	3050408EPALB	3050506EPALB	3050507EPALB	3050508EPALB
INJ.DATE:	03-MAY-2021	03-MAY-2021	03-MAY-2021	04-MAY-2021	04-MAY-2021	04-MAY-2021	05-MAY-2021	05-MAY-2021	05-MAY-2021
INJ.TIME:	11:47	13:00	13:29	13:28	14:13	14:42	12:40	13:28	13:58

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	SPK AMT	RL	RATIO	MDL
1 Freon 134a	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.800	1.00	0.000000
2 Propylene	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	2.00	1.00	0.000000
3 1,1-Difluoroethane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	2.00	1.00	0.000000
4 Freon 12	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000
5 Chlorodifluoromethane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.800	1.00	0.000000
6 Freon 114	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000
7 Isobutane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.800	1.00	0.000000
8 Chloromethane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	5.00	1.00	0.000000
9 Butane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	2.00	1.00	0.000000
10 Vinyl Chloride	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000
11 1,3-Butadiene	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000
12 Bromomethane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	5.00	1.00	0.000000
13 Chloroethane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	2.00	1.00	0.000000
14 Isopentane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	2.00	1.00	0.000000
15 Vinyl Bromide	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.800	1.00	0.000000
16 Freon 11	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000
17 Dichlorofluoromethane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.800	1.00	0.000000
18 Pentane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.800	1.00	0.000000
19 Ethanol	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	5.00	1.00	0.000000
20 Ethyl Ether	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.800	1.00	0.000000
21 Acrolein	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	2.00	1.00	0.000000

Reviewer 1 _____ Date: 6/17/21

Reviewer 2 _____ Date: 6/17/21

US32TAR1

SPIKED METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/05MAY21.b/321q0317a.m

Batch File: /chem/msd3.i/05MAY21.b

Instrument Names: msd3.i

PPTV

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	SPK AMT	RL	RATIO	MDL	
22 Freon 113	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000	
23 1,1-Dichloroethene	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.500	1.00	0.000000	
24 Acetone 359.44	298.34	251.09	309.57	0.000000	359.44	92.36	167.90	235.09	194.44	212.03	113.07	0.000000	5.00	0.647	327.46	Ratio 1
25 Iodomethane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	2.00	1.00	0.000000	
26 Carbon Disulfide 469.09	339.14	319.54	300.16	139.62	136.38	122.01	154.39	119.39	122.79	194.82	94.71	0.000000	2.00	0.710	274.27	Ratio 1
27 2-Propanol 112.66	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	112.66	0.000000	0.000000	12.52	37.55	0.000000	2.00	0.115	108.75	Ratio 1
28 3-Chloropropene	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.800	1.00	0.000000	
29 Acetonitrile	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	2.00	1.00	0.000000	
30 Methylene Chloride	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	5.00	1.00	0.000000	
31 tert-Butyl alcohol	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	2.00	1.00	0.000000	
32 Methyl tert-butyl ether	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.800	1.00	0.000000	
33 trans-1,2-Dichloroethene	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000	
34 Acrylonitrile	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.500	1.00	0.000000	
35 Hexane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.500	1.00	0.000000	
36 Isopropyl ether	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	2.00	1.00	0.000000	
37 1,1-Dichloroethane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.300	1.00	0.000000	
38 Vinyl Acetate	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	2.00	1.00	0.000000	
39 Ethyl-tert-butyl ether	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	2.00	1.00	0.000000	
40 2,2-Dichloropropane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.800	1.00	0.000000	
41 cis-1,2-Dichloroethene	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000	
42 2-Butanone	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	2.00	1.00	0.000000	
43 Ethyl Acetate	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	2.00	1.00	0.000000	
44 Tetrahydrofuran	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.500	1.00	0.000000	
* 45 Bromochloromethane	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	0.000000	0.000000	2.00	1.00	0.000000	
46 Chloroform	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.300	1.00	0.000000	
47 Cyclohexane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000	
48 1,1,1-Trichloroethane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.300	1.00	0.000000	
49 Carbon Tetrachloride	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.500	1.00	0.000000	

Reviewer 1 _____ Date:_____

Reviewer 2 _____ Date:_____

US32TAR1

SPIKED METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/05MAY21.b/321q0317a.m

Batch File: /chem/msd3.i/05MAY21.b

Instrument Names: msd3.i

PPTV

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	AVG CONC	STD DEV	SPK AMT	RL	RATIO	MDL	
50 1,1-Dichloropropene	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.800	1.00	0.000000	
51 2,2,4-Trimethylpentane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000	
52 Benzene	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000	
$ 53 1,2-Dichloroethane-d4	23867.00	23965.00	25269.00	24324.00	25031.00	24883.00	24739.00	25158.00	25187.00	24713.67	534.92	0.000000	2.00	15.95	1549.11	
54 tert-Amyl methyl ether	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	2.00	1.00	0.000000	
55 1,2-Dichloroethane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.500	1.00	0.000000	
56 Heptane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.500	1.00	0.000000	
* 57 1,4-Difluorobenzene	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	0.000000	0.000000	2.00	1.00	0.000000	
58 n-Butanol	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	2.00	1.00	0.000000	
59 Trichloroethene	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000	
60 Methylcyclohexane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000	
61 1,2-Dichloropropane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000	
62 Methyl Methacrylate	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.800	1.00	0.000000	
63 1,4-Dioxane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.800	1.00	0.000000	
64 Dibromomethane 80.81	33.73	43.38	30.60	51.13	65.68	44.43	49.34	18.84	35.12	41.36	13.62	0.000000	0.400	1.05	39.45	
65 Bromodichloromethane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.300	1.00	0.000000	
66 1-Bromo-2-Chloroethane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	2.00	1.00	0.000000	
67 cis-1,3-Dichloropropene	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000	
68 4-Methyl-2-pentanone	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000	
$ 69 Toluene-d8	24542.00	24548.00	25114.00	24548.00	24850.00	24479.00	24603.00	25251.00	25182.00	24790.78	313.26	0.000000	2.00	27.33	907.21	
70 Toluene 120.97	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	120.97	62.39	56.94	26.70	43.81	0.000000	0.400	0.210	126.86	Ratio 1
71 Octane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000	
72 trans-1,3-Dichloropropene	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000	
73 1,1,2-Trichloroethane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000	
74 Tetrachloroethene 88.47	88.47	42.69	0.000000	59.53	47.20	0.000000	0.000000	0.000000	0.000000	26.43	33.79	0.000000	0.400	0.270	97.85	Ratio 1
75 1,3-Dichloropropane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.500	1.00	0.000000	
76 2-Hexanone	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	2.00	1.00	0.000000	
77 Dibromochloromethane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000	
78 1,2-Dibromoethane (EDB)	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.500	1.00	0.000000	
* 79 Chlorobenzene-d5	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	0.000000	0.000000	2.00	1.00	0.000000	

PPTV

80	Chlorobenzene	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.300	1.00	0.000000		
81	Ethyl Benzene	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000		
82	Nonane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.800	1.00	0.000000		
83	1,1,1,2-Tetrachloroethane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000		
84	m,p-Xylene 273.15	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	273.15	94.60	44.99	45.86	91.28	0.000000	0.500	0.173	264.35	Ratio 1
85	o-Xylene 133.68	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	133.68	32.71	28.38	21.64	44.06	0.000000	0.400	0.170	127.60	Ratio 1
86	Styrene	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000		
87	Bromoform	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000		
88	Cumene	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.500	1.00	0.000000		
89	Cyclohexanone	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.800	1.00	0.000000		
$ 90	4-Bromofluorobenzene	25896.00	25913.00	25874.00	25941.00	26040.00	26188.00	26321.00	25639.00	25907.00	25968.78	196.19	0.000000	2.00	45.71	568.17	
91	Bromobenzene	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.800	1.00	0.000000		
92	1,1,2,2-Tetrachloroethane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000		
93	Propylbenzene	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000		
94	1,2,3-Trichloropropane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000		
95	trans-1,4-Dichloro-2-butene	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.800	1.00	0.000000		
96	Decane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.800	1.00	0.000000		
97	4-Ethyltoluene 126.94	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	126.94	29.81	0.000000	17.42	42.24	0.000000	0.400	0.142	122.32	Rat:
98	2-Chlorotoluene	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000		
99	1,3,5-Trimethylbenzene 77.63	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	77.63	5.00	0.000000	9.18	25.72	0.000000	0.400	0.123	74.49	Rat.
100	alpha Methyl Styrene	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000		
101	tert-Butylbenzene	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.800	1.00	0.000000		
102	1,2,4-Trimethylbenzene 185.07	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	185.07	47.06	23.44	28.40	60.99	0.000000	0.500	0.161	176.63	Ratio
103	sec-Butylbenzene	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.500	1.00	0.000000		
104	p-Cymene	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.500	1.00	0.000000		
105	1,3-Dichlorobenzene	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000		
106	1,4-Dichlorobenzene	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000		
107	alpha-Chlorotoluene	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400	1.00	0.000000		
108	Undecane 94.31	74.50	80.07	0.000000	85.85	94.31	68.53	77.68	68.54	69.88	68.82	27.19	0.000000	0.500	1.00	0.000000	
109	Butylbenzene 27.37	27.37	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	3.04	9.12	0.000000	0.800	0.874	78.74	Ratio 1
110	1,2-Dichlorobenzene	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	7.95	0.000000	0.000000	0.884	2.65	0.000000	0.400	0.115	7.68	Ratio 1
111	1,2-Dibromo-3-chloropropane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	2.00	1.00	0.000000	
112	Dodecane 42.10	0.000000	0.000000	0.000000	11.78	13.12	12.16	42.10	17.61	0.000000	10.75	13.70	0.000000	0.800	0.271	39.66	Ratio 1
113	1,2,4-Trichlorobenzene 65.15	65.15	36.30	12.86	45.67	0.000000	0.000000	39.09	14.59	0.000000	23.74	23.67	0.000000	2.00	0.346	68.55	Ratio 1
114	Hexachlorobutadiene 45.73	45.73	14.83	0.000000	14.55	0.000000	0.000000	32.75	12.37	0.000000	13.36	16.36	0.000000	2.00	0.282	47.39	Ratio 1
115	Naphthalene 55.54	15.72	12.13	7.63	12.71	9.23	3.10	32.18	14.80	12.07	13.29	8.07	0.000000	0.800	0.569	23.36	Ratio 1
116	1,2,3-Trichlorobenzene 87.49	87.49	47.85	0.000000	46.72	26.16	23.57	49.71	16.01	0.000000	33.06	27.97	0.000000	2.00	0.408	81.01	Ratio 1

Reviewer 1 _____ Date:_____

Reviewer 2 _____ Date:_____

eurofins | Air Toxics

Client ID:	CCV		
Lab ID:	2108676B-04A	**Date/Time Analyzed:**	9/9/21 11:39 AM
Date/Time Collected:	NA - Not Applicable	**Dilution Factor:**	1.00
Media:	NA - Not Applicable	**Instrument/Filename:**	msd3.i / 3090903

Compound	CAS#	%Recovery
1,1,1,2-Tetrachloroethane	630-20-6	102
1,1,1-Trichloroethane	71-55-6	88
1,1,2,2-Tetrachloroethane	79-34-5	99
1,1,2-Trichloroethane	79-00-5	97
1,1-Dichloroethane	75-34-3	92
1,1-Dichloroethene	75-35-4	84
1,1-Difluoroethane	75-37-6	88
1,2,3-Trichloropropane	96-18-4	95
1,2,4-Trichlorobenzene	120-82-1	86
1,2,4-Trimethylbenzene	95-63-6	100
1,2-Dibromo-3-chloropropane	96-12-8	96
1,2-Dibromoethane (EDB)	106-93-4	94
1,2-Dichlorobenzene	95-50-1	99
1,2-Dichloroethane	107-06-2	85
1,2-Dichloropropane	78-87-5	103
1,3,5-Trimethylbenzene	108-67-8	100
1,3-Butadiene	106-99-0	74
1,3-Dichlorobenzene	541-73-1	98
1,4-Dichlorobenzene	106-46-7	99
1,4-Dioxane	123-91-1	95
2,2,4-Trimethylpentane	540-84-1	104
2-Butanone (Methyl Ethyl Ketone)	78-93-3	96
2-Hexanone	591-78-6	92
2-Propanol	67-63-0	88

Client ID:	CCV		
Lab ID:	2108676B-04A	**Date/Time Analyzed:**	9/9/21 11:39 AM
Date/Time Collected:	NA - Not Applicable	**Dilution Factor:**	1.00
Media:	NA - Not Applicable	**Instrument/Filename:**	msd3.i / 3090903

Compound	CAS#	%Recovery
3-Chloropropene	107-05-1	85
4-Ethyltoluene	622-96-8	98
4-Methyl-2-pentanone	108-10-1	98
Acetone	67-64-1	91
Acrolein	107-02-8	88
Acrylonitrile	107-13-1	88
alpha-Chlorotoluene	100-44-7	96
Benzene	71-43-2	96
Bromodichloromethane	75-27-4	94
Bromoform	75-25-2	96
Bromomethane	74-83-9	88
Carbon Disulfide	75-15-0	91
Carbon Tetrachloride	56-23-5	94
Chlorobenzene	108-90-7	97
Chloroethane	75-00-3	89
Chloroform	67-66-3	92
Chloromethane	74-87-3	85
cis-1,2-Dichloroethene	156-59-2	94
cis-1,3-Dichloropropene	10061-01-5	99
Cumene	98-82-8	98
Cyclohexane	110-82-7	95
Dibromochloromethane	124-48-1	95
Dibromomethane	74-95-3	92
Ethanol	64-17-5	82

Client ID:	CCV		
Lab ID:	2108676B-04A	**Date/Time Analyzed:**	9/9/21 11:39 AM
Date/Time Collected:	NA - Not Applicable	**Dilution Factor:**	1.00
Media:	NA - Not Applicable	**Instrument/Filename:**	msd3.i / 3090903

Compound	CAS#	%Recovery
Ethyl Acetate	141-78-6	97
Ethyl Benzene	100-41-4	98
Ethyl-tert-butyl ether	637-92-3	95
Freon 11	75-69-4	82
Freon 113	76-13-1	85
Freon 114	76-14-2	86
Freon 12	75-71-8	83
Freon 134a	811-97-2	83
Heptane	142-82-5	100
Hexachlorobutadiene	87-68-3	89
Hexachloroethane	67-72-1	106
Hexane	110-54-3	95
Iodomethane	74-88-4	90
Isopropyl ether	108-20-3	97
m,p-Xylene	108-38-3	98
Methyl tert-butyl ether	1634-04-4	86
Methylene Chloride	75-09-2	95
Naphthalene	91-20-3	74
o-Xylene	95-47-6	99
Propylbenzene	103-65-1	98
Propylene	115-07-1	90
Styrene	100-42-5	99
tert-Amyl methyl ether	994-05-8	95
tert-Butyl alcohol	75-65-0	87

Client ID:	CCV		
Lab ID:	2108676B-04A	**Date/Time Analyzed:**	9/9/21 11:39 AM
Date/Time Collected:	NA - Not Applicable	**Dilution Factor:**	1.00
Media:	NA - Not Applicable	**Instrument/Filename:**	msd3.i / 3090903

Compound	CAS#	%Recovery
Tetrachloroethene	127-18-4	95
Tetrahydrofuran	109-99-9	97
Toluene	108-88-3	102
TPH ref. to Gasoline (MW=100)	9999-9999-038	100
trans-1,2-Dichloroethene	156-60-5	91
trans-1,3-Dichloropropene	10061-02-6	91
Trichloroethene	79-01-6	96
Vinyl Acetate	108-05-4	90
Vinyl Bromide	593-60-2	84
Vinyl Chloride	75-01-4	78

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	92
4-Bromofluorobenzene	460-00-4	70-130	100
Toluene-d8	2037-26-5	70-130	105

US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msd3.i/09SEP21.b/3090903.d
Lab Smp Id: CCV Client Smp ID: CCV
Inj Date : 09-SEP-2021 11:39
Operator : LD Inst ID: msd3.i
Smp Info : 100mL 3018-2213A
Misc Info : 50ppbv (100ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msd3.i/09SEP21.b/321q0812b.m
Meth Date : 10-Sep-2021 13:30 ugdc Quant Type: ISTD
Cal Date : 02-SEP-2021 10:33 Cal File: 3090203.d
Als bottle: 13 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT20_new.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

					AMOUNTS			
					CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE		(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========		=======	=======	==========	=====
* 90 Bromochloromethane						CAS #: 74-97-5		
5.858	5.858 (1.000)	130	194770	25.0000			80.00- 120.00	100.00
5.858	5.858 (1.000)	128	148552				47.29- 107.29	76.27
5.858	5.858 (1.000)	49	312454				122.83- 182.83	160.42
* 108 1,4-Difluorobenzene						CAS #: 540-36-3		
6.750	6.750 (1.000)	114	712592	25.0000			80.00- 120.00	100.00
6.750	6.750 (1.000)	88	107324				0.00- 45.09	15.06
* 153 Chlorobenzene-d5						CAS #: 3114-55-4		
9.207	9.207 (1.000)	117	710524	25.0000			80.00- 120.00	100.00
9.207	9.207 (1.000)	82	377671				23.62- 83.62	53.15
$ 104 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
6.404	6.404 (1.093)	65	247662	25.0000	22.823		80.00- 120.00	100.00
6.404	6.404 (1.093)	67	143595				20.51- 80.51	57.98
$ 134 Toluene-d8						CAS #: 2037-26-5		
7.968	7.968 (1.180)	98	755890	25.0000	26.322		80.00- 120.00	100.00
7.968	7.968 (1.180)	70	88764				0.00- 42.00	11.74

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
$ 134 Toluene-d8 (continued)							
7.968	7.968 (1.180)	100	508599			37.14- 97.14	67.28
$ 170 4-Bromofluorobenzene					CAS #: 460-00-4		
10.195	10.195 (1.107)	174	462477	25.0000	24.895	80.00- 120.00	100.00
10.195	10.195 (1.107)	95	564165			92.25- 152.25	121.99
10.195	10.195 (1.107)	176	430436			63.07- 123.07	93.07
4 Freon 134a					CAS #: 811-97-2		
1.577	1.577 (0.269)	83	233607	50.0000	41.400	80.00- 120.00	100.00
1.577	1.577 (0.269)	69	198489			50.75- 110.75	84.97
1.577	1.577 (0.269)	51	45353			0.00- 49.76	19.41
5 Propylene					CAS #: 115-07-1		
1.619	1.619 (0.276)	41	248262	50.0000	44.969	80.00- 120.00	100.00
1.619	1.619 (0.276)	42	165426			36.66- 96.66	66.63
1.619	1.619 (0.276)	39	176134			44.11- 104.11	70.95
7 1,1-Difluoroethane					CAS #: 75-37-6		
1.633	1.633 (0.279)	65	151736	50.0000	44.088	80.00- 120.00	100.00
1.633	1.633 (0.279)	51	348030			217.13- 277.13	229.37
1.647	1.647 (0.281)	47	99652			48.77- 108.77	65.67
8 Freon 12					CAS #: 75-71-8		
1.661	1.661 (0.283)	85	641162	50.0000	41.496	80.00- 120.00	100.00
1.661	1.661 (0.283)	87	208675			2.35- 62.35	32.55
9 Chlorodifluoromethane					CAS #: 75-45-6		
1.689	1.689 (0.288)	67	65543	50.0000	34.194	80.00- 120.00	100.00
1.689	1.689 (0.288)	51	567405			710.68- 770.68	865.70
10 Freon 114					CAS #: 76-14-2		
1.801	1.801 (0.307)	135	504513	50.0000	42.956	80.00- 120.00	100.00
1.801	1.801 (0.307)	137	162353			2.06- 62.06	32.18
12 Isobutane					CAS #: 75-28-5		
1.815	1.815 (0.310)	43	558165	50.0000	44.654	80.00- 120.00	100.00
1.815	1.815 (0.310)	42	184786			2.70- 62.70	33.11
1.801	1.801 (0.307)	58	18766			0.00- 33.44	3.36
15 Chloromethane					CAS #: 74-87-3		
1.884	1.884 (0.322)	50	281485	50.0000	42.311	80.00- 120.00	100.00
1.884	1.884 (0.322)	52	90084			3.38- 63.38	32.00
18 Butane					CAS #: 106-97-8		
1.968	1.968 (0.336)	58	54073	50.0000	34.474	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
18 Butane (continued)							
1.968	1.968 (0.336)	43	429588			760.51- 820.51	794.46
19 Vinyl Chloride					CAS #: 75-01-4		
2.010	2.010 (0.343)	62	281898	50.0000	38.834	80.00- 120.00	100.00
2.010	2.010 (0.343)	64	84495			0.32- 60.32	29.97
20 1,3-Butadiene					CAS #: 106-99-0		
2.052	2.052 (0.350)	54	257467	50.0000	36.951	80.00- 120.00	100.00
2.038	2.038 (0.348)	39	254507			72.94- 132.94	98.85
24 Bromomethane					CAS #: 74-83-9		
2.458	2.458 (0.420)	94	237220	50.0000	43.781	80.00- 120.00	100.00
2.458	2.458 (0.420)	96	220853			63.18- 123.18	93.10
30 Chloroethane					CAS #: 75-00-3		
2.598	2.598 (0.443)	64	144061	50.0000	44.663	80.00- 120.00	100.00
2.598	2.598 (0.443)	66	43594			1.10- 61.10	30.26
2.598	2.598 (0.443)	49	47059			5.46- 65.46	32.67
31 Isopentane					CAS #: 78-78-4		
2.626	2.626 (0.448)	43	370660	50.0000	44.097	80.00- 120.00	100.00
2.626	2.626 (0.448)	57	244218			36.12- 96.12	65.89
32 Vinyl Bromide					CAS #: 593-60-2		
2.836	2.836 (0.484)	106	248528	50.0000	42.225	80.00- 120.00	100.00
2.836	2.836 (0.484)	108	230729			63.01- 123.01	92.84
33 Freon 11					CAS #: 75-69-4		
2.892	2.892 (0.494)	101	704606	50.0000	41.036	80.00- 120.00	100.00
2.892	2.892 (0.494)	103	457483			36.55- 96.55	64.93
34 Dichlorofluoromethane					CAS #: 75-43-4		
2.906	2.906 (0.496)	67	550876	50.0000	42.114	80.00- 120.00	100.00
2.906	2.906 (0.496)	69	172917			1.82- 61.82	31.39
35 Pentane					CAS #: 109-66-0		
2.976	2.976 (0.508)	43	588821	50.0000	42.455	80.00- 120.00	100.00
2.976	2.976 (0.508)	57	91306			0.00- 45.52	15.51
2.976	2.976 (0.508)	72	46706			0.00- 38.25	7.93
38 Ethyl Ether					CAS #: 60-29-7		
3.326	3.326 (0.568)	74	116983	50.0000	40.717	80.00- 120.00	100.00
3.326	3.326 (0.568)	59	208885			143.51- 203.51	178.56
3.312	3.312 (0.565)	45	219808			143.53- 203.53	187.90

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
39 Ethanol					CAS #: 64-17-5		
3.270	3.270 (0.558)	46	55470	50.0000	41.023	80.00- 120.00	100.00
3.270	3.270 (0.558)	45	106696			213.29- 273.29	192.35
42 Acrolein					CAS #: 107-02-8		
3.591	3.591 (0.613)	55	94659	50.0000	44.120	80.00- 120.00	100.00
3.591	3.591 (0.613)	56	127404			104.02- 164.02	134.59
43 Freon 113					CAS #: 76-13-1		
3.591	3.591 (0.613)	151	483850	50.0000	42.570	80.00- 120.00	100.00
3.591	3.591 (0.613)	153	310087			34.03- 94.03	64.09
3.591	3.591 (0.613)	101	571100			89.72- 149.72	118.03
44 1,1-Dichloroethene					CAS #: 75-35-4		
3.619	3.619 (0.618)	96	267695	50.0000	41.993	80.00- 120.00	100.00
3.619	3.619 (0.618)	98	166148			32.85- 92.85	62.07
3.619	3.619 (0.618)	61	504257			165.91- 225.91	188.37
47 Acetone					CAS #: 67-64-1		
3.773	3.773 (0.644)	58	164011	50.0000	45.582	80.00- 120.00	100.00
3.773	3.773 (0.644)	43	534689			325.09- 385.09	326.01
48 Carbon Disulfide					CAS #: 75-15-0		
3.857	3.857 (0.658)	76	741788	50.0000	45.610	80.00- 120.00	100.00
49 Iodomethane					CAS #: 74-88-4		
3.829	3.829 (0.654)	142	631768	50.0000	45.133	80.00- 120.00	100.00
3.829	3.829 (0.654)	127	282700			16.98- 76.98	44.75
52 2-Propanol					CAS #: 67-63-0		
3.941	3.941 (0.673)	45	611344	50.0000	44.026	80.00- 120.00	100.00
3.941	3.941 (0.673)	43	120151			0.00- 49.76	19.65
54 3-Chloropropene					CAS #: 107-05-1		
4.109	4.109 (0.701)	76	119776	50.0000	42.684	80.00- 120.00	100.00
4.109	4.109 (0.701)	41	451617			344.92- 404.92	377.05
57 Acetonitrile					CAS #: 75-05-8		
4.221	4.221 (0.721)	41	295013	50.0000	47.898	80.00- 120.00	100.00
4.221	4.221 (0.721)	40	152186			24.08- 84.08	51.59
4.221	4.221 (0.721)	38	32788			0.00- 42.84	11.11
59 Methylene Chloride					CAS #: 75-09-2		
4.291	4.291 (0.732)	49	429525	50.0000	47.465	80.00- 120.00	100.00
4.291	4.291 (0.732)	84	240531			27.95- 87.95	56.00
4.291	4.291 (0.732)	51	132108			0.78- 60.78	30.76

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
62 tert-Butyl alcohol					CAS #: 75-65-0		
4.403	4.403 (0.752)	59	699370	50.0000	43.622	80.00- 120.00	100.00
4.403	4.403 (0.752)	41	160995			0.00- 52.58	23.02
4.403	4.403 (0.752)	57	75814			0.00- 40.94	10.84
63 Methyl tert-butyl ether					CAS #: 1634-04-4		
4.515	4.515 (0.771)	73	752667	50.0000	43.071	80.00- 120.00	100.00
4.515	4.515 (0.771)	57	226390			0.00- 58.27	30.08
4.515	4.515 (0.771)	41	226187			0.00- 58.78	30.05
64 trans-1,2-Dichloroethene					CAS #: 156-60-5		
4.543	4.543 (0.775)	98	184087	50.0000	45.476	80.00- 120.00	100.00
4.543	4.543 (0.775)	61	493265			236.85- 296.85	267.95
4.543	4.543 (0.775)	96	289623			126.72- 186.72	157.33
66 Acrylonitrile					CAS #: 107-13-1		
4.655	4.655 (0.795)	52	234453	50.0000	43.809	80.00- 120.00	100.00
4.655	4.655 (0.795)	53	281503			88.92- 148.92	120.07
67 Hexane					CAS #: 110-54-3		
4.753	4.753 (0.811)	57	562821	50.0000	47.726	80.00- 120.00	100.00
4.753	4.753 (0.811)	43	374535			36.74- 96.74	66.55
4.753	4.753 (0.811)	86	69458			0.00- 43.22	12.34
71 1,1-Dichloroethane					CAS #: 75-34-3		
5.047	5.047 (0.861)	63	572525	50.0000	45.824	80.00- 120.00	100.00
5.047	5.047 (0.861)	65	170673			0.56- 60.56	29.81
72 Isopropyl ether					CAS #: 108-20-3		
5.019	5.019 (0.857)	45	1252216	50.0000	48.524	80.00- 120.00	100.00
5.019	5.019 (0.857)	87	256632			0.00- 51.44	20.49
5.019	5.019 (0.857)	59	135519			0.00- 40.81	10.82
73 Vinyl Acetate					CAS #: 108-05-4		
5.075	5.075 (0.866)	86	69803	50.0000	45.096	80.00- 120.00	100.00
5.075	5.075 (0.866)	43	1036354			1473.01-1533.01	1484.68
79 Ethyl-tert-butyl ether					CAS #: 637-92-3		
5.382	5.382 (0.919)	59	1120137	50.0000	47.666	80.00- 120.00	100.00
5.382	5.382 (0.919)	87	375492			4.28- 64.28	33.52
5.382	5.382 (0.919)	41	226197			0.00- 49.94	20.19
84 2,2-Dichloropropane					CAS #: 594-20-7		
5.592	5.592 (0.955)	77	523429	50.0000	44.331	80.00- 120.00	100.00
5.592	5.592 (0.955)	79	170152			2.43- 62.43	32.51
5.592	5.592 (0.955)	97	127736			0.00- 53.03	24.40

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
85 cis-1,2-Dichloroethene					CAS #: 156-59-2		
5.620	5.620 (0.959)	98	202377	50.0000	47.147	80.00- 120.00	100.00
5.620	5.620 (0.959)	96	306785			121.91- 181.91	151.59
5.620	5.620 (0.959)	61	704235			313.72- 373.72	347.98
86 2-Butanone					CAS #: 78-93-3		
5.648	5.648 (0.964)	72	150847	50.0000	48.011	80.00- 120.00	100.00
5.648	5.648 (0.964)	43	1748757			1111.25-1171.25	1159.29
5.648	5.648 (0.964)	57	63665			11.22- 71.22	42.21
87 Ethyl Acetate					CAS #: 141-78-6		
5.662	5.662 (0.967)	45	142534	50.0000	48.422	80.00- 120.00	100.00
5.620	5.620 (0.959)	61	704235			469.17- 529.17	494.08
5.662	5.662 (0.967)	70	81552			29.38- 89.38	57.22
89 Tetrahydrofuran					CAS #: 109-99-9		
5.844	5.844 (0.998)	42	461794	50.0000	48.313	80.00- 120.00	100.00
5.844	5.844 (0.998)	71	132606			0.09- 60.09	28.72
5.844	5.844 (0.998)	72	142922			2.13- 62.13	30.95
92 Chloroform					CAS #: 67-66-3		
5.914	5.914 (1.010)	83	630403	50.0000	45.761	80.00- 120.00	100.00
5.914	5.914 (1.010)	85	405716			34.29- 94.29	64.36
94 Cyclohexane					CAS #: 110-82-7		
6.026	6.026 (1.029)	84	398983	50.0000	47.312	80.00- 120.00	100.00
6.026	6.026 (1.029)	56	627887			116.85- 176.85	157.37
6.026	6.026 (1.029)	41	348359			57.77- 117.77	87.31
96 1,1,1-Trichloroethane					CAS #: 71-55-6		
6.054	6.054 (1.033)	97	657522	50.0000	43.970	80.00- 120.00	100.00
6.054	6.054 (1.033)	99	420375			34.55- 94.55	63.93
97 Carbon Tetrachloride					CAS #: 56-23-5		
6.166	6.166 (1.053)	119	684582	50.0000	46.795	80.00- 120.00	100.00
6.166	6.166 (1.053)	117	710570			74.20- 134.20	103.80
99 1,1-Dichloropropene					CAS #: 563-58-6		
6.194	6.194 (0.918)	110	175312	50.0000	47.848	80.00- 120.00	100.00
6.194	6.194 (0.918)	75	450295			229.39- 289.39	256.85
101 2,2,4-Trimethylpentane					CAS #: 540-84-1		
6.362	6.362 (1.086)	57	1962474	50.0000	52.076	80.00- 120.00	100.00
6.362	6.362 (1.086)	56	649246			1.14- 61.14	33.08
6.348	6.348 (1.084)	41	508388			0.00- 59.12	25.91

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
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102 Benzene					CAS #: 71-43-2		
6.376	6.376 (0.945)	78	883480	50.0000	47.801	80.00- 120.00	100.00
6.376	6.376 (0.945)	77	206627			0.00- 53.48	23.39
105 tert-Amyl methyl ether					CAS #: 994-05-8		
6.432	6.432 (0.953)	87	228085	50.0000	47.496	80.00- 120.00	100.00
6.432	6.432 (0.953)	73	890570			363.80- 423.80	390.46
6.432	6.432 (0.953)	55	306761			97.13- 157.13	134.49
106 1,2-Dichloroethane					CAS #: 107-06-2		
6.460	6.460 (0.957)	62	470866	50.0000	42.744	80.00- 120.00	100.00
6.460	6.460 (0.957)	64	149043			1.41- 61.41	31.65
107 Heptane					CAS #: 142-82-5		
6.516	6.516 (0.965)	71	361013	50.0000	50.187	80.00- 120.00	100.00
6.516	6.516 (0.965)	43	678985			146.45- 206.45	188.08
6.516	6.516 (0.965)	57	466191			90.20- 150.20	129.13
110 n-Butanol					CAS #: 71-36-3		
6.886	6.886 (1.020)	56	321352	50.0000	50.397	80.00- 120.00	100.00
6.886	6.886 (1.020)	41	236828			44.46- 104.46	73.70
6.886	6.886 (1.020)	43	189177			28.14- 88.14	58.87
111 Trichloroethene					CAS #: 79-01-6		
6.950	6.950 (1.030)	95	431470	50.0000	47.756	80.00- 120.00	100.00
6.950	6.950 (1.030)	130	474496			79.68- 139.68	109.97
6.943	6.943 (1.029)	97	281721			34.74- 94.74	65.29
114 1,2-Dichloropropane					CAS #: 78-87-5		
7.187	7.187 (1.065)	63	426025	50.0000	51.495	80.00- 120.00	100.00
7.187	7.187 (1.065)	62	299003			40.55- 100.55	70.18
7.187	7.187 (1.065)	41	248088			36.07- 96.07	58.23
116 Methyl Methacrylate					CAS #: 80-62-6		
7.230	7.230 (0.785)	69	362112	50.0000	47.658	80.00- 120.00	100.00
7.230	7.230 (0.785)	41	664250			160.67- 220.67	183.44
7.230	7.230 (0.785)	100	145070			11.33- 71.33	40.06
117 1,4-Dioxane					CAS #: 123-91-1		
7.266	7.266 (1.076)	88	245246	50.0000	47.346	80.00- 120.00	100.00
7.266	7.266 (1.076)	58	223965			56.19- 116.19	91.32
7.266	7.266 (1.076)	57	77599			0.00- 59.32	31.64
118 Dibromomethane					CAS #: 74-95-3		
7.294	7.294 (0.792)	174	411112	50.0000	45.813	80.00- 120.00	100.00
7.294	7.294 (0.792)	93	388998			66.88- 126.88	94.62

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
118 Dibromomethane (continued)							
7.294	7.294 (0.792)	95	325411			49.90- 109.90	79.15
122 Bromodichloromethane					CAS #: 75-27-4		
7.409	7.409 (1.098)	83	707647	50.0000	46.833	80.00- 120.00	100.00
7.409	7.409 (1.098)	85	451359			33.85- 93.85	63.78
126 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.781	7.781 (1.153)	75	568258	50.0000	49.388	80.00- 120.00	100.00
7.781	7.781 (1.153)	77	180381			1.50- 61.50	31.74
7.781	7.781 (1.153)	39	365045			43.12- 103.12	64.24
127 Methylcyclohexane					CAS #: 108-87-2		
7.051	7.051 (1.045)	83	569103	50.0000	49.905	80.00- 120.00	100.00
7.051	7.051 (1.045)	98	261979			17.10- 77.10	46.03
7.051	7.051 (1.045)	55	606639			71.11- 131.11	106.60
131 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.889	7.889 (1.169)	58	392647	50.0000	48.959	80.00- 120.00	100.00
7.889	7.889 (1.169)	43	1075512			247.84- 307.84	273.91
7.889	7.889 (1.169)	85	140116			8.73- 68.73	35.68
137 Toluene					CAS #: 108-88-3		
8.025	8.025 (1.189)	91	1256095	50.0000	51.145	80.00- 120.00	100.00
8.025	8.025 (1.189)	92	734342			28.13- 88.13	58.46
136 Octane					CAS #: 111-65-9		
8.011	8.011 (1.187)	57	446222	50.0000	54.020	80.00- 120.00	100.00
8.011	8.011 (1.187)	85	401480			67.77- 127.77	89.97
8.011	8.011 (1.187)	43	1149310			225.27- 285.27	257.56
139 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
8.254	8.254 (0.897)	75	546042	50.0000	45.423	80.00- 120.00	100.00
8.254	8.254 (0.897)	77	174170			1.93- 61.93	31.90
8.254	8.254 (0.897)	39	338738			38.37- 98.37	62.04
141 1,1,2-Trichloroethane					CAS #: 79-00-5		
8.412	8.412 (0.914)	97	434279	50.0000	48.407	80.00- 120.00	100.00
8.412	8.412 (0.914)	99	268569			31.66- 91.66	61.84
8.412	8.412 (0.914)	83	360076			55.24- 115.24	82.91
142 Tetrachloroethene					CAS #: 127-18-4		
8.462	8.462 (0.919)	166	624690	50.0000	47.745	80.00- 120.00	100.00
8.462	8.462 (0.919)	129	487477			48.51- 108.51	78.04
8.462	8.462 (0.919)	131	470978			45.64- 105.64	75.39

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
143 2-Hexanone					CAS #: 591-78-6		
8.576	8.576 (0.932)	58	580140	50.0000	45.885	80.00- 120.00	100.00
8.576	8.576 (0.932)	43	1137482			169.24- 229.24	196.07
8.576	8.576 (0.932)	100	101362			0.00- 48.72	17.47
144 1,3-Dichloropropane					CAS #: 142-28-9		
8.562	8.562 (1.268)	76	598134	50.0000	49.295	80.00- 120.00	100.00
8.569	8.569 (1.270)	41	710206			96.83- 156.83	118.74
8.562	8.562 (1.268)	78	195771			2.46- 62.46	32.73
146 Dibromochloromethane					CAS #: 124-48-1		
8.734	8.734 (0.949)	129	849679	50.0000	47.469	80.00- 120.00	100.00
8.734	8.734 (0.949)	127	658530			47.05- 107.05	77.50
148 1,2-Dibromoethane (EDB)					CAS #: 106-93-4		
8.856	8.856 (0.962)	107	686718	50.0000	46.988	80.00- 120.00	100.00
8.856	8.856 (0.962)	109	646543			64.74- 124.74	94.15
151 1-Bromo-2-Chloroethane					CAS #: 107-04-0		
7.702	7.702 (1.141)	63	805675	50.0000	54.369	80.00- 120.00	100.00
7.702	7.702 (1.141)	65	241381			0.05- 60.05	29.96
7.702	7.702 (1.141)	144	80779			0.00- 40.91	10.03
154 Chlorobenzene					CAS #: 108-90-7		
9.228	9.228 (1.002)	112	1080741	50.0000	48.490	80.00- 120.00	100.00
9.228	9.228 (1.002)	114	341867			2.19- 62.19	31.63
9.228	9.228 (1.002)	77	574120			23.66- 83.66	53.12
155 Ethyl Benzene					CAS #: 100-41-4		
9.278	9.278 (1.008)	106	543834	50.0000	49.271	80.00- 120.00	100.00
9.278	9.278 (1.008)	91	1687740			282.43- 342.43	310.34
156 Nonane					CAS #: 111-84-2		
9.278	9.278 (1.008)	43	1214686	50.0000	54.614	80.00- 120.00	100.00
9.278	9.278 (1.008)	57	1025170			55.73- 115.73	84.40
9.278	9.278 (1.008)	85	316007			0.00- 58.99	26.02
157 1,1,1,2-Tetrachloroethane					CAS #: 630-20-6		
9.300	9.300 (1.010)	131	1535	50.0000	0.1241	80.00- 120.00	100.00(a)
9.207	9.207 (1.000)	117	710524			38.22- 98.22	46288.21
9.293	9.293 (1.009)	95	520			7.54- 67.54	33.88
158 m,p-Xylene					CAS #: 108-38-3		
9.371	9.371 (1.018)	106	667893	50.0000	49.268	80.00- 120.00	100.00
9.371	9.371 (1.018)	91	1319049			169.66- 229.66	197.49

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
164 o-Xylene					CAS #: 95-47-6		
9.722	9.722 (1.056)	106	636121	50.0000	49.488	80.00- 120.00	100.00
9.722	9.722 (1.056)	91	1319895			180.55- 240.55	207.49
165 Styrene					CAS #: 100-42-5		
9.737	9.737 (1.058)	104	1100476	50.0000	49.440	80.00- 120.00	100.00
9.737	9.737 (1.058)	78	507588			18.65- 78.65	46.12
167 Bromoform					CAS #: 75-25-2		
9.945	9.945 (1.080)	173	813401	50.0000	47.905	80.00- 120.00	100.00
9.945	9.945 (1.080)	171	416642			21.64- 81.64	51.22
168 Cumene					CAS #: 98-82-8		
10.009	10.009 (1.087)	105	2011383	50.0000	49.264	80.00- 120.00	100.00
10.009	10.009 (1.087)	120	544169			0.00- 57.04	27.05
10.002	10.002 (1.086)	51	240445			0.00- 41.95	11.95
169 Cyclohexanone					CAS #: 108-94-1		
10.181	10.181 (1.106)	55	615819	50.0000	33.203	80.00- 120.00	100.00
10.181	10.181 (1.106)	98	214747			8.59- 68.59	34.87
10.181	10.181 (1.106)	42	428165			46.18- 106.18	69.53
175 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
10.317	10.317 (1.121)	83	982421	50.0000	49.359	80.00- 120.00	100.00
10.317	10.317 (1.121)	85	632012			34.44- 94.44	64.33
177 Bromobenzene					CAS #: 108-86-1		
10.338	10.338 (1.123)	156	644760	50.0000	49.668	80.00- 120.00	100.00
10.338	10.338 (1.123)	158	629152			67.20- 127.20	97.58
10.338	10.338 (1.123)	77	1055089			131.36- 191.36	163.64
178 Propylbenzene					CAS #: 103-65-1		
10.360	10.360 (1.125)	120	575157	50.0000	49.074	80.00- 120.00	100.00
10.353	10.353 (1.124)	91	2388956			385.23- 445.23	415.36
10.360	10.360 (1.125)	105	91878			0.00- 46.02	15.97
179 1,2,3-Trichloropropane					CAS #: 96-18-4		
10.381	10.381 (1.128)	110	303459	50.0000	47.406	80.00- 120.00	100.00
10.381	10.381 (1.128)	75	1006161			301.57- 361.57	331.56
10.381	10.381 (1.128)	61	266102			54.32- 114.32	87.69
181 trans-1,4-Dichloro-2-butene					CAS #: 110-57-6		
10.374	10.374 (1.127)	53	219656	50.0000	43.090	80.00- 120.00	100.00
10.374	10.374 (1.127)	89	152314			40.38- 100.38	69.34
10.381	10.381 (1.128)	75	1006161			394.61- 454.61	458.06

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
182 Decane					CAS #: 124-18-5		
10.396	10.396 (1.129)	57	1365478	50.0000	51.223	80.00- 120.00	100.00
10.396	10.396 (1.129)	71	418154			2.98- 62.98	30.62
10.396	10.396 (1.129)	142	61757			0.00- 35.12	4.52
183 4-Ethyltoluene					CAS #: 622-96-8		
10.453	10.453 (1.135)	120	620187	50.0000	49.011	80.00- 120.00	100.00
10.453	10.453 (1.135)	105	2031006			295.29- 355.29	327.48
184 2-Chlorotoluene					CAS #: 95-49-8		
10.482	10.482 (1.138)	126	517771	50.0000	49.212	80.00- 120.00	100.00
10.482	10.482 (1.138)	91	1812522			325.01- 385.01	350.06
10.482	10.482 (1.138)	65	238813			19.90- 79.90	46.12
185 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
10.503	10.503 (1.141)	120	882244	50.0000	49.980	80.00- 120.00	100.00
10.503	10.503 (1.141)	105	1770551			176.14- 236.14	200.69
188 alpha Methyl Styrene					CAS #: 98-83-9		
10.704	10.704 (1.163)	118	867958	50.0000	49.354	80.00- 120.00	100.00
10.704	10.704 (1.163)	103	492401			26.69- 86.69	56.73
189 tert-Butylbenzene					CAS #: 98-06-6		
10.783	10.783 (1.171)	119	1627913	50.0000	49.240	80.00- 120.00	100.00
10.783	10.783 (1.171)	134	407568			0.00- 54.52	25.04
10.783	10.783 (1.171)	91	1048426			34.68- 94.68	64.40
190 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
10.833	10.833 (1.177)	105	1708711	50.0000	49.877	80.00- 120.00	100.00
10.833	10.833 (1.177)	120	809446			17.12- 77.12	47.37
192 sec-Butylbenzene					CAS #: 135-98-8		
10.969	10.969 (1.191)	134	520343	50.0000	47.655	80.00- 120.00	100.00
10.969	10.969 (1.191)	105	2495217			438.96- 498.96	479.53
10.969	10.969 (1.191)	91	384047			44.37- 104.37	73.81
194 p-Cymene					CAS #: 99-87-6		
11.083	11.083 (1.204)	119	2209472	50.0000	49.135	80.00- 120.00	100.00
11.083	11.083 (1.204)	134	592515			0.00- 56.91	26.82
11.076	11.076 (1.203)	91	496970			0.00- 53.86	22.49
195 1,3-Dichlorobenzene					CAS #: 541-73-1		
11.134	11.134 (1.209)	146	1200461	50.0000	49.139	80.00- 120.00	100.00
11.134	11.134 (1.209)	148	766459			33.78- 93.78	63.85
11.126	11.126 (1.208)	111	494310			11.40- 71.40	41.18

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
196 1,4-Dichlorobenzene					CAS #: 106-46-7		
11.212	11.212 (1.218)	146	1229273	50.0000	49.398	80.00- 120.00	100.00
11.212	11.212 (1.218)	148	776505			33.73- 93.73	63.17
11.212	11.212 (1.218)	111	480563			9.40- 69.40	39.09
199 alpha-Chlorotoluene					CAS #: 100-44-7		
11.327	11.327 (1.230)	91	1632937	50.0000	48.190	80.00- 120.00	100.00
11.327	11.327 (1.230)	126	369527			0.00- 52.58	22.63
201 Undecane					CAS #: 1120-21-4		
11.399	11.399 (1.238)	57	1589834	50.0000	53.081	80.00- 120.00	100.00
11.399	11.399 (1.238)	43	1449190			62.03- 122.03	91.15
202 Butylbenzene					CAS #: 104-51-8		
11.434	11.434 (1.242)	134	581206	50.0000	48.312	80.00- 120.00	100.00
11.434	11.434 (1.242)	91	2046043			322.91- 382.91	352.03
11.434	11.434 (1.242)	92	1092343			155.43- 215.43	187.94
204 1,2-Dichlorobenzene					CAS #: 95-50-1		
11.549	11.549 (1.254)	146	1167338	50.0000	49.329	80.00- 120.00	100.00
11.549	11.549 (1.254)	148	739826			33.66- 93.66	63.38
11.549	11.549 (1.254)	111	494350			12.36- 72.36	42.35
206 1,2-Dibromo-3-chloropropane					CAS #: 96-12-8		
12.258	12.258 (1.331)	157	697429	50.0000	47.938	80.00- 120.00	100.00
12.251	12.251 (1.331)	75	576025			56.77- 116.77	82.59
12.258	12.258 (1.331)	155	534608			48.17- 108.17	76.65
207 Dodecane					CAS #: 112-40-3		
12.351	12.351 (1.342)	57	1471743	61.8000	55.035	80.00- 120.00	100.00
12.351	12.351 (1.342)	43	1240323			56.62- 116.62	84.28
213 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
13.039	13.039 (1.416)	180	1001224	62.9500	54.411	80.00- 120.00	100.00
13.039	13.039 (1.416)	182	953295			64.88- 124.88	95.21
215 Hexachlorobutadiene					CAS #: 87-68-3		
13.132	13.132 (1.426)	225	764677	64.3500	57.546	80.00- 120.00	100.00
13.132	13.132 (1.426)	223	491267			33.46- 93.46	64.25
216 Naphthalene					CAS #: 91-20-3		
13.340	13.340 (1.449)	128	238130	6.35000	4.697	80.00- 120.00	100.00
13.340	13.340 (1.449)	127	32061			0.00- 43.71	13.46
222 1,2,3-Trichlorobenzene					CAS #: 87-61-6		
13.612	13.612 (1.478)	180	904219	66.5500	52.896	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
222 1,2,3-Trichlorobenzene (continued)							
13.612	13.612 (1.478)	182	866253			66.23- 126.23	95.80
13.612	13.612 (1.478)	145	326410			5.93- 65.93	36.10

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

US32TAR1

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd3.i Injection Date: 09-SEP-2021 11:39
Lab File ID: 3090903.d Init. Cal. Date(s): 12-AUG-2021 02-SEP-2021
Analysis Type: AIR Init. Cal. Times: 16:21 10:33
Lab Sample ID: CCV Quant Type: ISTD
Method: /chem/msd3.i/09SEP21.b/321q0812b.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	MIN %D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
$ 104 1,2-Dichloroethane-d4	1.39287	1.27156	0.010	8.70944	30.00000	Averaged	
$ 134 Toluene-d8	1.00748	1.06076	0.010	-5.28885	30.00000	Averaged	
$ 170 4-Bromofluorobenzene	0.65365	0.65090	0.010	0.42100	30.00000	Averaged	
4 Freon 134a	0.72428	0.59970	0.010	17.20055	30.00000	Averaged	
5 Propylene	0.70862	0.63732	0.010	10.06230	30.00000	Averaged	
7 1,1-Difluoroethane	0.44176	0.38953	0.010	11.82411	30.00000	Averaged	
8 Freon 12	1.98325	1.64595	0.010	17.00741	30.00000	Averaged	
9 Chlorodifluoromethane	0.24603	0.16826	0.010	31.61195	30.00000	Averaged	<-
10 Freon 114	1.50754	1.29515	0.010	14.08869	30.00000	Averaged	
12 Isobutane	1.60442	1.43288	0.010	10.69154	30.00000	Averaged	
15 Chloromethane	0.85392	0.72261	0.010	15.37704	30.00000	Averaged	
18 Butane	0.20133	0.13881	0.010	31.05128	30.00000	Averaged	<-
19 Vinyl Chloride	0.93174	0.72367	0.010	22.33182	30.00000	Averaged	
20 1,3-Butadiene	0.89435	0.66095	0.010	26.09737	30.00000	Averaged	
24 Bromomethane	0.69548	0.60897	0.010	12.43802	30.00000	Averaged	
30 Chloroethane	0.41401	0.36982	0.010	10.67349	30.00000	Averaged	
31 Isopentane	1.07891	0.95153	0.010	11.80641	30.00000	Averaged	
32 Vinyl Bromide	0.75548	0.63800	0.010	15.55027	30.00000	Averaged	
33 Freon 11	2.20391	1.80882	0.010	17.92704	30.00000	Averaged	
34 Dichlorofluoromethane	1.67898	1.41417	0.010	15.77183	30.00000	Averaged	
35 Pentane	1.78021	1.51158	0.010	15.08966	30.00000	Averaged	
38 Ethyl Ether	0.36878	0.30031	0.010	18.56613	30.00000	Averaged	
39 Ethanol	0.17356	0.14240	0.010	17.95393	30.00000	Averaged	
42 Acrolein	0.27539	0.24300	0.010	11.75945	30.00000	Averaged	
43 Freon 113	1.45888	1.24211	0.010	14.85907	30.00000	Averaged	
44 1,1-Dichloroethene	0.81824	0.68721	0.010	16.01348	30.00000	Averaged	
47 Acetone	0.46185	0.42104	0.010	8.83697	30.00000	Averaged	
48 Carbon Disulfide	2.08757	1.90427	0.010	8.78083	30.00000	Averaged	
49 Iodomethane	1.79673	1.62183	0.010	9.73423	30.00000	Averaged	
52 2-Propanol	1.78234	1.56940	0.010	11.94705	30.00000	Averaged	
54 3-Chloropropene	0.36018	0.30748	0.010	14.63258	30.00000	Averaged	
57 Acetonitrile	0.79058	0.75734	0.010	4.20481	30.00000	Averaged	
59 Methylene Chloride	1.16153	1.10265	0.010	5.06986	30.00000	Averaged	
62 tert-Butyl alcohol	2.05789	1.79537	0.010	12.75650	30.00000	Averaged	
63 Methyl tert-butyl ether	2.24304	1.93219	0.010	13.85809	30.00000	Averaged	

US32TAR1

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd3.i Injection Date: 09-SEP-2021 11:39
Lab File ID: 3090903.d Init. Cal. Date(s): 12-AUG-2021 02-SEP-2021
Analysis Type: AIR Init. Cal. Times: 16:21 10:33
Lab Sample ID: CCV Quant Type: ISTD
Method: /chem/msd3.i/09SEP21.b/321q0812b.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	MIN %D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
64 trans-1,2-Dichloroethene	0.51959	0.47258	0.010	9.04815	30.00000	Averaged
66 Acrylonitrile	0.68693	0.60187	0.010	12.38278	30.00000	Averaged
67 Hexane	1.51368	1.44483	0.010	4.54821	30.00000	Averaged
71 1,1-Dichloroethane	1.60370	1.46975	0.010	8.35284	30.00000	Averaged
72 Isopropyl ether	3.31239	3.21460	0.010	2.95222	30.00000	Averaged
73 Vinyl Acetate	0.19868	0.17919	0.010	9.80864	30.00000	Averaged
79 Ethyl-tert-butyl ether	3.01631	2.87554	0.010	4.66694	30.00000	Averaged
84 2,2-Dichloropropane	1.51554	1.34371	0.010	11.33761	30.00000	Averaged
85 cis-1,2-Dichloroethene	0.55097	0.51953	0.010	5.70638	30.00000	Averaged
86 2-Butanone	0.40329	0.38724	0.010	3.97810	30.00000	Averaged
87 Ethyl Acetate	0.37783	0.36590	0.010	3.15611	30.00000	Averaged
89 Tetrahydrofuran	1.22688	1.18549	0.010	3.37423	30.00000	Averaged
92 Chloroform	1.76824	1.61833	0.010	8.47815	30.00000	Averaged
94 Cyclohexane	1.08243	1.02424	0.010	5.37611	30.00000	Averaged
96 1,1,1-Trichloroethane	1.91943	1.68794	0.010	12.06028	30.00000	Averaged
97 Carbon Tetrachloride	1.87779	1.75741	0.010	6.41070	30.00000	Averaged
99 1,1-Dichloropropene	0.12854	0.12301	0.010	4.30380	30.00000	Averaged
101 2,2,4-Trimethylpentane	4.83712	5.03793	0.010	-4.15130	30.00000	Averaged
102 Benzene	0.64843	0.61991	0.010	4.39825	30.00000	Averaged
105 tert-Amyl methyl ether	0.16848	0.16004	0.010	5.00785	30.00000	Averaged
106 1,2-Dichloroethane	0.38648	0.33039	0.010	14.51240	30.00000	Averaged
107 Heptane	0.25236	0.25331	0.010	-0.37443	30.00000	Averaged
110 n-Butanol	0.22370	0.22548	0.010	-0.79411	30.00000	Averaged
111 Trichloroethene	0.31697	0.30275	0.010	4.48688	30.00000	Averaged
114 1,2-Dichloropropane	0.29025	0.29893	0.010	-2.99026	30.00000	Averaged
116 Methyl Methacrylate	0.26734	0.25482	0.010	4.68418	30.00000	Averaged
117 1,4-Dioxane	0.18172	0.17208	0.010	5.30705	30.00000	Averaged
118 Dibromomethane	0.31574	0.28930	0.010	8.37458	30.00000	Averaged
122 Bromodichloromethane	0.53011	0.49653	0.010	6.33378	30.00000	Averaged
126 cis-1,3-Dichloropropene	0.40367	0.39873	0.010	1.22400	30.00000	Averaged
127 Methylcyclohexane	0.40008	0.39932	0.010	0.19064	30.00000	Averaged
131 4-Methyl-2-pentanone	0.28136	0.27551	0.010	2.08204	30.00000	Averaged
137 Toluene	0.86162	0.88136	0.010	-2.29041	30.00000	Averaged
136 Octane	0.28980	0.31310	0.010	-8.03931	30.00000	Averaged
139 trans-1,3-Dichloropropene	0.42297	0.38425	0.010	9.15408	30.00000	Averaged

US32TAR1

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd3.i Injection Date: 09-SEP-2021 11:39
Lab File ID: 3090903.d Init. Cal. Date(s): 12-AUG-2021 02-SEP-2021
Analysis Type: AIR Init. Cal. Times: 16:21 10:33
Lab Sample ID: CCV Quant Type: ISTD
Method: /chem/msd3.i/09SEP21.b/321q0812b.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
141 1,1,2-Trichloroethane	0.31566	0.30560	0.010	3.18563	30.00000	Averaged	
142 Tetrachloroethene	0.46036	0.43960	0.010	4.50934	30.00000	Averaged	
143 2-Hexanone	0.44486	0.40825	0.010	8.22900	30.00000	Averaged	
144 1,3-Dichloropropane	0.42569	0.41969	0.010	1.41038	30.00000	Averaged	
146 Dibromochloromethane	0.62981	0.59792	0.010	5.06278	30.00000	Averaged	
148 1,2-Dibromoethane (EDB)	0.51423	0.48325	0.010	6.02447	30.00000	Averaged	
151 1-Bromo-2-Chloroethane	0.51989	0.56531	0.010	-8.73797	30.00000	Averaged	
154 Chlorobenzene	0.78420	0.76052	0.010	3.01916	30.00000	Averaged	
155 Ethyl Benzene	0.38836	0.38270	0.010	1.45835	30.00000	Averaged	
156 Nonane	0.78257	0.85478	0.010	-9.22743	30.00000	Averaged	
157 1,1,1,2-Tetrachloroethane	0.43505	0.00108	0.010	100	30.00000	Averaged	<-
158 m,p-Xylene	0.47698	0.47000	0.010	1.46293	30.00000	Averaged	
164 o-Xylene	0.45228	0.44764	0.010	1.02454	30.00000	Averaged	
165 Styrene	0.78319	0.77441	0.010	1.12065	30.00000	Averaged	
167 Bromoform	0.59742	0.57240	0.010	4.18926	30.00000	Averaged	
168 Cumene	1.43656	1.41542	0.010	1.47140	30.00000	Averaged	
169 Cyclohexanone	0.65259	0.43336	0.010	33.59433	30.00000	Averaged	<-
175 1,1,2,2-Tetrachloroethane	0.70031	0.69134	0.010	1.28107	30.00000	Averaged	
177 Bromobenzene	0.45675	0.45372	0.010	0.66403	30.00000	Averaged	
178 Propylbenzene	0.41238	0.40474	0.010	1.85192	30.00000	Averaged	
179 1,2,3-Trichloropropane	0.22523	0.21355	0.010	5.18873	30.00000	Averaged	
181 trans-1,4-Dichloro-2-butene	0.17936	0.15457	0.010	13.81944	30.00000	Averaged	
182 Decane	0.93796	0.96090	0.010	-2.44575	30.00000	Averaged	
183 4-Ethyltoluene	0.44523	0.43643	0.010	1.97741	30.00000	Averaged	
184 2-Chlorotoluene	0.37019	0.36436	0.010	1.57532	30.00000	Averaged	
185 1,3,5-Trimethylbenzene	0.62108	0.62084	0.010	0.03903	30.00000	Averaged	
188 alpha Methyl Styrene	0.61878	0.61079	0.010	1.29113	30.00000	Averaged	
189 tert-Butylbenzene	1.16325	1.14557	0.010	1.51962	30.00000	Averaged	
190 1,2,4-Trimethylbenzene	1.20539	1.20243	0.010	0.24551	30.00000	Averaged	
192 sec-Butylbenzene	0.38419	0.36617	0.010	4.69075	30.00000	Averaged	
194 p-Cymene	1.58218	1.55482	0.010	1.72931	30.00000	Averaged	
195 1,3-Dichlorobenzene	0.85957	0.84477	0.010	1.72153	30.00000	Averaged	
196 1,4-Dichlorobenzene	0.87559	0.86505	0.010	1.20395	30.00000	Averaged	
199 alpha-Chlorotoluene	1.19226	1.14911	0.010	3.61926	30.00000	Averaged	
201 Undecane	1.05383	1.11878	0.010	-6.16271	30.00000	Averaged	

US32TAR1

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd3.i Injection Date: 09-SEP-2021 11:39
Lab File ID: 3090903.d Init. Cal. Date(s): 12-AUG-2021 02-SEP-2021
Analysis Type: AIR Init. Cal. Times: 16:21 10:33
Lab Sample ID: CCV Quant Type: ISTD
Method: /chem/msd3.i/09SEP21.b/321q0812b.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
202 Butylbenzene	0.42329	0.40900	0.010	3.37583	30.00000	Averaged
204 1,2-Dichlorobenzene	0.83263	0.82146	0.010	1.34116	30.00000	Averaged
206 1,2-Dibromo-3-chloropropane	0.51190	0.49078	0.010	4.12412	30.00000	Averaged
207 Dodecane	0.94093	0.83792	0.010	10.94680	30.00000	Averaged
213 1,2,4-Trichlorobenzene	0.64745	0.55962	0.010	13.56520	30.00000	Averaged
215 Hexachlorobutadiene	0.46755	0.41811	0.010	10.57375	30.00000	Averaged
216 Naphthalene	1.78393	1.31948	0.010	26.03558	30.00000	Averaged
222 1,2,3-Trichlorobenzene	0.60147	0.47806	0.010	20.51744	30.00000	Averaged

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd3.i
Lab File ID: 3090903.d
Lab Smp Id: CCV
Analysis Type: VOA
Quant Type: ISTD
Operator: LD
Method File: /chem/msd3.i/09SEP21.b/321q0812b.m
Misc Info: 50ppbv (100ppbv)

Calibration Date: 09-SEP-2021
Calibration Time: 11:39
Client Smp ID: CCV
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	194770	116862	272678	194770	0.00
108 1,4-Difluorobenze	712592	427555	997629	712592	0.00
153 Chlorobenzene-d5	710524	426314	994734	710524	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.86	5.53	6.19	5.86	0.00
108 1,4-Difluorobenze	6.75	6.42	7.08	6.75	0.00
153 Chlorobenzene-d5	9.21	8.88	9.54	9.21	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msd3.i/09SEP21.b/3090903.d

Page 1

Date : 09-SEP-2021 11:39

Client ID: CCV

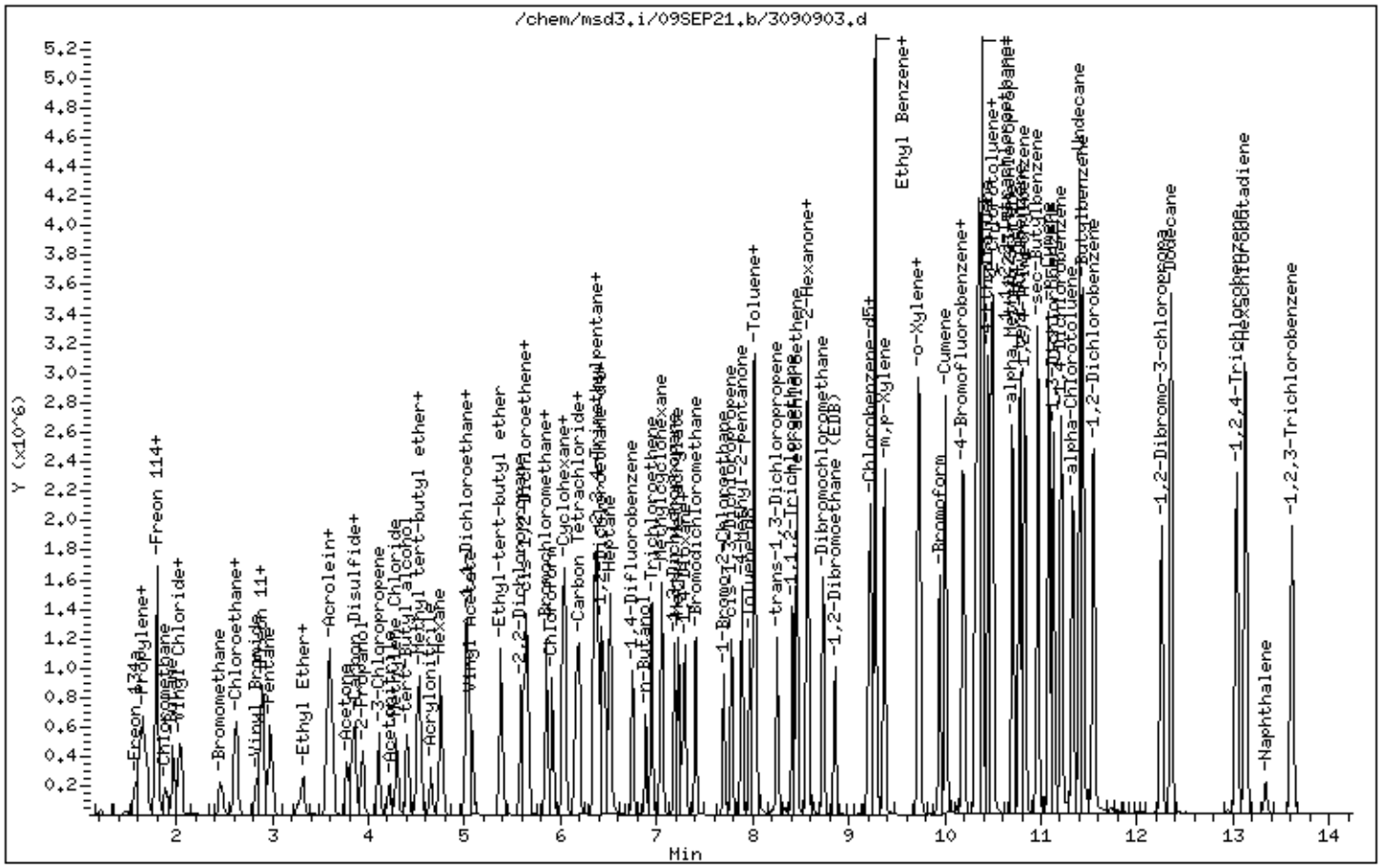
Instrument: msd3.i

Sample Info: 100mL 3018-2213A

Operator: LD

Column phase: RTX-624

Column diameter: 0.25



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Client ID:	LCS		
Lab ID:	2108676B-05A	**Date/Time Analyzed:**	9/9/21 12:07 PM
Date/Time Collected:	NA - Not Applicable	**Dilution Factor:**	1.00
Media:	NA - Not Applicable	**Instrument/Filename:**	msd3.i / 3090904

Compound	CAS#	%Recovery
1,1,1-Trichloroethane	71-55-6	91
1,1,2,2-Tetrachloroethane	79-34-5	100
1,1,2-Trichloroethane	79-00-5	98
1,1-Dichloroethane	75-34-3	93
1,1-Dichloroethene	75-35-4	88
1,2,4-Trichlorobenzene	120-82-1	99
1,2,4-Trimethylbenzene	95-63-6	104
1,2-Dibromoethane (EDB)	106-93-4	98
1,2-Dichlorobenzene	95-50-1	100
1,2-Dichloroethane	107-06-2	88
1,2-Dichloropropane	78-87-5	107
1,3,5-Trimethylbenzene	108-67-8	101
1,3-Butadiene	106-99-0	66 Q
1,3-Dichlorobenzene	541-73-1	101
1,4-Dichlorobenzene	106-46-7	101
1,4-Dioxane	123-91-1	94
2,2,4-Trimethylpentane	540-84-1	108
2-Butanone (Methyl Ethyl Ketone)	78-93-3	98
2-Hexanone	591-78-6	89
2-Propanol	67-63-0	97
3-Chloropropene	107-05-1	90
4-Ethyltoluene	622-96-8	103
4-Methyl-2-pentanone	108-10-1	100
Acetone	67-64-1	94

* % Recovery is calculated using unrounded analytical results.

eurofins | Air Toxics

Client ID:	LCS		
Lab ID:	2108676B-05A	**Date/Time Analyzed:**	9/9/21 12:07 PM
Date/Time Collected:	NA - Not Applicable	**Dilution Factor:**	1.00
Media:	NA - Not Applicable	**Instrument/Filename:**	msd3.i / 3090904

Compound	CAS#	%Recovery
alpha-Chlorotoluene	100-44-7	101
Benzene	71-43-2	99
Bromodichloromethane	75-27-4	98
Bromoform	75-25-2	100
Bromomethane	74-83-9	85
Carbon Disulfide	75-15-0	94
Carbon Tetrachloride	56-23-5	97
Chlorobenzene	108-90-7	101
Chloroethane	75-00-3	94
Chloroform	67-66-3	94
Chloromethane	74-87-3	83
cis-1,2-Dichloroethene	156-59-2	97
cis-1,3-Dichloropropene	10061-01-5	104
Cumene	98-82-8	101
Cyclohexane	110-82-7	99
Dibromochloromethane	124-48-1	98
Ethanol	64-17-5	75
Ethyl Benzene	100-41-4	102
Freon 11	75-69-4	85
Freon 113	76-13-1	88
Freon 114	76-14-2	88
Freon 12	75-71-8	85
Heptane	142-82-5	92
Hexachlorobutadiene	87-68-3	106

* % Recovery is calculated using unrounded analytical results.

Client ID:	LCS		
Lab ID:	2108676B-05A	**Date/Time Analyzed:**	9/9/21 12:07 PM
Date/Time Collected:	NA - Not Applicable	**Dilution Factor:**	1.00
Media:	NA - Not Applicable	**Instrument/Filename:**	msd3.i / 3090904

Compound	CAS#	%Recovery
Hexane	110-54-3	100
m,p-Xylene	108-38-3	104
Methyl tert-butyl ether	1634-04-4	91
Methylene Chloride	75-09-2	95
Naphthalene	91-20-3	88
o-Xylene	95-47-6	102
Propylbenzene	103-65-1	101
Propylene	115-07-1	92
Styrene	100-42-5	102
Tetrachloroethene	127-18-4	98
Tetrahydrofuran	109-99-9	100
Toluene	108-88-3	104
trans-1,2-Dichloroethene	156-60-5	93
trans-1,3-Dichloropropene	10061-02-6	96
Trichloroethene	79-01-6	100
Vinyl Acetate	108-05-4	94
Vinyl Chloride	75-01-4	71

Q = Exceeds Quality Control limits.
D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	89
4-Bromofluorobenzene	460-00-4	70-130	100
Toluene-d8	2037-26-5	70-130	106

* % Recovery is calculated using unrounded analytical results.

US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msd3.i/09SEP21.b/3090904.d
Lab Smp Id: LCS Client Smp ID: LCS
Inj Date : 09-SEP-2021 12:07
Operator : LD Inst ID: msd3.i
Smp Info : 50mL 3018-2169
Misc Info : 50ppbv (200ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msd3.i/09SEP21.b/321q0812b.m
Meth Date : 09-Sep-2021 15:48 lk8g Quant Type: ISTD
Cal Date : 02-SEP-2021 10:33 Cal File: 3090203.d
Als bottle: 14 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT20LCS_new.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE		(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 90 Bromochloromethane							CAS #: 74-97-5	
5.858	5.858 (1.000)	130	217543	25.0000			80.00- 120.00	100.00
5.858	5.858 (1.000)	128	168149				47.29- 107.29	77.29
5.858	5.858 (1.000)	49	358882				122.83- 182.83	164.97
* 108 1,4-Difluorobenzene							CAS #: 540-36-3	
6.743	6.750 (1.000)	114	800957	25.0000			80.00- 120.00	100.00
6.743	6.750 (1.000)	88	121353				0.00- 45.09	15.15
* 153 Chlorobenzene-d5							CAS #: 3114-55-4	
9.207	9.207 (1.000)	117	794198	25.0000			80.00- 120.00	100.00
9.207	9.207 (1.000)	82	427233				23.62- 83.62	53.79
$ 104 1,2-Dichloroethane-d4							CAS #: 17060-07-0	
6.390	6.404 (1.091)	65	271034	22.3618	22.362		80.00- 120.00	100.00
6.390	6.404 (1.091)	67	148362				20.51- 80.51	54.74
$ 134 Toluene-d8							CAS #: 2037-26-5	
7.968	7.968 (1.182)	98	855556	26.5060	26.506		80.00- 120.00	100.00
7.968	7.968 (1.182)	70	91667				0.00- 42.00	10.71

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
$ 134 Toluene-d8 (continued)							
7.968	7.968 (1.182)	100	577839			37.14- 97.14	67.54
$ 170 4-Bromofluorobenzene					CAS #: 460-00-4		
10.195	10.195 (1.107)	174	518798	24.9842	24.984	80.00- 120.00	100.00
10.195	10.195 (1.107)	95	626381			92.25- 152.25	120.74
10.195	10.195 (1.107)	176	481584			63.07- 123.07	92.83
4 Freon 134a					CAS #: 811-97-2		
1.577	1.577 (0.269)	83	284516	45.1434	45.143	80.00- 120.00	100.00
1.577	1.577 (0.269)	69	238052			50.75- 110.75	83.67
1.563	1.577 (0.267)	51	57989			0.00- 49.76	20.38
5 Propylene					CAS #: 115-07-1		
1.619	1.619 (0.276)	41	284171	46.0847	46.085	80.00- 120.00	100.00
1.619	1.619 (0.276)	42	190170			36.66- 96.66	66.92
1.619	1.619 (0.276)	39	201740			44.11- 104.11	70.99
7 1,1-Difluoroethane					CAS #: 75-37-6		
1.633	1.633 (0.279)	65	179033	46.5738	46.574	80.00- 120.00	100.00
1.633	1.633 (0.279)	51	435454			217.13- 277.13	243.22
1.633	1.647 (0.279)	47	113789			48.77- 108.77	63.56
8 Freon 12					CAS #: 75-71-8		
1.647	1.661 (0.281)	85	733994	42.5314	42.531	80.00- 120.00	100.00
1.647	1.661 (0.281)	87	237330			2.35- 62.35	32.33
9 Chlorodifluoromethane					CAS #: 75-45-6		
1.689	1.689 (0.288)	67	73179	34.1813	34.181	80.00- 120.00	100.00(R)
1.689	1.689 (0.288)	51	587402			710.68- 770.68	802.69
10 Freon 114					CAS #: 76-14-2		
1.787	1.801 (0.305)	135	574038	43.7587	43.759	80.00- 120.00	100.00
1.787	1.801 (0.305)	137	184910			2.06- 62.06	32.21
12 Isobutane					CAS #: 75-28-5		
1.800	1.815 (0.307)	43	635364	45.5091	45.509	80.00- 120.00	100.00
1.800	1.815 (0.307)	42	210796			2.70- 62.70	33.18
1.800	1.801 (0.307)	58	22702			0.00- 33.44	3.57
15 Chloromethane					CAS #: 74-87-3		
1.884	1.884 (0.322)	50	309773	41.6891	41.689	80.00- 120.00	100.00
1.884	1.884 (0.322)	52	106342			3.38- 63.38	34.33
18 Butane					CAS #: 106-97-8		
1.968	1.968 (0.336)	58	62142	35.4713	35.471	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
18 Butane (continued)							
1.968	1.968 (0.336)	43	496039			760.51- 820.51	798.24
19 Vinyl Chloride					CAS #: 75-01-4		
2.010	2.010 (0.343)	62	286941	35.3907	35.391	80.00- 120.00	100.00
2.010	2.010 (0.343)	64	88118			0.32- 60.32	30.71
20 1,3-Butadiene					CAS #: 106-99-0		
2.038	2.052 (0.348)	54	257699	33.1129	33.113	80.00- 120.00	100.00(R)
2.038	2.038 (0.348)	39	249878			72.94- 132.94	96.97
24 Bromomethane					CAS #: 74-83-9		
2.458	2.458 (0.420)	94	256786	42.4308	42.431	80.00- 120.00	100.00
2.458	2.458 (0.420)	96	247064			63.18- 123.18	96.21
30 Chloroethane					CAS #: 75-00-3		
2.584	2.598 (0.441)	64	168492	46.7692	46.769	80.00- 120.00	100.00
2.584	2.598 (0.441)	66	50830			1.10- 61.10	30.17
2.584	2.598 (0.441)	49	55516			5.46- 65.46	32.95
31 Isopentane					CAS #: 78-78-4		
2.612	2.626 (0.446)	43	434265	46.2553	46.255	80.00- 120.00	100.00
2.612	2.626 (0.446)	57	291289			36.12- 96.12	67.08
32 Vinyl Bromide					CAS #: 593-60-2		
2.822	2.836 (0.482)	106	288069	43.8193	43.819	80.00- 120.00	100.00
2.822	2.836 (0.482)	108	268695			63.01- 123.01	93.27
33 Freon 11					CAS #: 75-69-4		
2.878	2.892 (0.491)	101	812351	42.3588	42.359	80.00- 120.00	100.00
2.878	2.892 (0.491)	103	525366			36.55- 96.55	64.67
34 Dichlorofluoromethane					CAS #: 75-43-4		
2.892	2.906 (0.494)	67	638153	43.6791	43.679	80.00- 120.00	100.00
2.892	2.906 (0.494)	69	203322			1.82- 61.82	31.86
35 Pentane					CAS #: 109-66-0		
2.976	2.976 (0.508)	43	663567	42.8359	42.836	80.00- 120.00	100.00
2.976	2.976 (0.508)	57	101585			0.00- 45.52	15.31
2.976	2.976 (0.508)	72	52442			0.00- 38.25	7.90
38 Ethyl Ether					CAS #: 60-29-7		
3.312	3.326 (0.565)	74	142905	44.5324	44.532	80.00- 120.00	100.00
3.312	3.326 (0.565)	59	255961			143.51- 203.51	179.11
3.312	3.312 (0.565)	45	365527			143.53- 203.53	255.78

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
39 Ethanol					CAS #: 64-17-5		
3.270	3.270 (0.558)	46	65871	43.6154	43.615	80.00- 120.00	100.00
3.312	3.270 (0.565)	45	363808			213.29- 273.29	552.30
42 Acrolein					CAS #: 107-02-8		
3.577	3.591 (0.611)	55	120400	50.2435	50.243	80.00- 120.00	100.00
3.577	3.591 (0.611)	56	162471			104.02- 164.02	134.94
43 Freon 113					CAS #: 76-13-1		
3.577	3.591 (0.611)	151	561535	44.2334	44.233	80.00- 120.00	100.00
3.577	3.591 (0.611)	153	362616			34.03- 94.03	64.58
3.577	3.591 (0.611)	101	671828			89.72- 149.72	119.64
44 1,1-Dichloroethene					CAS #: 75-35-4		
3.619	3.619 (0.618)	96	314370	44.1526	44.152	80.00- 120.00	100.00
3.619	3.619 (0.618)	98	199280			32.85- 92.85	63.39
3.605	3.619 (0.615)	61	597735			165.91- 225.91	190.14
47 Acetone					CAS #: 67-64-1		
3.773	3.773 (0.644)	58	188327	46.8603	46.860	80.00- 120.00	100.00
3.773	3.773 (0.644)	43	603195			325.09- 385.09	320.29
48 Carbon Disulfide					CAS #: 75-15-0		
3.857	3.857 (0.658)	76	853038	46.9592	46.959	80.00- 120.00	100.00
49 Iodomethane					CAS #: 74-88-4		
3.829	3.829 (0.654)	142	807075	51.6208	51.621	80.00- 120.00	100.00
3.829	3.829 (0.654)	127	356593			16.98- 76.98	44.18
52 2-Propanol					CAS #: 67-63-0		
3.941	3.941 (0.673)	45	752835	48.5404	48.540	80.00- 120.00	100.00
3.941	3.941 (0.673)	43	142047			0.00- 49.76	18.87
54 3-Chloropropene					CAS #: 107-05-1		
4.109	4.109 (0.701)	76	140417	44.8011	44.801	80.00- 120.00	100.00
4.109	4.109 (0.701)	41	533642			344.92- 404.92	380.04
57 Acetonitrile					CAS #: 75-05-8		
4.207	4.221 (0.718)	41	330310	48.0143	48.014	80.00- 120.00	100.00
4.207	4.221 (0.718)	40	173099			24.08- 84.08	52.41
4.207	4.221 (0.718)	38	37807			0.00- 42.84	11.45
59 Methylene Chloride					CAS #: 75-09-2		
4.291	4.291 (0.732)	49	481366	47.6252	47.625	80.00- 120.00	100.00
4.291	4.291 (0.732)	84	275905			27.95- 87.95	57.32
4.291	4.291 (0.732)	51	146833			0.78- 60.78	30.50

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
62 tert-Butyl alcohol					CAS #: 75-65-0		
4.403	4.403 (0.752)	59	828117	46.2448	46.245	80.00- 120.00	100.00
4.403	4.403 (0.752)	41	185586			0.00- 52.58	22.41
4.403	4.403 (0.752)	57	88840			0.00- 40.94	10.73
63 Methyl tert-butyl ether					CAS #: 1634-04-4		
4.515	4.515 (0.771)	73	884996	45.3418	45.342	80.00- 120.00	100.00
4.515	4.515 (0.771)	57	264946			0.00- 58.27	29.94
4.515	4.515 (0.771)	41	259361			0.00- 58.78	29.31
64 trans-1,2-Dichloroethene					CAS #: 156-60-5		
4.543	4.543 (0.775)	98	210848	46.6341	46.634	80.00- 120.00	100.00
4.529	4.543 (0.773)	61	572885			236.85- 296.85	271.71
4.543	4.543 (0.775)	96	337474			126.72- 186.72	160.06
66 Acrylonitrile					CAS #: 107-13-1		
4.641	4.655 (0.792)	52	269242	45.0424	45.042	80.00- 120.00	100.00
4.641	4.655 (0.792)	53	323124			88.92- 148.92	120.01
67 Hexane					CAS #: 110-54-3		
4.753	4.753 (0.811)	57	661230	50.2010	50.201	80.00- 120.00	100.00
4.753	4.753 (0.811)	43	437495			36.74- 96.74	66.16
4.753	4.753 (0.811)	86	82325			0.00- 43.22	12.45
71 1,1-Dichloroethane					CAS #: 75-34-3		
5.033	5.047 (0.859)	63	652320	46.7446	46.744	80.00- 120.00	100.00
5.033	5.047 (0.859)	65	195717			0.56- 60.56	30.00
72 Isopropyl ether					CAS #: 108-20-3		
5.019	5.019 (0.857)	45	1450127	50.3104	50.310	80.00- 120.00	100.00
5.019	5.019 (0.857)	87	297201			0.00- 51.44	20.49
5.019	5.019 (0.857)	59	155676			0.00- 40.81	10.74
73 Vinyl Acetate					CAS #: 108-05-4		
5.075	5.075 (0.866)	86	81310	47.0310	47.031	80.00- 120.00	100.00
5.075	5.075 (0.866)	43	1216879			1473.01-1533.01	1496.58
79 Ethyl-tert-butyl ether					CAS #: 637-92-3		
5.382	5.382 (0.919)	59	1301103	49.5712	49.571	80.00- 120.00	100.00
5.382	5.382 (0.919)	87	437423			4.28- 64.28	33.62
5.382	5.382 (0.919)	41	261597			0.00- 49.94	20.11
84 2,2-Dichloropropane					CAS #: 594-20-7		
5.592	5.592 (0.955)	77	606727	46.0067	46.007	80.00- 120.00	100.00
5.592	5.592 (0.955)	79	192293			2.43- 62.43	31.69
5.592	5.592 (0.955)	97	145612			0.00- 53.03	24.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
85 cis-1,2-Dichloroethene					CAS #: 156-59-2		
5.620	5.620 (0.959)	98	233604	48.7246	48.724	80.00- 120.00	100.00
5.620	5.620 (0.959)	96	364066			121.91- 181.91	155.85
5.620	5.620 (0.959)	61	807177			313.72- 373.72	345.53
86 2-Butanone					CAS #: 78-93-3		
5.648	5.648 (0.964)	72	171612	48.9022	48.902	80.00- 120.00	100.00
5.648	5.648 (0.964)	43	1945170			1111.25-1171.25	1133.47
5.648	5.648 (0.964)	57	69117			11.22- 71.22	40.28
87 Ethyl Acetate					CAS #: 141-78-6		
5.662	5.662 (0.967)	45	160023	48.6726	48.672	80.00- 120.00	100.00
5.620	5.620 (0.959)	61	807177			469.17- 529.17	504.41
5.662	5.662 (0.967)	70	90478			29.38- 89.38	56.54
89 Tetrahydrofuran					CAS #: 109-99-9		
5.844	5.844 (0.998)	42	534595	50.0743	50.074	80.00- 120.00	100.00
5.844	5.844 (0.998)	71	154552			0.09- 60.09	28.91
5.844	5.844 (0.998)	72	161775			2.13- 62.13	30.26
92 Chloroform					CAS #: 67-66-3		
5.914	5.914 (1.010)	83	725205	47.1316	47.132	80.00- 120.00	100.00
5.914	5.914 (1.010)	85	471049			34.29- 94.29	64.95
94 Cyclohexane					CAS #: 110-82-7		
6.026	6.026 (1.029)	84	467092	49.5901	49.590	80.00- 120.00	100.00
6.026	6.026 (1.029)	56	731013			116.85- 176.85	156.50
6.026	6.026 (1.029)	41	400115			57.77- 117.77	85.66
96 1,1,1-Trichloroethane					CAS #: 71-55-6		
6.040	6.054 (1.031)	97	760126	45.5099	45.510	80.00- 120.00	100.00
6.040	6.054 (1.031)	99	487705			34.55- 94.55	64.16
97 Carbon Tetrachloride					CAS #: 56-23-5		
6.166	6.166 (1.053)	119	794500	48.6228	48.623	80.00- 120.00	100.00
6.166	6.166 (1.053)	117	825227			74.20- 134.20	103.87
99 1,1-Dichloropropene					CAS #: 563-58-6		
6.194	6.194 (0.919)	110	201082	48.8268	48.827	80.00- 120.00	100.00
6.194	6.194 (0.919)	75	516832			229.39- 289.39	257.03
101 2,2,4-Trimethylpentane					CAS #: 540-84-1		
6.348	6.362 (1.084)	57	2269849	53.9266	53.927	80.00- 120.00	100.00
6.348	6.362 (1.084)	56	751030			1.14- 61.14	33.09
6.348	6.348 (1.084)	41	585114			0.00- 59.12	25.78

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
102 Benzene					CAS #: 71-43-2		
6.376	6.376 (0.946)	78	1024358	49.3086	49.309	80.00- 120.00	100.00
6.376	6.376 (0.946)	77	236913			0.00- 53.48	23.13
105 tert-Amyl methyl ether					CAS #: 994-05-8		
6.432	6.432 (0.954)	87	263633	48.8419	48.842	80.00- 120.00	100.00
6.432	6.432 (0.954)	73	1041216			363.80- 423.80	394.95
6.432	6.432 (0.954)	55	342380			97.13- 157.13	129.87
106 1,2-Dichloroethane					CAS #: 107-06-2		
6.460	6.460 (0.958)	62	545965	44.0933	44.093	80.00- 120.00	100.00
6.460	6.460 (0.958)	64	168354			1.41- 61.41	30.84
107 Heptane					CAS #: 142-82-5		
6.516	6.516 (0.966)	71	373651	46.2135	46.213	80.00- 120.00	100.00
6.516	6.516 (0.966)	43	809259			146.45- 206.45	216.58
6.516	6.516 (0.966)	57	543293			90.20- 150.20	145.40
110 n-Butanol					CAS #: 71-36-3		
6.886	6.886 (1.021)	56	391299	54.5966	54.596	80.00- 120.00	100.00
6.886	6.886 (1.021)	41	284673			44.46- 104.46	72.75
6.886	6.886 (1.021)	43	224648			28.14- 88.14	57.41
111 Trichloroethene					CAS #: 79-01-6		
6.943	6.950 (1.030)	95	509263	50.1483	50.148	80.00- 120.00	100.00
6.943	6.950 (1.030)	130	558873			79.68- 139.68	109.74
6.943	6.943 (1.030)	97	330458			34.74- 94.74	64.89
114 1,2-Dichloropropane					CAS #: 78-87-5		
7.187	7.187 (1.066)	63	498710	53.6304	53.630	80.00- 120.00	100.00
7.187	7.187 (1.066)	62	346855			40.55- 100.55	69.55
7.187	7.187 (1.066)	41	296508			36.07- 96.07	59.46
116 Methyl Methacrylate					CAS #: 80-62-6		
7.223	7.230 (0.784)	69	406201	47.8281	47.828	80.00- 120.00	100.00
7.223	7.230 (0.784)	41	733370			160.67- 220.67	180.54
7.223	7.230 (0.784)	100	164474			11.33- 71.33	40.49
117 1,4-Dioxane					CAS #: 123-91-1		
7.266	7.266 (1.078)	88	273138	46.9137	46.914	80.00- 120.00	100.00
7.266	7.266 (1.078)	58	249688			56.19- 116.19	91.41
7.266	7.266 (1.078)	57	80078			0.00- 59.32	29.32
118 Dibromomethane					CAS #: 74-95-3		
7.294	7.294 (0.792)	174	477291	47.5838	47.584	80.00- 120.00	100.00
7.294	7.294 (0.792)	93	448205			66.88- 126.88	93.91

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
118 Dibromomethane (continued)							
7.294	7.294 (0.792)	95	373756			49.90- 109.90	78.31
122 Bromodichloromethane					CAS #: 75-27-4		
7.402	7.409 (1.098)	83	833166	49.0568	49.057	80.00- 120.00	100.00
7.402	7.409 (1.098)	85	526623			33.85- 93.85	63.21
126 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.781	7.781 (1.154)	75	669346	51.7558	51.756	80.00- 120.00	100.00
7.781	7.781 (1.154)	77	215135			1.50- 61.50	32.14
7.781	7.781 (1.154)	39	428227			43.12- 103.12	63.98
127 Methylcyclohexane					CAS #: 108-87-2		
7.051	7.051 (1.046)	83	657952	51.3306	51.330	80.00- 120.00	100.00
7.051	7.051 (1.046)	98	300763			17.10- 77.10	45.71
7.051	7.051 (1.046)	55	696297			71.11- 131.11	105.83
131 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.882	7.889 (1.169)	58	449413	49.8549	49.855	80.00- 120.00	100.00
7.882	7.889 (1.169)	43	1208391			247.84- 307.84	268.88
7.889	7.889 (1.170)	85	159279			8.73- 68.73	35.44
137 Toluene					CAS #: 108-88-3		
8.025	8.025 (1.190)	91	1438437	52.1081	52.108	80.00- 120.00	100.00
8.025	8.025 (1.190)	92	840675			28.13- 88.13	58.44
136 Octane					CAS #: 111-65-9		
8.003	8.011 (1.187)	57	508735	54.7929	54.793	80.00- 120.00	100.00
8.003	8.011 (1.187)	85	461854			67.77- 127.77	90.78
8.003	8.011 (1.187)	43	1320263			225.27- 285.27	259.52
139 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
8.254	8.254 (0.897)	75	645030	48.0042	48.004	80.00- 120.00	100.00
8.254	8.254 (0.897)	77	203806			1.93- 61.93	31.60
8.254	8.254 (0.897)	39	397161			38.37- 98.37	61.57
141 1,1,2-Trichloroethane					CAS #: 79-00-5		
8.412	8.412 (0.914)	97	492301	49.0933	49.093	80.00- 120.00	100.00
8.412	8.412 (0.914)	99	311369			31.66- 91.66	63.25
8.412	8.412 (0.914)	83	428622			55.24- 115.24	87.06
142 Tetrachloroethene					CAS #: 127-18-4		
8.462	8.462 (0.919)	166	718192	49.1085	49.108	80.00- 120.00	100.00
8.462	8.462 (0.919)	129	572312			48.51- 108.51	79.69
8.462	8.462 (0.919)	131	546607			45.64- 105.64	76.11

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
143 2-Hexanone					CAS #: 591-78-6		
8.576	8.576 (0.932)	58	627637	44.4121	44.412	80.00- 120.00	100.00
8.569	8.576 (0.931)	43	1205449			169.24- 229.24	192.06
8.576	8.576 (0.932)	100	109286			0.00- 48.72	17.41
144 1,3-Dichloropropane					CAS #: 142-28-9		
8.562	8.562 (1.270)	76	680354	49.8849	49.885	80.00- 120.00	100.00
8.562	8.569 (1.270)	41	793791			96.83- 156.83	116.67
8.562	8.562 (1.270)	78	220172			2.46- 62.46	32.36
146 Dibromochloromethane					CAS #: 124-48-1		
8.734	8.734 (0.949)	129	982975	49.1297	49.130	80.00- 120.00	100.00
8.734	8.734 (0.949)	127	766771			47.05- 107.05	78.01
148 1,2-Dibromoethane (EDB)					CAS #: 106-93-4		
8.856	8.856 (0.962)	107	802326	49.1142	49.114	80.00- 120.00	100.00
8.856	8.856 (0.962)	109	753296			64.74- 124.74	93.89
151 1-Bromo-2-Chloroethane					CAS #: 107-04-0		
7.695	7.702 (1.141)	63	923288	55.4320	55.432	80.00- 120.00	100.00
7.695	7.702 (1.141)	65	275065			0.05- 60.05	29.79
7.702	7.702 (1.142)	144	94074			0.00- 40.91	10.19
154 Chlorobenzene					CAS #: 108-90-7		
9.228	9.228 (1.002)	112	1253281	50.3075	50.307	80.00- 120.00	100.00
9.228	9.228 (1.002)	114	403218			2.19- 62.19	32.17
9.228	9.228 (1.002)	77	670240			23.66- 83.66	53.48
155 Ethyl Benzene					CAS #: 100-41-4		
9.271	9.278 (1.007)	106	631555	51.1899	51.190	80.00- 120.00	100.00
9.271	9.278 (1.007)	91	1964144			282.43- 342.43	311.00
156 Nonane					CAS #: 111-84-2		
9.271	9.278 (1.007)	43	1418643	57.0638	57.064	80.00- 120.00	100.00
9.271	9.278 (1.007)	57	1193828			55.73- 115.73	84.15
9.278	9.278 (1.008)	85	371246			0.00- 58.99	26.17
157 1,1,1,2-Tetrachloroethane					CAS #: 630-20-6		
9.293	9.300 (1.009)	131	595959	43.1211	43.121	80.00- 120.00	100.00
9.207	9.207 (1.000)	117	794198			38.22- 98.22	133.26
9.293	9.293 (1.009)	95	212398			7.54- 67.54	35.64
158 m,p-Xylene					CAS #: 108-38-3		
9.371	9.371 (1.018)	106	789538	52.1057	52.106	80.00- 120.00	100.00
9.371	9.371 (1.018)	91	1564812			169.66- 229.66	198.19

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
164 o-Xylene					CAS #: 95-47-6		
9.715	9.722 (1.055)	106	729307	50.7596	50.760	80.00- 120.00	100.00
9.715	9.722 (1.055)	91	1537779			180.55- 240.55	210.85
165 Styrene					CAS #: 100-42-5		
9.737	9.737 (1.058)	104	1274700	51.2334	51.233	80.00- 120.00	100.00
9.737	9.737 (1.058)	78	592455			18.65- 78.65	46.48
167 Bromoform					CAS #: 75-25-2		
9.945	9.945 (1.080)	173	949228	50.0150	50.015	80.00- 120.00	100.00
9.945	9.945 (1.080)	171	487866			21.64- 81.64	51.40
168 Cumene					CAS #: 98-82-8		
10.009	10.009 (1.087)	105	2297707	50.3480	50.348	80.00- 120.00	100.00
10.009	10.009 (1.087)	120	620699			0.00- 57.04	27.01
10.002	10.002 (1.086)	51	276311			0.00- 41.95	12.03
169 Cyclohexanone					CAS #: 108-94-1		
10.181	10.181 (1.106)	55	749675	36.1614	36.161	80.00- 120.00	100.00
10.181	10.181 (1.106)	98	263154			8.59- 68.59	35.10
10.181	10.181 (1.106)	42	525366			46.18- 106.18	70.08
175 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
10.317	10.317 (1.121)	83	1112458	50.0042	50.004	80.00- 120.00	100.00
10.317	10.317 (1.121)	85	721856			34.44- 94.44	64.89
177 Bromobenzene					CAS #: 108-86-1		
10.338	10.338 (1.123)	156	741813	51.1238	51.124	80.00- 120.00	100.00
10.338	10.338 (1.123)	158	719032			67.20- 127.20	96.93
10.338	10.338 (1.123)	77	1252105			131.36- 191.36	168.79
178 Propylbenzene					CAS #: 103-65-1		
10.353	10.360 (1.124)	120	661744	50.5133	50.513	80.00- 120.00	100.00
10.353	10.353 (1.124)	91	2778931	51.3622	51.362	385.23- 445.23	419.94
10.353	10.360 (1.124)	105	104774			0.00- 46.02	15.83
179 1,2,3-Trichloropropane					CAS #: 96-18-4		
10.381	10.381 (1.128)	110	350585	48.9974	48.997	80.00- 120.00	100.00
10.381	10.381 (1.128)	75	1289006			301.57- 361.57	367.67
10.381	10.381 (1.128)	61	311112			54.32- 114.32	88.74
181 trans-1,4-Dichloro-2-butene					CAS #: 110-57-6		
10.374	10.374 (1.127)	53	368750	64.7170	64.717	80.00- 120.00	100.00
10.374	10.374 (1.127)	89	243568			40.38- 100.38	66.05
10.381	10.381 (1.128)	75	1289006			394.61- 454.61	349.56

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
182 Decane					CAS #: 124-18-5		
10.389	10.396 (1.128)	57	1563094	52.4583	52.458	80.00- 120.00	100.00
10.396	10.396 (1.129)	71	485792			2.98- 62.98	31.08
10.396	10.396 (1.129)	142	73920			0.00- 35.12	4.73
183 4-Ethyltoluene					CAS #: 622-96-8		
10.453	10.453 (1.135)	120	727708	51.4494	51.449	80.00- 120.00	100.00
10.453	10.453 (1.135)	105	2373171			295.29- 355.29	326.12
184 2-Chlorotoluene					CAS #: 95-49-8		
10.482	10.482 (1.138)	126	593585	50.4742	50.474	80.00- 120.00	100.00
10.482	10.482 (1.138)	91	2089158			325.01- 385.01	351.96
10.482	10.482 (1.138)	65	269248			19.90- 79.90	45.36
185 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
10.503	10.503 (1.141)	120	999615	50.6634	50.663	80.00- 120.00	100.00
10.503	10.503 (1.141)	105	2026117			176.14- 236.14	202.69
188 alpha Methyl Styrene					CAS #: 98-83-9		
10.704	10.704 (1.163)	118	1027719	52.2819	52.282	80.00- 120.00	100.00
10.704	10.704 (1.163)	103	569454			26.69- 86.69	55.41
189 tert-Butylbenzene					CAS #: 98-06-6		
10.783	10.783 (1.171)	119	1862541	50.4016	50.402	80.00- 120.00	100.00
10.783	10.783 (1.171)	134	468361			0.00- 54.52	25.15
10.783	10.783 (1.171)	91	1190101			34.68- 94.68	63.90
190 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
10.833	10.833 (1.177)	105	1996749	52.1443	52.144	80.00- 120.00	100.00
10.833	10.833 (1.177)	120	939565			17.12- 77.12	47.05
192 sec-Butylbenzene					CAS #: 135-98-8		
10.969	10.969 (1.191)	134	601254	49.2633	49.263	80.00- 120.00	100.00
10.969	10.969 (1.191)	105	2860042			438.96- 498.96	475.68
10.969	10.969 (1.191)	91	443962			44.37- 104.37	73.84
194 p-Cymene					CAS #: 99-87-6		
11.076	11.083 (1.203)	119	2551349	50.7604	50.760	80.00- 120.00	100.00
11.076	11.083 (1.203)	134	674379			0.00- 56.91	26.43
11.076	11.076 (1.203)	91	578655			0.00- 53.86	22.68
195 1,3-Dichlorobenzene					CAS #: 541-73-1		
11.126	11.134 (1.208)	146	1385744	50.7473	50.747	80.00- 120.00	100.00
11.126	11.134 (1.208)	148	879496			33.78- 93.78	63.47
11.126	11.126 (1.208)	111	569976			11.40- 71.40	41.13

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
196 1,4-Dichlorobenzene					CAS #: 106-46-7		
11.212	11.212 (1.218)	146	1399764	50.3229	50.323	80.00- 120.00	100.00
11.212	11.212 (1.218)	148	888766			33.73- 93.73	63.49
11.205	11.212 (1.217)	111	556811			9.40- 69.40	39.78
199 alpha-Chlorotoluene					CAS #: 100-44-7		
11.327	11.327 (1.230)	91	1913660	50.5249	50.525	80.00- 120.00	100.00
11.327	11.327 (1.230)	126	431827			0.00- 52.58	22.57
201 Undecane					CAS #: 1120-21-4		
11.399	11.399 (1.238)	57	1840701	54.9823	54.982	80.00- 120.00	100.00
11.399	11.399 (1.238)	43	1666332			62.03- 122.03	90.53
202 Butylbenzene					CAS #: 104-51-8		
11.434	11.434 (1.242)	134	665664	49.5029	49.503	80.00- 120.00	100.00
11.434	11.434 (1.242)	91	2332633			322.91- 382.91	350.42
11.434	11.434 (1.242)	92	1245883			155.43- 215.43	187.16
204 1,2-Dichlorobenzene					CAS #: 95-50-1		
11.549	11.549 (1.254)	146	1316856	49.7849	49.785	80.00- 120.00	100.00
11.549	11.549 (1.254)	148	834690			33.66- 93.66	63.39
11.542	11.549 (1.254)	111	559611			12.36- 72.36	42.50
206 1,2-Dibromo-3-chloropropane					CAS #: 96-12-8		
12.251	12.258 (1.331)	157	761865	46.8498	46.850	80.00- 120.00	100.00
12.251	12.251 (1.331)	75	641707			56.77- 116.77	84.23
12.251	12.258 (1.331)	155	594559			48.17- 108.17	78.04
207 Dodecane					CAS #: 112-40-3		
12.351	12.351 (1.342)	57	1787232	59.7911	59.791	80.00- 120.00	100.00
12.351	12.351 (1.342)	43	1514789			56.62- 116.62	84.76
213 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
13.039	13.039 (1.416)	180	1176395	57.1948	57.195	80.00- 120.00	100.00
13.039	13.039 (1.416)	182	1118568			64.88- 124.88	95.08
215 Hexachlorobutadiene					CAS #: 87-68-3		
13.125	13.132 (1.426)	225	914980	61.6023	61.602	80.00- 120.00	100.00
13.125	13.132 (1.426)	223	585739			33.46- 93.46	64.02
216 Naphthalene					CAS #: 91-20-3		
13.340	13.340 (1.449)	128	289474	5.10790	5.108	80.00- 120.00	100.00
13.340	13.340 (1.449)	127	36920			0.00- 43.71	12.75
222 1,2,3-Trichlorobenzene					CAS #: 87-61-6		
13.612	13.612 (1.478)	180	1069179	55.9560	55.956	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
222 1,2,3-Trichlorobenzene (continued)							
13.612	13.612 (1.478)	182	1011337			66.23- 126.23	94.59
13.612	13.612 (1.478)	145	386846			5.93- 65.93	36.18

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd3.i
Lab File ID: 3090904.d
Lab Smp Id: LCS
Analysis Type: VOA
Quant Type: ISTD
Operator: LD
Method File: /chem/msd3.i/09SEP21.b/321q0812b.m
Misc Info: 50ppbv (200ppbv)

Calibration Date: 09-SEP-2021
Calibration Time: 11:39
Client Smp ID: LCS
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	194770	116862	272678	217543	11.69
108 1,4-Difluorobenze	712592	427555	997629	800957	12.40
153 Chlorobenzene-d5	710524	426314	994734	794198	11.78

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.86	5.53	6.19	5.86	-0.00
108 1,4-Difluorobenze	6.75	6.42	7.08	6.74	-0.11
153 Chlorobenzene-d5	9.21	8.88	9.54	9.21	-0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

US32TAR1

RECOVERY REPORT

Client Name: Client SDG: 09SEP21
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: LCS Client Smp ID: LCS
Level: LOW Operator: LD
Data Type: MS DATA SampleType: LCS
SpikeList File: AT20_new.spk Quant Type: ISTD
Sublist File: AT20LCS_new.sub
Method File: /chem/msd3.i/09SEP21.b/321q0812b.m
Misc Info: 50ppbv (200ppbv)

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
4 Freon 134a	50.000	45.143	90.29	70-130
5 Propylene	50.000	46.085	92.17	70-130
7 1,1-Difluoroethan	50.000	46.574	93.15	70-130
8 Freon 12	50.000	42.531	85.06	70-130
9 Chlorodifluoromet	50.000	34.181	68.36*	70-130
10 Freon 114	50.000	43.759	87.52	70-130
12 Isobutane	50.000	45.509	91.02	70-130
15 Chloromethane	50.000	41.689	83.38	70-130
18 Butane	50.000	35.471	70.94	70-130
19 Vinyl Chloride	50.000	35.391	70.78	70-130
20 1,3-Butadiene	50.000	33.113	66.23*	70-130
24 Bromomethane	50.000	42.431	84.86	70-130
30 Chloroethane	50.000	46.769	93.54	70-130
31 Isopentane	50.000	46.255	92.51	70-130
32 Vinyl Bromide	50.000	43.819	87.64	70-130
33 Freon 11	50.000	42.359	84.72	70-130
34 Dichlorofluoromet	50.000	43.679	87.36	70-130
35 Pentane	50.000	42.836	85.67	70-130
38 Ethyl Ether	50.000	44.532	89.06	70-130
39 Ethanol	58.000	43.615	75.20	70-130
42 Acrolein	58.000	50.243	86.63	70-130
43 Freon 113	50.000	44.233	88.47	70-130
44 1,1-Dichloroethen	50.000	44.152	88.31	70-130
47 Acetone	50.000	46.860	93.72	70-130
48 Carbon Disulfide	50.000	46.959	93.92	70-130
49 Iodomethane	50.000	51.621	103.24	70-130
52 2-Propanol	50.000	48.540	97.08	70-130
54 3-Chloropropene	50.000	44.801	89.60	70-130
57 Acetonitrile	50.000	48.014	96.03	70-130
59 Methylene Chlorid	50.000	47.625	95.25	70-130
62 tert-Butyl alcoho	50.000	46.245	92.49	70-130
63 Methyl tert-butyl	50.000	45.342	90.68	70-130
64 trans-1,2-Dichlor	50.000	46.634	93.27	70-130

	SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
66	Acrylonitrile	50.000	45.042	90.08	70-130
67	Hexane	50.000	50.201	100.40	70-130
71	1,1-Dichloroethan	50.000	46.744	93.49	70-130
72	Isopropyl ether	50.000	50.310	100.62	70-130
73	Vinyl Acetate	50.000	47.031	94.06	70-130
79	Ethyl-tert-butyl	50.000	49.571	99.14	70-130
84	2,2-Dichloropropa	50.000	46.007	92.01	70-130
85	cis-1,2-Dichloroe	50.000	48.724	97.45	70-130
86	2-Butanone	50.000	48.902	97.80	70-130
87	Ethyl Acetate	50.000	48.672	97.35	70-130
89	Tetrahydrofuran	50.000	50.074	100.15	70-130
92	Chloroform	50.000	47.132	94.26	70-130
94	Cyclohexane	50.000	49.590	99.18	70-130
96	1,1,1-Trichloroet	50.000	45.510	91.02	70-130
99	1,1-Dichloroprope	50.000	48.827	97.65	70-130
97	Carbon Tetrachlor	50.000	48.623	97.25	70-130
101	2,2,4-Trimethylpe	50.000	53.927	107.85	70-130
102	Benzene	50.000	49.309	98.62	70-130
105	tert-Amyl methyl	50.000	48.842	97.68	70-130
106	1,2-Dichloroethan	50.000	44.093	88.19	70-130
107	Heptane	50.000	46.213	92.43	70-130
110	n-Butanol	50.000	54.596	109.19	70-130
111	Trichloroethene	50.000	50.148	100.30	70-130
118	Dibromomethane	50.000	47.584	95.17	70-130
127	Methylcyclohexane	50.000	51.330	102.66	70-130
114	1,2-Dichloropropa	50.000	53.630	107.26	70-130
116	Methyl Methacryla	50.000	47.828	95.66	70-130
117	1,4-Dioxane	50.000	46.914	93.83	70-130
122	Bromodichlorometh	50.000	49.057	98.11	70-130
126	cis-1,3-Dichlorop	50.000	51.756	103.51	70-130
131	4-Methyl-2-pentan	50.000	49.855	99.71	70-130
136	Octane	50.000	54.793	109.59	70-130
137	Toluene	50.000	52.108	104.22	70-130
139	trans-1,3-Dichlor	50.000	48.004	96.01	70-130
141	1,1,2-Trichloroet	50.000	49.093	98.19	70-130
142	Tetrachloroethene	50.000	49.108	98.22	70-130
143	2-Hexanone	50.000	44.412	88.82	70-130
144	1,3-Dichloropropa	50.000	49.885	99.77	70-130
146	Dibromochlorometh	50.000	49.130	98.26	70-130
148	1,2-Dibromoethane	50.000	49.114	98.23	70-130
151	1-Bromo-2-Chloroe	50.000	55.432	110.86	70-130
154	Chlorobenzene	50.000	50.307	100.61	70-130
155	Ethyl Benzene	50.000	51.190	102.38	70-130
156	Nonane	50.000	57.064	114.13	70-130
157	1,1,1,2-Tetrachlo	50.000	43.121	86.24	70-130
158	m,p-Xylene	50.000	52.106	104.21	70-130
164	o-Xylene	50.000	50.760	101.52	70-130

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
165 Styrene	50.000	51.233	102.47	70-130
167 Bromoform	50.000	50.015	100.03	70-130
168 Cumene	50.000	50.348	100.70	70-130
169 Cyclohexanone	50.000	36.161	72.32	70-130
175 1,1,2,2-Tetrachlo	50.000	50.004	100.01	70-130
177 Bromobenzene	50.000	51.124	102.25	70-130
178 Propylbenzene	50.000	50.513	101.03	70-130
179 1,2,3-Trichloropr	50.000	48.997	97.99	70-130
181 trans-1,4-Dichlor	50.000	64.717	129.43	70-130
182 Decane	50.000	52.458	104.92	70-130
183 4-Ethyltoluene	50.000	51.449	102.90	70-130
184 2-Chlorotoluene	50.000	50.474	100.95	70-130
185 1,3,5-Trimethylbe	50.000	50.663	101.33	70-130
188 alpha Methyl Styr	50.000	52.282	104.56	70-130
189 tert-Butylbenzene	50.000	50.402	100.80	70-130
190 1,2,4-Trimethylbe	50.000	52.144	104.29	70-130
192 sec-Butylbenzene	50.000	49.263	98.53	70-130
194 p-Cymene	50.000	50.760	101.52	70-130
195 1,3-Dichlorobenze	50.000	50.747	101.49	70-130
196 1,4-Dichlorobenze	50.000	50.323	100.65	70-130
199 alpha-Chlorotolue	50.000	50.525	101.05	70-130
201 Undecane	50.000	54.982	109.96	70-130
202 Butylbenzene	50.000	49.503	99.01	70-130
204 1,2-Dichlorobenze	50.000	49.785	99.57	70-130
206 1,2-Dibromo-3-chl	50.000	46.850	93.70	70-130
207 Dodecane	50.000	59.791	119.58	70-130
213 1,2,4-Trichlorobe	58.000	57.195	98.61	70-130
215 Hexachlorobutadie	58.000	61.602	106.21	70-130
216 Naphthalene	5.800	5.108	88.07	60-140
222 1,2,3-Trichlorobe	58.000	55.956	96.48	70-130

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 104 1,2-Dichloroethan	25.000	22.362	89.45	70-130
$ 134 Toluene-d8	25.000	26.506	106.02	70-130
$ 170 4-Bromofluorobenz	25.000	24.984	99.94	70-130

Data File: /chem/msd3.i/09SEP21.b/3090904.d

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Date : 09-SEP-2021 12:07

Client ID: LCS

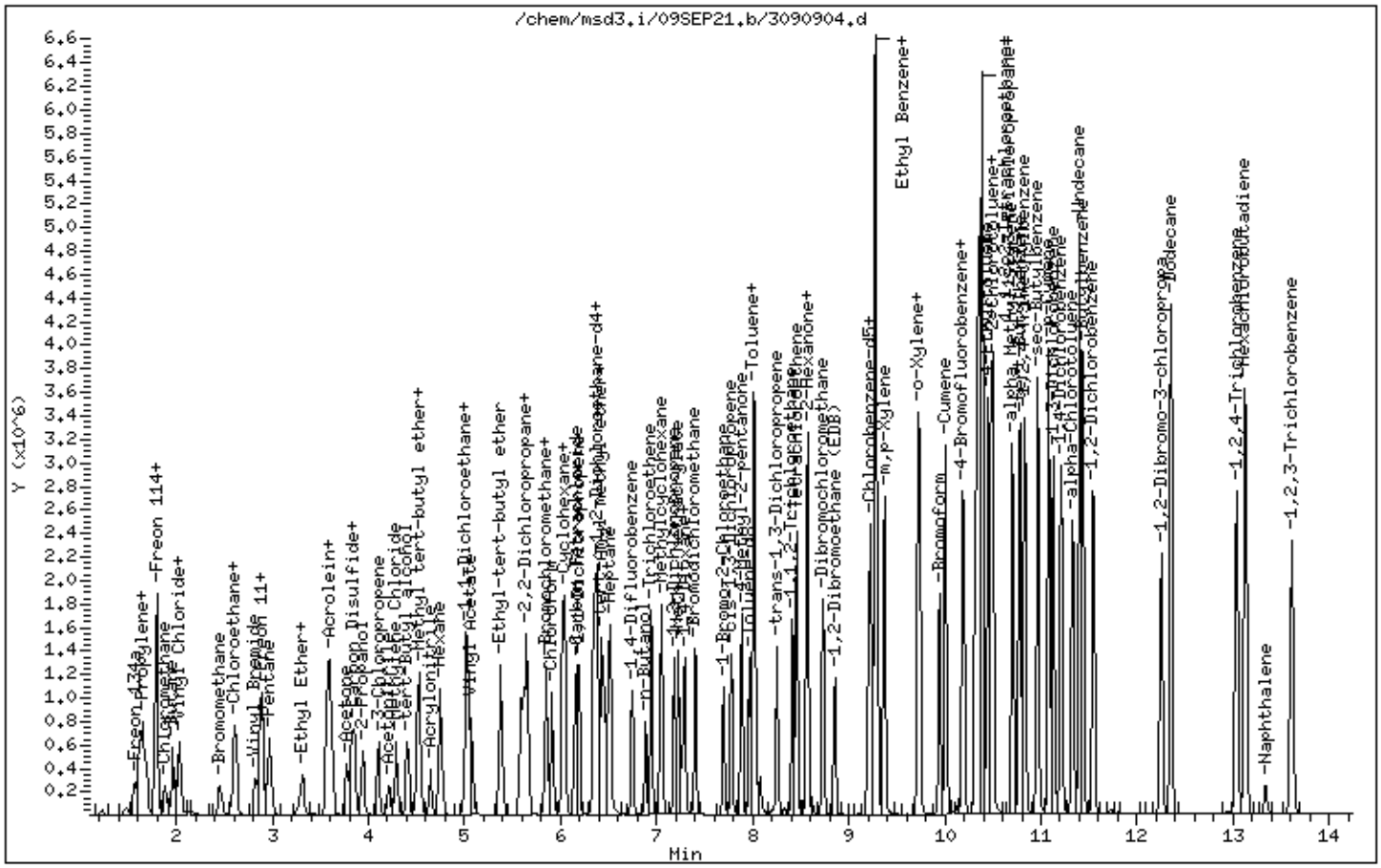
Instrument: msd3.i

Sample Info: 50mL 3018-2169

Operator: LD

Column phase: RTX-624

Column diameter: 0.25



eurofins | Air Toxics

Client ID:	LCSD		
Lab ID:	2108676B-05AA	**Date/Time Analyzed:**	9/9/21 12:34 PM
Date/Time Collected:	NA - Not Applicable	**Dilution Factor:**	1.00
Media:	NA - Not Applicable	**Instrument/Filename:**	msd3.i / 3090905

Compound	CAS#	%Recovery
1,1,1-Trichloroethane	71-55-6	91
1,1,2,2-Tetrachloroethane	79-34-5	101
1,1,2-Trichloroethane	79-00-5	100
1,1-Dichloroethane	75-34-3	94
1,1-Dichloroethene	75-35-4	87
1,2,4-Trichlorobenzene	120-82-1	105
1,2,4-Trimethylbenzene	95-63-6	105
1,2-Dibromoethane (EDB)	106-93-4	98
1,2-Dichlorobenzene	95-50-1	101
1,2-Dichloroethane	107-06-2	87
1,2-Dichloropropane	78-87-5	106
1,3,5-Trimethylbenzene	108-67-8	102
1,3-Butadiene	106-99-0	78
1,3-Dichlorobenzene	541-73-1	103
1,4-Dichlorobenzene	106-46-7	102
1,4-Dioxane	123-91-1	89
2,2,4-Trimethylpentane	540-84-1	108
2-Butanone (Methyl Ethyl Ketone)	78-93-3	96
2-Hexanone	591-78-6	88
2-Propanol	67-63-0	93
3-Chloropropene	107-05-1	89
4-Ethyltoluene	622-96-8	103
4-Methyl-2-pentanone	108-10-1	98
Acetone	67-64-1	93

* % Recovery is calculated using unrounded analytical results.

eurofins | Air Toxics

Client ID:	LCSD		
Lab ID:	2108676B-05AA	**Date/Time Analyzed:**	9/9/21 12:34 PM
Date/Time Collected:	NA - Not Applicable	**Dilution Factor:**	1.00
Media:	NA - Not Applicable	**Instrument/Filename:**	msd3.i / 3090905

Compound	CAS#	%Recovery
alpha-Chlorotoluene	100-44-7	102
Benzene	71-43-2	98
Bromodichloromethane	75-27-4	96
Bromoform	75-25-2	100
Bromomethane	74-83-9	86
Carbon Disulfide	75-15-0	94
Carbon Tetrachloride	56-23-5	98
Chlorobenzene	108-90-7	101
Chloroethane	75-00-3	92
Chloroform	67-66-3	94
Chloromethane	74-87-3	84
cis-1,2-Dichloroethene	156-59-2	98
cis-1,3-Dichloropropene	10061-01-5	102
Cumene	98-82-8	102
Cyclohexane	110-82-7	100
Dibromochloromethane	124-48-1	99
Ethanol	64-17-5	72
Ethyl Benzene	100-41-4	103
Freon 11	75-69-4	84
Freon 113	76-13-1	88
Freon 114	76-14-2	86
Freon 12	75-71-8	84
Heptane	142-82-5	84
Hexachlorobutadiene	87-68-3	114

* % Recovery is calculated using unrounded analytical results.

Client ID:	LCSD		
Lab ID:	2108676B-05AA	**Date/Time Analyzed:**	9/9/21 12:34 PM
Date/Time Collected:	NA - Not Applicable	**Dilution Factor:**	1.00
Media:	NA - Not Applicable	**Instrument/Filename:**	msd3.i / 3090905

Compound	CAS#	%Recovery
Hexane	110-54-3	101
m,p-Xylene	108-38-3	104
Methyl tert-butyl ether	1634-04-4	91
Methylene Chloride	75-09-2	95
Naphthalene	91-20-3	92
o-Xylene	95-47-6	103
Propylbenzene	103-65-1	101
Propylene	115-07-1	92
Styrene	100-42-5	103
Tetrachloroethene	127-18-4	99
Tetrahydrofuran	109-99-9	101
Toluene	108-88-3	103
trans-1,2-Dichloroethene	156-60-5	94
trans-1,3-Dichloropropene	10061-02-6	96
Trichloroethene	79-01-6	100
Vinyl Acetate	108-05-4	99
Vinyl Chloride	75-01-4	78

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	91
4-Bromofluorobenzene	460-00-4	70-130	99
Toluene-d8	2037-26-5	70-130	105

* % Recovery is calculated using unrounded analytical results.

US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msd3.i/09SEP21.b/3090905.d
Lab Smp Id: LCSD Client Smp ID: LCSD
Inj Date : 09-SEP-2021 12:34
Operator : LD Inst ID: msd3.i
Smp Info : 50mL 3018-2169
Misc Info : 50ppbv (200ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msd3.i/09SEP21.b/321q0812b.m
Meth Date : 09-Sep-2021 15:48 lk8g Quant Type: ISTD
Cal Date : 02-SEP-2021 10:33 Cal File: 3090203.d
Als bottle: 14 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT20LCS_new.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)		
RT	EXP RT (REL RT)	MASS	RESPONSE				TARGET RANGE	RATIO
* 90 Bromochloromethane						CAS #: 74-97-5		
5.858	5.858 (1.000)	130	201014	25.0000			80.00- 120.00	100.00
5.858	5.858 (1.000)	128	154929				47.29- 107.29	77.07
5.858	5.858 (1.000)	49	321095				122.83- 182.83	159.74
* 108 1,4-Difluorobenzene						CAS #: 540-36-3		
6.750	6.750 (1.000)	114	745602	25.0000			80.00- 120.00	100.00
6.750	6.750 (1.000)	88	112894				0.00- 45.09	15.14
* 153 Chlorobenzene-d5						CAS #: 3114-55-4		
9.207	9.207 (1.000)	117	726122	25.0000			80.00- 120.00	100.00
9.207	9.207 (1.000)	82	390688				23.62- 83.62	53.80
$ 104 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
6.404	6.404 (1.093)	65	254935	22.7631	22.763		80.00- 120.00	100.00
6.404	6.404 (1.093)	67	136621				20.51- 80.51	53.59
$ 134 Toluene-d8						CAS #: 2037-26-5		
7.967	7.968 (1.180)	98	786413	26.1727	26.173		80.00- 120.00	100.00
7.967	7.968 (1.180)	70	90785				0.00- 42.00	11.54

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
$ 134 Toluene-d8 (continued)							
7.967	7.968 (1.180)	100	530848			37.14- 97.14	67.50
$ 170 4-Bromofluorobenzene					CAS #: 460-00-4		
10.195	10.195 (1.107)	174	470568	24.7862	24.786	80.00- 120.00	100.00
10.195	10.195 (1.107)	95	576211			92.25- 152.25	122.45
10.202	10.195 (1.108)	176	441333			63.07- 123.07	93.79
4 Freon 134a					CAS #: 811-97-2		
1.577	1.577 (0.269)	83	258454	44.3803	44.380	80.00- 120.00	100.00
1.577	1.577 (0.269)	69	222366			50.75- 110.75	86.04
1.577	1.577 (0.269)	51	53113			0.00- 49.76	20.55
5 Propylene					CAS #: 115-07-1		
1.618	1.619 (0.276)	41	263505	46.2473	46.247	80.00- 120.00	100.00
1.618	1.619 (0.276)	42	174831			36.66- 96.66	66.35
1.618	1.619 (0.276)	39	183103			44.11- 104.11	69.49
7 1,1-Difluoroethane					CAS #: 75-37-6		
1.632	1.633 (0.279)	65	164476	46.3052	46.305	80.00- 120.00	100.00
1.632	1.633 (0.279)	51	401611			217.13- 277.13	244.18
1.632	1.647 (0.279)	47	105323			48.77- 108.77	64.04
8 Freon 12					CAS #: 75-71-8		
1.660	1.661 (0.283)	85	674009	42.2671	42.267	80.00- 120.00	100.00
1.660	1.661 (0.283)	87	220911			2.35- 62.35	32.78
9 Chlorodifluoromethane					CAS #: 75-45-6		
1.688	1.689 (0.288)	67	66595	33.6636	33.664	80.00- 120.00	100.00(R)
1.688	1.689 (0.288)	51	541728			710.68- 770.68	813.47
10 Freon 114					CAS #: 76-14-2		
1.800	1.801 (0.307)	135	522887	43.1371	43.137	80.00- 120.00	100.00
1.800	1.801 (0.307)	137	171519			2.06- 62.06	32.80
12 Isobutane					CAS #: 75-28-5		
1.800	1.815 (0.307)	43	590437	45.7688	45.769	80.00- 120.00	100.00
1.800	1.815 (0.307)	42	194105			2.70- 62.70	32.87
1.800	1.801 (0.307)	58	20057			0.00- 33.44	3.40
15 Chloromethane					CAS #: 74-87-3		
1.884	1.884 (0.322)	50	288398	42.0040	42.004	80.00- 120.00	100.00
1.884	1.884 (0.322)	52	97620			3.38- 63.38	33.85
18 Butane					CAS #: 106-97-8		
1.968	1.968 (0.336)	58	58267	35.9944	35.994	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
18 Butane (continued)							
1.968	1.968 (0.336)	43	459573			760.51- 820.51	788.74
19 Vinyl Chloride					CAS #: 75-01-4		
2.010	2.010 (0.343)	62	292874	39.0929	39.093	80.00- 120.00	100.00
2.010	2.010 (0.343)	64	87685			0.32- 60.32	29.94
20 1,3-Butadiene					CAS #: 106-99-0		
2.038	2.052 (0.348)	54	278767	38.7655	38.766	80.00- 120.00	100.00
2.038	2.038 (0.348)	39	271364			72.94- 132.94	97.34
24 Bromomethane					CAS #: 74-83-9		
2.458	2.458 (0.420)	94	240566	43.0194	43.019	80.00- 120.00	100.00
2.458	2.458 (0.420)	96	226253			63.18- 123.18	94.05
30 Chloroethane					CAS #: 75-00-3		
2.598	2.598 (0.443)	64	152326	45.7587	45.759	80.00- 120.00	100.00
2.598	2.598 (0.443)	66	47025			1.10- 61.10	30.87
2.598	2.598 (0.443)	49	50440			5.46- 65.46	33.11
31 Isopentane					CAS #: 78-78-4		
2.626	2.626 (0.448)	43	395671	45.6101	45.610	80.00- 120.00	100.00
2.626	2.626 (0.448)	57	265593			36.12- 96.12	67.12
32 Vinyl Bromide					CAS #: 593-60-2		
2.836	2.836 (0.484)	106	261070	42.9779	42.978	80.00- 120.00	100.00
2.836	2.836 (0.484)	108	242767			63.01- 123.01	92.99
33 Freon 11					CAS #: 75-69-4		
2.892	2.892 (0.494)	101	744503	42.0132	42.013	80.00- 120.00	100.00
2.892	2.892 (0.494)	103	487784			36.55- 96.55	65.52
34 Dichlorofluoromethane					CAS #: 75-43-4		
2.906	2.906 (0.496)	67	591042	43.7811	43.781	80.00- 120.00	100.00
2.906	2.906 (0.496)	69	183926			1.82- 61.82	31.12
35 Pentane					CAS #: 109-66-0		
2.976	2.976 (0.508)	43	612112	42.7636	42.764	80.00- 120.00	100.00
2.976	2.976 (0.508)	57	93427			0.00- 45.52	15.26
2.976	2.976 (0.508)	72	48106			0.00- 38.25	7.86
38 Ethyl Ether					CAS #: 60-29-7		
3.325	3.326 (0.568)	74	131432	44.3250	44.325	80.00- 120.00	100.00
3.325	3.326 (0.568)	59	238719			143.51- 203.51	181.63
3.312	3.312 (0.565)	45	238216			143.53- 203.53	181.25

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
39 Ethanol					CAS #: 64-17-5		
3.270	3.270 (0.558)	46	58576	41.9750	41.975	80.00- 120.00	100.00
3.270	3.270 (0.558)	45	117732			213.29- 273.29	200.99
42 Acrolein					CAS #: 107-02-8		
3.577	3.591 (0.611)	55	110548	49.9258	49.926	80.00- 120.00	100.00
3.577	3.591 (0.611)	56	155658			104.02- 164.02	140.81
43 Freon 113					CAS #: 76-13-1		
3.591	3.591 (0.613)	151	518111	44.1688	44.169	80.00- 120.00	100.00
3.591	3.591 (0.613)	153	334956			34.03- 94.03	64.65
3.591	3.591 (0.613)	101	615989			89.72- 149.72	118.89
44 1,1-Dichloroethene					CAS #: 75-35-4		
3.619	3.619 (0.618)	96	287565	43.7090	43.709	80.00- 120.00	100.00
3.619	3.619 (0.618)	98	184482			32.85- 92.85	64.15
3.619	3.619 (0.618)	61	554591			165.91- 225.91	192.86
47 Acetone					CAS #: 67-64-1		
3.773	3.773 (0.644)	58	172154	46.3585	46.358	80.00- 120.00	100.00
3.773	3.773 (0.644)	43	554712			325.09- 385.09	322.22
48 Carbon Disulfide					CAS #: 75-15-0		
3.857	3.857 (0.658)	76	786226	46.8402	46.840	80.00- 120.00	100.00
49 Iodomethane					CAS #: 74-88-4		
3.829	3.829 (0.654)	142	752285	52.0730	52.073	80.00- 120.00	100.00
3.829	3.829 (0.654)	127	328572			16.98- 76.98	43.68
52 2-Propanol					CAS #: 67-63-0		
3.941	3.941 (0.673)	45	669828	46.7398	46.740	80.00- 120.00	100.00
3.941	3.941 (0.673)	43	127102			0.00- 49.76	18.98
54 3-Chloropropene					CAS #: 107-05-1		
4.109	4.109 (0.701)	76	129545	44.7310	44.731	80.00- 120.00	100.00
4.109	4.109 (0.701)	41	488405			344.92- 404.92	377.02
57 Acetonitrile					CAS #: 75-05-8		
4.221	4.221 (0.721)	41	299418	47.1028	47.103	80.00- 120.00	100.00
4.221	4.221 (0.721)	40	159765			24.08- 84.08	53.36
4.207	4.221 (0.718)	38	34545			0.00- 42.84	11.54
59 Methylene Chloride					CAS #: 75-09-2		
4.291	4.291 (0.732)	49	442627	47.3935	47.393	80.00- 120.00	100.00
4.291	4.291 (0.732)	84	257125			27.95- 87.95	58.09
4.291	4.291 (0.732)	51	137410			0.78- 60.78	31.04

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
62 tert-Butyl alcohol					CAS #: 75-65-0		
4.403	4.403 (0.752)	59	749231	45.2801	45.280	80.00- 120.00	100.00
4.403	4.403 (0.752)	41	165339			0.00- 52.58	22.07
4.403	4.403 (0.752)	57	81865			0.00- 40.94	10.93
63 Methyl tert-butyl ether					CAS #: 1634-04-4		
4.515	4.515 (0.771)	73	822834	45.6235	45.624	80.00- 120.00	100.00
4.515	4.515 (0.771)	57	248194			0.00- 58.27	30.16
4.515	4.515 (0.771)	41	235818			0.00- 58.78	28.66
64 trans-1,2-Dichloroethene					CAS #: 156-60-5		
4.543	4.543 (0.775)	98	195575	46.8132	46.813	80.00- 120.00	100.00
4.543	4.543 (0.775)	61	525966			236.85- 296.85	268.93
4.543	4.543 (0.775)	96	307585			126.72- 186.72	157.27
66 Acrylonitrile					CAS #: 107-13-1		
4.655	4.655 (0.795)	52	251592	45.5509	45.551	80.00- 120.00	100.00
4.655	4.655 (0.795)	53	303261			88.92- 148.92	120.54
67 Hexane					CAS #: 110-54-3		
4.753	4.753 (0.811)	57	612814	50.3510	50.351	80.00- 120.00	100.00
4.753	4.753 (0.811)	43	402614			36.74- 96.74	65.70
4.753	4.753 (0.811)	86	75782			0.00- 43.22	12.37
71 1,1-Dichloroethane					CAS #: 75-34-3		
5.046	5.047 (0.861)	63	603130	46.7736	46.774	80.00- 120.00	100.00
5.046	5.047 (0.861)	65	182650			0.56- 60.56	30.28
72 Isopropyl ether					CAS #: 108-20-3		
5.019	5.019 (0.857)	45	1335496	50.1434	50.143	80.00- 120.00	100.00
5.019	5.019 (0.857)	87	271567			0.00- 51.44	20.33
5.019	5.019 (0.857)	59	145016			0.00- 40.81	10.86
73 Vinyl Acetate					CAS #: 108-05-4		
5.074	5.075 (0.866)	86	78823	49.3412	49.341	80.00- 120.00	100.00
5.074	5.075 (0.866)	43	1145036			1473.01-1533.01	1452.66
79 Ethyl-tert-butyl ether					CAS #: 637-92-3		
5.382	5.382 (0.919)	59	1204508	49.6646	49.665	80.00- 120.00	100.00
5.382	5.382 (0.919)	87	405901			4.28- 64.28	33.70
5.382	5.382 (0.919)	41	235125			0.00- 49.94	19.52
84 2,2-Dichloropropane					CAS #: 594-20-7		
5.592	5.592 (0.955)	77	559206	45.8900	45.890	80.00- 120.00	100.00
5.592	5.592 (0.955)	79	181353			2.43- 62.43	32.43
5.592	5.592 (0.955)	97	135543			0.00- 53.03	24.24

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
85 cis-1,2-Dichloroethene					CAS #: 156-59-2		
5.620	5.620 (0.959)	98	216975	48.9775	48.977	80.00- 120.00	100.00
5.620	5.620 (0.959)	96	328403			121.91- 181.91	151.36
5.620	5.620 (0.959)	61	747271			313.72- 373.72	344.40
86 2-Butanone					CAS #: 78-93-3		
5.648	5.648 (0.964)	72	156463	48.2516	48.252	80.00- 120.00	100.00
5.648	5.648 (0.964)	43	1787109			1111.25-1171.25	1142.19
5.648	5.648 (0.964)	57	64908			11.22- 71.22	41.48
87 Ethyl Acetate					CAS #: 141-78-6		
5.662	5.662 (0.967)	45	147532	48.5629	48.563	80.00- 120.00	100.00
5.620	5.620 (0.959)	61	747271			469.17- 529.17	506.52
5.662	5.662 (0.967)	70	84193			29.38- 89.38	57.07
89 Tetrahydrofuran					CAS #: 109-99-9		
5.844	5.844 (0.998)	42	497154	50.3966	50.396	80.00- 120.00	100.00
5.844	5.844 (0.998)	71	142931			0.09- 60.09	28.75
5.844	5.844 (0.998)	72	150355			2.13- 62.13	30.24
92 Chloroform					CAS #: 67-66-3		
5.914	5.914 (1.010)	83	668457	47.0160	47.016	80.00- 120.00	100.00
5.914	5.914 (1.010)	85	430669			34.29- 94.29	64.43
94 Cyclohexane					CAS #: 110-82-7		
6.026	6.026 (1.029)	84	434762	49.9532	49.953	80.00- 120.00	100.00
6.026	6.026 (1.029)	56	673545			116.85- 176.85	154.92
6.026	6.026 (1.029)	41	371922			57.77- 117.77	85.55
96 1,1,1-Trichloroethane					CAS #: 71-55-6		
6.054	6.054 (1.033)	97	702658	45.5286	45.528	80.00- 120.00	100.00
6.054	6.054 (1.033)	99	451333			34.55- 94.55	64.23
97 Carbon Tetrachloride					CAS #: 56-23-5		
6.166	6.166 (1.053)	119	737797	48.8656	48.866	80.00- 120.00	100.00
6.166	6.166 (1.053)	117	767269			74.20- 134.20	103.99
99 1,1-Dichloropropene					CAS #: 563-58-6		
6.194	6.194 (0.918)	110	185956	48.5064	48.506	80.00- 120.00	100.00
6.194	6.194 (0.918)	75	482137			229.39- 289.39	259.27
101 2,2,4-Trimethylpentane					CAS #: 540-84-1		
6.348	6.362 (1.084)	57	2100697	54.0119	54.012	80.00- 120.00	100.00
6.348	6.362 (1.084)	56	691560			1.14- 61.14	32.92
6.348	6.348 (1.084)	41	538657			0.00- 59.12	25.64

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
102 Benzene					CAS #: 71-43-2		
6.390	6.376 (0.947)	78	943234	48.7745	48.774	80.00- 120.00	100.00
6.390	6.376 (0.947)	77	220148			0.00- 53.48	23.34
105 tert-Amyl methyl ether					CAS #: 994-05-8		
6.432	6.432 (0.953)	87	243915	48.5439	48.544	80.00- 120.00	100.00
6.432	6.432 (0.953)	73	958739			363.80- 423.80	393.06
6.432	6.432 (0.953)	55	327275			97.13- 157.13	134.18
106 1,2-Dichloroethane					CAS #: 107-06-2		
6.474	6.460 (0.959)	62	501404	43.5008	43.501	80.00- 120.00	100.00
6.474	6.460 (0.959)	64	156314			1.41- 61.41	31.18
107 Heptane					CAS #: 142-82-5		
6.516	6.516 (0.965)	71	315970	41.9808	41.981	80.00- 120.00	100.00
6.516	6.516 (0.965)	43	713045			146.45- 206.45	225.67
6.516	6.516 (0.965)	57	417755			90.20- 150.20	132.21
110 n-Butanol					CAS #: 71-36-3		
6.886	6.886 (1.020)	56	350370	52.5153	52.515	80.00- 120.00	100.00
6.886	6.886 (1.020)	41	252296			44.46- 104.46	72.01
6.886	6.886 (1.020)	43	203866			28.14- 88.14	58.19
111 Trichloroethene					CAS #: 79-01-6		
6.950	6.950 (1.030)	95	471793	49.9077	49.908	80.00- 120.00	100.00
6.950	6.950 (1.030)	130	513541			79.68- 139.68	108.85
6.950	6.943 (1.030)	97	305497			34.74- 94.74	64.75
114 1,2-Dichloropropane					CAS #: 78-87-5		
7.187	7.187 (1.065)	63	457134	52.8091	52.809	80.00- 120.00	100.00
7.187	7.187 (1.065)	62	319642			40.55- 100.55	69.92
7.187	7.187 (1.065)	41	258308			36.07- 96.07	56.51
116 Methyl Methacrylate					CAS #: 80-62-6		
7.230	7.230 (0.785)	69	374033	48.1695	48.169	80.00- 120.00	100.00
7.230	7.230 (0.785)	41	692876			160.67- 220.67	185.24
7.230	7.230 (0.785)	100	154106			11.33- 71.33	41.20
117 1,4-Dioxane					CAS #: 123-91-1		
7.265	7.266 (1.076)	88	241118	44.4887	44.489	80.00- 120.00	100.00
7.265	7.266 (1.076)	58	218056			56.19- 116.19	90.44
7.265	7.266 (1.076)	57	70922			0.00- 59.32	29.41
118 Dibromomethane					CAS #: 74-95-3		
7.294	7.294 (0.792)	174	434636	47.3938	47.394	80.00- 120.00	100.00
7.294	7.294 (0.792)	93	412277			66.88- 126.88	94.86

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
118 Dibromomethane (continued)							
7.294	7.294 (0.792)	95	346490			49.90- 109.90	79.72
122 Bromodichloromethane					CAS #: 75-27-4		
7.409	7.409 (1.098)	83	760244	48.0865	48.086	80.00- 120.00	100.00
7.409	7.409 (1.098)	85	492108			33.85- 93.85	64.73
126 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.781	7.781 (1.153)	75	612853	50.9057	50.906	80.00- 120.00	100.00
7.781	7.781 (1.153)	77	196669			1.50- 61.50	32.09
7.781	7.781 (1.153)	39	394981			43.12- 103.12	64.45
127 Methylcyclohexane					CAS #: 108-87-2		
7.051	7.051 (1.045)	83	609702	51.0977	51.098	80.00- 120.00	100.00
7.051	7.051 (1.045)	98	283020			17.10- 77.10	46.42
7.051	7.051 (1.045)	55	637230			71.11- 131.11	104.52
131 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.889	7.889 (1.169)	58	412788	49.1916	49.192	80.00- 120.00	100.00
7.889	7.889 (1.169)	43	1118116			247.84- 307.84	270.87
7.889	7.889 (1.169)	85	146057			8.73- 68.73	35.38
137 Toluene					CAS #: 108-88-3		
8.025	8.025 (1.189)	91	1319321	51.3413	51.341	80.00- 120.00	100.00
8.025	8.025 (1.189)	92	776749			28.13- 88.13	58.87
136 Octane					CAS #: 111-65-9		
8.010	8.011 (1.187)	57	477289	55.2225	55.222	80.00- 120.00	100.00
8.010	8.011 (1.187)	85	431698			67.77- 127.77	90.45
8.010	8.011 (1.187)	43	1207451			225.27- 285.27	252.98
139 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
8.254	8.254 (0.897)	75	590282	48.0483	48.048	80.00- 120.00	100.00
8.254	8.254 (0.897)	77	187756			1.93- 61.93	31.81
8.254	8.254 (0.897)	39	364451			38.37- 98.37	61.74
141 1,1,2-Trichloroethane					CAS #: 79-00-5		
8.419	8.412 (0.914)	97	458217	49.9783	49.978	80.00- 120.00	100.00
8.419	8.412 (0.914)	99	283291			31.66- 91.66	61.82
8.412	8.412 (0.914)	83	396752			55.24- 115.24	86.59
142 Tetrachloroethene					CAS #: 127-18-4		
8.462	8.462 (0.919)	166	662882	49.5760	49.576	80.00- 120.00	100.00
8.462	8.462 (0.919)	129	520722			48.51- 108.51	78.55
8.462	8.462 (0.919)	131	498895			45.64- 105.64	75.26

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
143 2-Hexanone					CAS #: 591-78-6		
8.576	8.576 (0.932)	58	567313	43.9071	43.907	80.00- 120.00	100.00
8.576	8.576 (0.932)	43	1110223			169.24- 229.24	195.70
8.576	8.576 (0.932)	100	100288			0.00- 48.72	17.68
144 1,3-Dichloropropane					CAS #: 142-28-9		
8.562	8.562 (1.268)	76	625331	49.2546	49.254	80.00- 120.00	100.00
8.569	8.569 (1.270)	41	725900			96.83- 156.83	116.08
8.562	8.562 (1.268)	78	203437			2.46- 62.46	32.53
146 Dibromochloromethane					CAS #: 124-48-1		
8.734	8.734 (0.949)	129	906350	49.5470	49.547	80.00- 120.00	100.00
8.734	8.734 (0.949)	127	707045			47.05- 107.05	78.01
148 1,2-Dibromoethane (EDB)					CAS #: 106-93-4		
8.856	8.856 (0.962)	107	733482	49.1095	49.109	80.00- 120.00	100.00
8.856	8.856 (0.962)	109	690094			64.74- 124.74	94.08
151 1-Bromo-2-Chloroethane					CAS #: 107-04-0		
7.702	7.702 (1.141)	63	850699	54.8657	54.866	80.00- 120.00	100.00
7.702	7.702 (1.141)	65	252226			0.05- 60.05	29.65
7.702	7.702 (1.141)	144	86456			0.00- 40.91	10.16
154 Chlorobenzene					CAS #: 108-90-7		
9.235	9.228 (1.003)	112	1155670	50.7385	50.738	80.00- 120.00	100.00
9.228	9.228 (1.002)	114	367551			2.19- 62.19	31.80
9.228	9.228 (1.002)	77	616832			23.66- 83.66	53.37
155 Ethyl Benzene					CAS #: 100-41-4		
9.278	9.278 (1.008)	106	580992	51.5066	51.507	80.00- 120.00	100.00
9.278	9.278 (1.008)	91	1804991			282.43- 342.43	310.67
156 Nonane					CAS #: 111-84-2		
9.278	9.278 (1.008)	43	1301040	57.2397	57.240	80.00- 120.00	100.00
9.278	9.278 (1.008)	57	1105940			55.73- 115.73	85.00
9.278	9.278 (1.008)	85	346209			0.00- 58.99	26.61
157 1,1,1,2-Tetrachloroethane					CAS #: 630-20-6		
9.293	9.300 (1.009)	131	547974	43.3664	43.366	80.00- 120.00	100.00
9.207	9.207 (1.000)	117	726122			38.22- 98.22	132.51
9.293	9.293 (1.009)	95	194495			7.54- 67.54	35.49
158 m,p-Xylene					CAS #: 108-38-3		
9.371	9.371 (1.018)	106	721092	52.0503	52.050	80.00- 120.00	100.00
9.371	9.371 (1.018)	91	1447109			169.66- 229.66	200.68

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
164 o-Xylene					CAS #: 95-47-6		
9.722	9.722 (1.056)	106	674199	51.3234	51.323	80.00- 120.00	100.00
9.722	9.722 (1.056)	91	1417758			180.55- 240.55	210.29
165 Styrene					CAS #: 100-42-5		
9.737	9.737 (1.058)	104	1172500	51.5439	51.544	80.00- 120.00	100.00
9.737	9.737 (1.058)	78	545717			18.65- 78.65	46.54
167 Bromoform					CAS #: 75-25-2		
9.944	9.945 (1.080)	173	871546	50.2272	50.227	80.00- 120.00	100.00
9.944	9.945 (1.080)	171	444857			21.64- 81.64	51.04
168 Cumene					CAS #: 98-82-8		
10.009	10.009 (1.087)	105	2121077	50.8350	50.835	80.00- 120.00	100.00
10.009	10.009 (1.087)	120	575850			0.00- 57.04	27.15
10.009	10.002 (1.087)	51	256195			0.00- 41.95	12.08
169 Cyclohexanone					CAS #: 108-94-1		
10.181	10.181 (1.106)	55	666124	35.1437	35.144	80.00- 120.00	100.00
10.181	10.181 (1.106)	98	234215			8.59- 68.59	35.16
10.181	10.181 (1.106)	42	470518			46.18- 106.18	70.64
175 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
10.317	10.317 (1.121)	83	1023838	50.3354	50.335	80.00- 120.00	100.00
10.317	10.317 (1.121)	85	657482			34.44- 94.44	64.22
177 Bromobenzene					CAS #: 108-86-1		
10.338	10.338 (1.123)	156	683587	51.5278	51.528	80.00- 120.00	100.00
10.338	10.338 (1.123)	158	660685			67.20- 127.20	96.65
10.338	10.338 (1.123)	77	1126011			131.36- 191.36	164.72
178 Propylbenzene					CAS #: 103-65-1		
10.360	10.360 (1.125)	120	604272	50.4507	50.451	80.00- 120.00	100.00
10.360	10.353 (1.125)	91	2556983	51.6907	51.691	385.23- 445.23	423.15
10.360	10.360 (1.125)	105	96059			0.00- 46.02	15.90
179 1,2,3-Trichloropropane					CAS #: 96-18-4		
10.381	10.381 (1.128)	110	324509	49.6052	49.605	80.00- 120.00	100.00
10.381	10.381 (1.128)	75	1181655			301.57- 361.57	364.14
10.381	10.381 (1.128)	61	283662			54.32- 114.32	87.41
181 trans-1,4-Dichloro-2-butene					CAS #: 110-57-6		
10.374	10.374 (1.127)	53	339451	65.1603	65.160	80.00- 120.00	100.00(R)
10.374	10.374 (1.127)	89	223078			40.38- 100.38	65.72
10.381	10.381 (1.128)	75	1181655			394.61- 454.61	348.11

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
182 Decane					CAS #: 124-18-5		
10.396	10.396 (1.129)	57	1426230	52.3526	52.352	80.00- 120.00	100.00
10.396	10.396 (1.129)	71	446935			2.98- 62.98	31.34
10.396	10.396 (1.129)	142	67502			0.00- 35.12	4.73
183 4-Ethyltoluene					CAS #: 622-96-8		
10.453	10.453 (1.135)	120	668933	51.7280	51.728	80.00- 120.00	100.00
10.453	10.453 (1.135)	105	2171957			295.29- 355.29	324.69
184 2-Chlorotoluene					CAS #: 95-49-8		
10.482	10.482 (1.138)	126	541889	50.3983	50.398	80.00- 120.00	100.00
10.482	10.482 (1.138)	91	1932238			325.01- 385.01	356.57
10.482	10.482 (1.138)	65	253932			19.90- 79.90	46.86
185 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
10.503	10.503 (1.141)	120	922254	51.1248	51.125	80.00- 120.00	100.00
10.503	10.503 (1.141)	105	1884215			176.14- 236.14	204.31
188 alpha Methyl Styrene					CAS #: 98-83-9		
10.704	10.704 (1.163)	118	936199	52.0913	52.091	80.00- 120.00	100.00
10.704	10.704 (1.163)	103	526356			26.69- 86.69	56.22
189 tert-Butylbenzene					CAS #: 98-06-6		
10.782	10.783 (1.171)	119	1733244	51.3000	51.300	80.00- 120.00	100.00
10.782	10.783 (1.171)	134	432608			0.00- 54.52	24.96
10.782	10.783 (1.171)	91	1108657			34.68- 94.68	63.96
190 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
10.833	10.833 (1.177)	105	1838147	52.5029	52.503	80.00- 120.00	100.00
10.833	10.833 (1.177)	120	863930			17.12- 77.12	47.00
192 sec-Butylbenzene					CAS #: 135-98-8		
10.969	10.969 (1.191)	134	557259	49.9393	49.939	80.00- 120.00	100.00
10.969	10.969 (1.191)	105	2664367			438.96- 498.96	478.12
10.969	10.969 (1.191)	91	412401			44.37- 104.37	74.01
194 p-Cymene					CAS #: 99-87-6		
11.083	11.083 (1.204)	119	2357699	51.3054	51.305	80.00- 120.00	100.00
11.083	11.083 (1.204)	134	629989			0.00- 56.91	26.72
11.076	11.076 (1.203)	91	535668			0.00- 53.86	22.72
195 1,3-Dichlorobenzene					CAS #: 541-73-1		
11.133	11.134 (1.209)	146	1281658	51.3360	51.336	80.00- 120.00	100.00
11.133	11.134 (1.209)	148	810308			33.78- 93.78	63.22
11.126	11.126 (1.208)	111	521854			11.40- 71.40	40.72

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
196 1,4-Dichlorobenzene					CAS #: 106-46-7		
11.212	11.212 (1.218)	146	1293242	50.8523	50.852	80.00- 120.00	100.00
11.212	11.212 (1.218)	148	818949			33.73- 93.73	63.33
11.212	11.212 (1.218)	111	515181			9.40- 69.40	39.84
199 alpha-Chlorotoluene					CAS #: 100-44-7		
11.327	11.327 (1.230)	91	1774747	51.2503	51.250	80.00- 120.00	100.00
11.327	11.327 (1.230)	126	401112			0.00- 52.58	22.60
201 Undecane					CAS #: 1120-21-4		
11.398	11.399 (1.238)	57	1733082	56.6211	56.621	80.00- 120.00	100.00
11.398	11.399 (1.238)	43	1565838			62.03- 122.03	90.35
202 Butylbenzene					CAS #: 104-51-8		
11.434	11.434 (1.242)	134	619172	50.3624	50.362	80.00- 120.00	100.00
11.434	11.434 (1.242)	91	2170854			322.91- 382.91	350.61
11.434	11.434 (1.242)	92	1156909			155.43- 215.43	186.85
204 1,2-Dichlorobenzene					CAS #: 95-50-1		
11.549	11.549 (1.254)	146	1221183	50.4963	50.496	80.00- 120.00	100.00
11.549	11.549 (1.254)	148	773971			33.66- 93.66	63.38
11.542	11.549 (1.254)	111	518955			12.36- 72.36	42.50
206 1,2-Dibromo-3-chloropropane					CAS #: 96-12-8		
12.258	12.258 (1.331)	157	711355	47.8449	47.845	80.00- 120.00	100.00
12.251	12.251 (1.331)	75	596854			56.77- 116.77	83.90
12.258	12.258 (1.331)	155	554754			48.17- 108.17	77.99
207 Dodecane					CAS #: 112-40-3		
12.358	12.351 (1.342)	57	1849583	67.6782	67.678	80.00- 120.00	100.00(R)
12.358	12.351 (1.342)	43	1564871			56.62- 116.62	84.61
213 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
13.039	13.039 (1.416)	180	1146403	60.9620	60.962	80.00- 120.00	100.00
13.039	13.039 (1.416)	182	1098480			64.88- 124.88	95.82
215 Hexachlorobutadiene					CAS #: 87-68-3		
13.125	13.132 (1.426)	225	895970	65.9779	65.978	80.00- 120.00	100.00
13.132	13.132 (1.426)	223	570753			33.46- 93.46	63.70
216 Naphthalene					CAS #: 91-20-3		
13.340	13.340 (1.449)	128	278121	5.36767	5.368	80.00- 120.00	100.00
13.340	13.340 (1.449)	127	36077			0.00- 43.71	12.97
222 1,2,3-Trichlorobenzene					CAS #: 87-61-6		
13.612	13.612 (1.478)	180	1069387	61.2139	61.214	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
222 1,2,3-Trichlorobenzene (continued)							
13.612	13.612 (1.478)	182	1019442			66.23- 126.23	95.33
13.612	13.612 (1.478)	145	387662			5.93- 65.93	36.25

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd3.i
Lab File ID: 3090905.d
Lab Smp Id: LCSD
Analysis Type: VOA
Quant Type: ISTD
Operator: LD
Method File: /chem/msd3.i/09SEP21.b/321q0812b.m
Misc Info: 50ppbv (200ppbv)

Calibration Date: 09-SEP-2021
Calibration Time: 11:39
Client Smp ID: LCSD
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	194770	116862	272678	201014	3.21
108 1,4-Difluorobenze	712592	427555	997629	745602	4.63
153 Chlorobenzene-d5	710524	426314	994734	726122	2.20

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.86	5.53	6.19	5.86	-0.00
108 1,4-Difluorobenze	6.75	6.42	7.08	6.75	-0.00
153 Chlorobenzene-d5	9.21	8.88	9.54	9.21	-0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

US32TAR1

RECOVERY REPORT

Client Name: Client SDG: 09SEP21
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: LCSD Client Smp ID: LCSD
Level: LOW Operator: LD
Data Type: MS DATA SampleType: LCSD
SpikeList File: AT20_new.spk Quant Type: ISTD
Sublist File: AT20LCS_new.sub
Method File: /chem/msd3.i/09SEP21.b/321q0812b.m
Misc Info: 50ppbv (200ppbv)

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
4 Freon 134a	50.000	44.380	88.76	70-130
5 Propylene	50.000	46.247	92.49	70-130
7 1,1-Difluoroethan	50.000	46.305	92.61	70-130
8 Freon 12	50.000	42.267	84.53	70-130
9 Chlorodifluoromet	50.000	33.664	67.33*	70-130
10 Freon 114	50.000	43.137	86.27	70-130
12 Isobutane	50.000	45.769	91.54	70-130
15 Chloromethane	50.000	42.004	84.01	70-130
18 Butane	50.000	35.994	71.99	70-130
19 Vinyl Chloride	50.000	39.093	78.19	70-130
20 1,3-Butadiene	50.000	38.766	77.53	70-130
24 Bromomethane	50.000	43.019	86.04	70-130
30 Chloroethane	50.000	45.759	91.52	70-130
31 Isopentane	50.000	45.610	91.22	70-130
32 Vinyl Bromide	50.000	42.978	85.96	70-130
33 Freon 11	50.000	42.013	84.03	70-130
34 Dichlorofluoromet	50.000	43.781	87.56	70-130
35 Pentane	50.000	42.764	85.53	70-130
38 Ethyl Ether	50.000	44.325	88.65	70-130
39 Ethanol	58.000	41.975	72.37	70-130
42 Acrolein	58.000	49.926	86.08	70-130
43 Freon 113	50.000	44.169	88.34	70-130
44 1,1-Dichloroethen	50.000	43.709	87.42	70-130
47 Acetone	50.000	46.358	92.72	70-130
48 Carbon Disulfide	50.000	46.840	93.68	70-130
49 Iodomethane	50.000	52.073	104.15	70-130
52 2-Propanol	50.000	46.740	93.48	70-130
54 3-Chloropropene	50.000	44.731	89.46	70-130
57 Acetonitrile	50.000	47.103	94.21	70-130
59 Methylene Chlorid	50.000	47.393	94.79	70-130
62 tert-Butyl alcoho	50.000	45.280	90.56	70-130
63 Methyl tert-butyl	50.000	45.624	91.25	70-130
64 trans-1,2-Dichlor	50.000	46.813	93.63	70-130

	SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
66	Acrylonitrile	50.000	45.551	91.10	70-130
67	Hexane	50.000	50.351	100.70	70-130
71	1,1-Dichloroethan	50.000	46.774	93.55	70-130
72	Isopropyl ether	50.000	50.143	100.29	70-130
73	Vinyl Acetate	50.000	49.341	98.68	70-130
79	Ethyl-tert-butyl	50.000	49.665	99.33	70-130
84	2,2-Dichloropropa	50.000	45.890	91.78	70-130
85	cis-1,2-Dichloroe	50.000	48.977	97.95	70-130
86	2-Butanone	50.000	48.252	96.50	70-130
87	Ethyl Acetate	50.000	48.563	97.13	70-130
89	Tetrahydrofuran	50.000	50.396	100.79	70-130
92	Chloroform	50.000	47.016	94.03	70-130
94	Cyclohexane	50.000	49.953	99.91	70-130
96	1,1,1-Trichloroet	50.000	45.528	91.06	70-130
99	1,1-Dichloroprope	50.000	48.506	97.01	70-130
97	Carbon Tetrachlor	50.000	48.866	97.73	70-130
101	2,2,4-Trimethylpe	50.000	54.012	108.02	70-130
102	Benzene	50.000	48.774	97.55	70-130
105	tert-Amyl methyl	50.000	48.544	97.09	70-130
106	1,2-Dichloroethan	50.000	43.501	87.00	70-130
107	Heptane	50.000	41.981	83.96	70-130
110	n-Butanol	50.000	52.515	105.03	70-130
111	Trichloroethene	50.000	49.908	99.82	70-130
118	Dibromomethane	50.000	47.394	94.79	70-130
127	Methylcyclohexane	50.000	51.098	102.20	70-130
114	1,2-Dichloropropa	50.000	52.809	105.62	70-130
116	Methyl Methacryla	50.000	48.169	96.34	70-130
117	1,4-Dioxane	50.000	44.489	88.98	70-130
122	Bromodichlorometh	50.000	48.086	96.17	70-130
126	cis-1,3-Dichlorop	50.000	50.906	101.81	70-130
131	4-Methyl-2-pentan	50.000	49.192	98.38	70-130
136	Octane	50.000	55.222	110.44	70-130
137	Toluene	50.000	51.341	102.68	70-130
139	trans-1,3-Dichlor	50.000	48.048	96.10	70-130
141	1,1,2-Trichloroet	50.000	49.978	99.96	70-130
142	Tetrachloroethene	50.000	49.576	99.15	70-130
143	2-Hexanone	50.000	43.907	87.81	70-130
144	1,3-Dichloropropa	50.000	49.254	98.51	70-130
146	Dibromochlorometh	50.000	49.547	99.09	70-130
148	1,2-Dibromoethane	50.000	49.109	98.22	70-130
151	1-Bromo-2-Chloroe	50.000	54.866	109.73	70-130
154	Chlorobenzene	50.000	50.738	101.48	70-130
155	Ethyl Benzene	50.000	51.507	103.01	70-130
156	Nonane	50.000	57.240	114.48	70-130
157	1,1,1,2-Tetrachlo	50.000	43.366	86.73	70-130
158	m,p-Xylene	50.000	52.050	104.10	70-130
164	o-Xylene	50.000	51.323	102.65	70-130

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
165 Styrene	50.000	51.544	103.09	70-130
167 Bromoform	50.000	50.227	100.45	70-130
168 Cumene	50.000	50.835	101.67	70-130
169 Cyclohexanone	50.000	35.144	70.29	70-130
175 1,1,2,2-Tetrachlo	50.000	50.335	100.67	70-130
177 Bromobenzene	50.000	51.528	103.06	70-130
178 Propylbenzene	50.000	50.451	100.90	70-130
179 1,2,3-Trichloropr	50.000	49.605	99.21	70-130
181 trans-1,4-Dichlor	50.000	65.160	130.32*	70-130
182 Decane	50.000	52.352	104.71	70-130
183 4-Ethyltoluene	50.000	51.728	103.46	70-130
184 2-Chlorotoluene	50.000	50.398	100.80	70-130
185 1,3,5-Trimethylbe	50.000	51.125	102.25	70-130
188 alpha Methyl Styr	50.000	52.091	104.18	70-130
189 tert-Butylbenzene	50.000	51.300	102.60	70-130
190 1,2,4-Trimethylbe	50.000	52.503	105.01	70-130
192 sec-Butylbenzene	50.000	49.939	99.88	70-130
194 p-Cymene	50.000	51.305	102.61	70-130
195 1,3-Dichlorobenze	50.000	51.336	102.67	70-130
196 1,4-Dichlorobenze	50.000	50.852	101.70	70-130
199 alpha-Chlorotolue	50.000	51.250	102.50	70-130
201 Undecane	50.000	56.621	113.24	70-130
202 Butylbenzene	50.000	50.362	100.72	70-130
204 1,2-Dichlorobenze	50.000	50.496	100.99	70-130
206 1,2-Dibromo-3-chl	50.000	47.845	95.69	70-130
207 Dodecane	50.000	67.678	135.36*	70-130
213 1,2,4-Trichlorobe	58.000	60.962	105.11	70-130
215 Hexachlorobutadie	58.000	65.978	113.76	70-130
216 Naphthalene	5.800	5.368	92.55	60-140
222 1,2,3-Trichlorobe	58.000	61.214	105.54	70-130

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 104 1,2-Dichloroethan	25.000	22.763	91.05	70-130
$ 134 Toluene-d8	25.000	26.173	104.69	70-130
$ 170 4-Bromofluorobenz	25.000	24.786	99.14	70-130

Data File: /chem/msd3.i/09SEP21.b/3090905.d

Page 1

Date : 09-SEP-2021 12:34

Client ID: LCSD

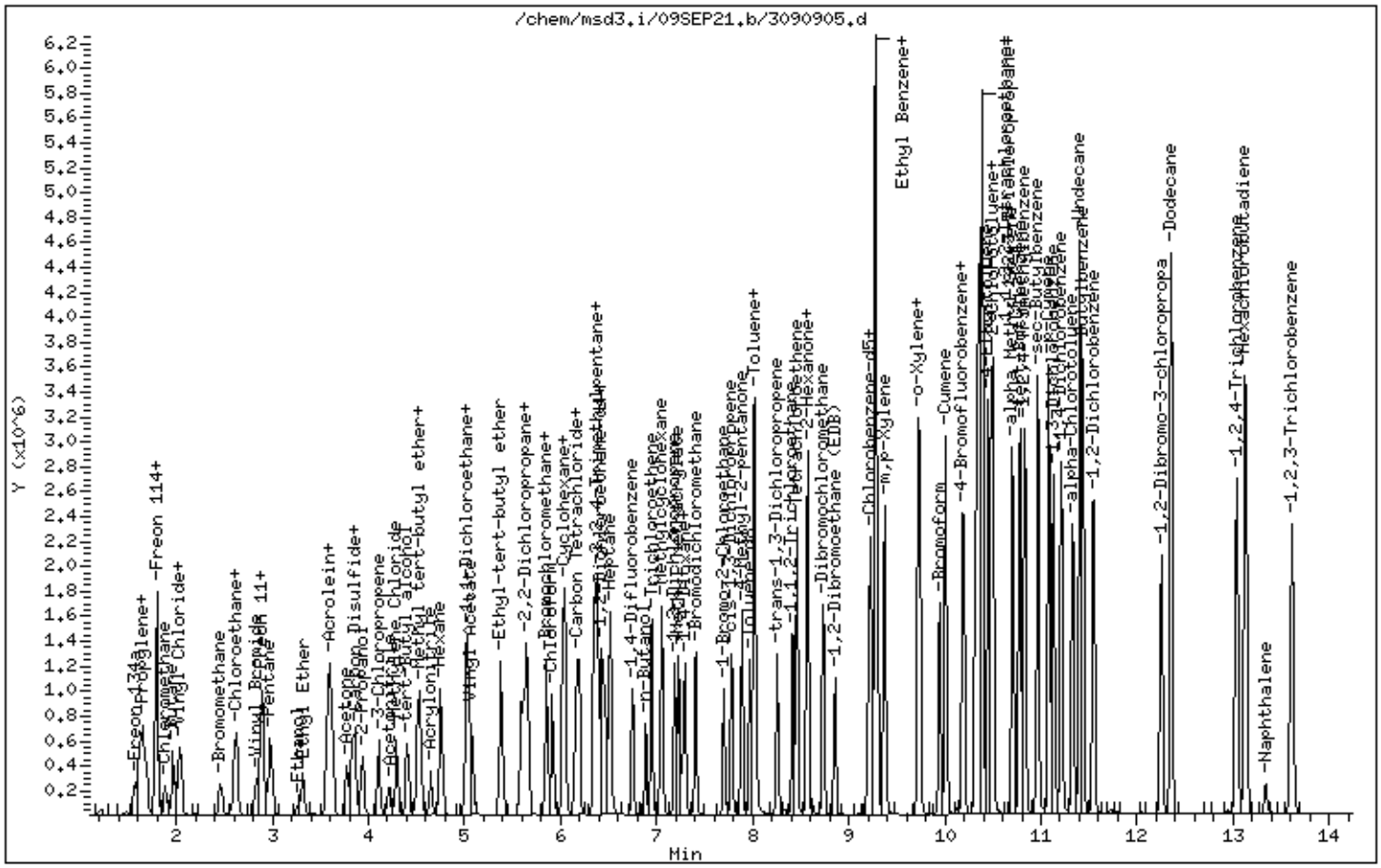
Instrument: msd3.i

Sample Info: 50mL 3018-2169

Operator: LD

Column phase: RTX-624

Column diameter: 0.25



MSD3

							Method TO-15/TO-14					
BFB Tune Verification: (235648/253184) * 100 =93.07%							SOP# 6					
	3234-66	Exp. Date:	11/2/2021			Vacuum:	NA					
BCM	194770			Surrogate # 3234-66		Exp Date:	11/2/2021			Exp Date		
1,4-DFB	712592			CCV	3018-2213A	Exp Date:	11/6/2021	LCS	3018-2169	Exp Date	10/25/2021	
CB-d5	710524			CCV SP 1 #	NA	Exp Date:	NA	LCS Sp #1	NA	Exp Date	NA	
				CCV SP 2 #	NA	Exp Date:	NA	LCS Sp #2	NA	Exp Date	NA	
				CCV SP 3#	NA	Exp Date:	NA	LCS Sp #3	NA	Exp Date	NA	
Verified CCV vs. ICAL midpoint (-40%): LD				CCV SP 4#	NA	Exp Date:	NA					
Method: 321q0812b.m												

Use	File #	Enter/Scan Sample IDs	Canister#	Cart Pos.	Pressure	Amount	DF	Verify Load	Loaded Init.	Date Analyzed	Time	Review Init	Comments
√	3090902	BFB Tune Check	3234-66	12	36ng	200ml	1.00	LD	LD	09/09/21	1053	LD	Exp. 11/2/21. Apex +1, Scan 894. leg validation
√	3090903	CCV	3018-2213A	13	50ppbv (100ppbv)	100mL	1.00	LD	LD	09/09/21	1139	LD	Exp. 11/6/21; 3 out AT-20
√	3090904	LCS	3018-2169	14	50ppbv (200ppbv)	50mL	1.00	LD	LD	09/09/21	1207	LD	Exp. 10/25/21; 1 out AT-12, 1 out AT-20
√	3090905	LCSD	3018-2169	14	50ppbv (200ppbv)	50mL	1.00	LD	LD	09/09/21	1234	LD	Exp. 10/25/21; RPD ok
√	3090906	CCVsp	3018-2127A	11	50ppbv (100ppbv)	100mL	1.00	LD	LD	09/09/21	1302	LD	Exp. 9/26/21. 0 out
√	3090907	TPHg Calib	3234-83	12	500ppbv (1250ppbv)	80mL	1.00	LD	LD	09/09/21	1328	LD	Exp. 12/1/21.
√	3090908	Lab Blank	35157	12	Humid	200mL	1.00	LD	LD	09/09/21	1433	LD	leg validation
√	3090909	2109088-01A	N5112	1	3.5 Hg->9.8 psi	200mL	1.89	DF	LD	09/09/21	1550	DF	
√	3090910	2109088-02A	N3122	2	4.3 Hg->9.9 psi	200mL	1.95	DF	LD	09/09/21	1619	DF	inf > eff
√	3090911	2109082-13A	O0715	3	3.1 Hg->9.9 psi	200mL	1.87	DF	LD	09/09/21	1649	DF	
√	3090912	2109082-14A	O0772	4	3.9 Hg->9.9 psi	200mL	1.92	DF	LD	09/09/21	1718	DF	
√	3090913	2109082-12A	3038	5	3.9 Hg->10 psi	50mL	7.72	DF	LD	09/09/21	1745	DF	dil TC
√	3090914	2109117-01A	N3901	6	4.7 Hg->10.1 psi	200mL	2.00	DF	LD	09/09/21	1815	DF	
√	3090915	2109117-02A	N2618	7	3.7 Hg->9.8 psi	200mL	1.90	DF	LD	09/09/21	1844	DF	
√	3090916	2109117-03A	N3846	8	6.5 Hg->10 psi	200mL	2.14	DF	LD	09/09/21	1913	DF	
√	3090917	2108676B-02A	O0843	9	7.3 Hg->10 psi	200mL	2.22	DF	LD	09/09/21	1942	DF	

MB 9/14/21

US32TAR1

Data file : /chem/msd3.i/12AUG21.b/3081201.d
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 12-AUG-2021 15:23
Operator : LD Inst ID: msd3.i
Smp Info : 200mL #3234-66;BFB;BFB
Misc Info : 36ng
Comment :
Method : /chem/msd3.i/12AUG21.b/bfb30.m
Meth Date : 03-Sep-2019 11:54 u7js Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 12 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Sample Matrix: WATER
Processing Host: us32tar1

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vf	1.00000	Volumetric correction factor
Vi	1.00000	Injection Volume

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
10.195	9.729	0.466	95	321642			100.00- 100.00	100.00
10.195	9.729	0.466	50	83573			8.00- 40.00	25.98
10.195	9.729	0.466	75	164970			30.00- 66.00	51.29
10.195	9.729	0.466	96	21722			5.00- 9.00	6.75
10.195	9.729	0.466	173	1686			0.00- 1.99	0.65
10.195	9.729	0.466	174	261056			50.01- 120.00	81.16
10.195	9.729	0.466	175	19311			4.00- 9.00	7.40
10.195	9.729	0.466	176	243157			93.00- 101.00	93.14
10.195	9.729	0.466	177	15490			5.00- 9.00	6.37

Data File: /chem/msd3.i/12AUG21.b/3081201.d

Date : 12-AUG-2021 15:23

Client ID: BFB

Instrument: msd3.i

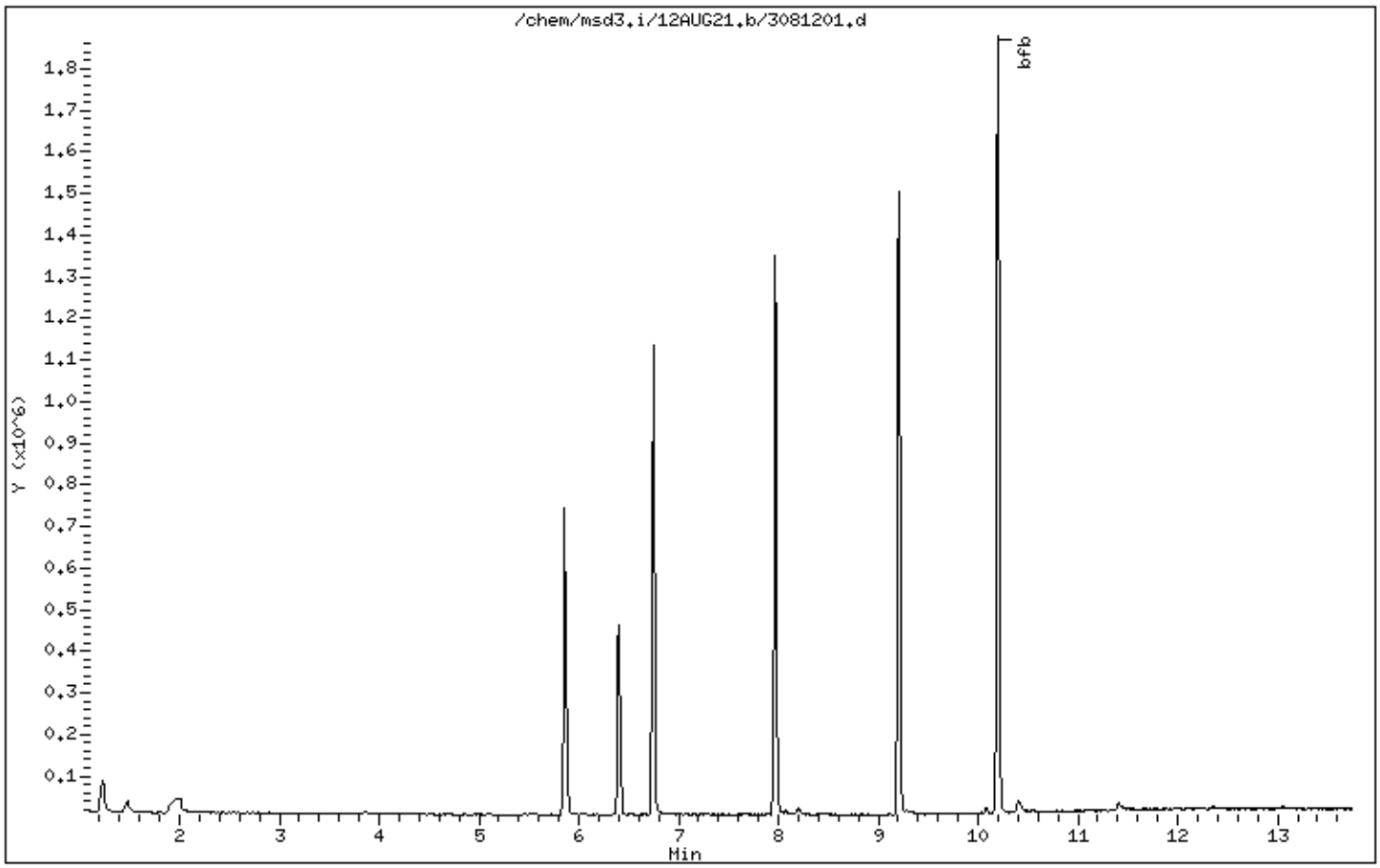
Sample Info: 200mL #3234-66;BFB;BFB

Volume Injected (uL): 1.0

Operator: LD

Column phase:

Column diameter: 2.00



Data File: /chem/msd3.i/12AUG21.b/3081201.d

Date : 12-AUG-2021 15:23

Client ID: BFB

Instrument: msd3.i

Sample Info: 200mL #3234-66;BFB;BFB

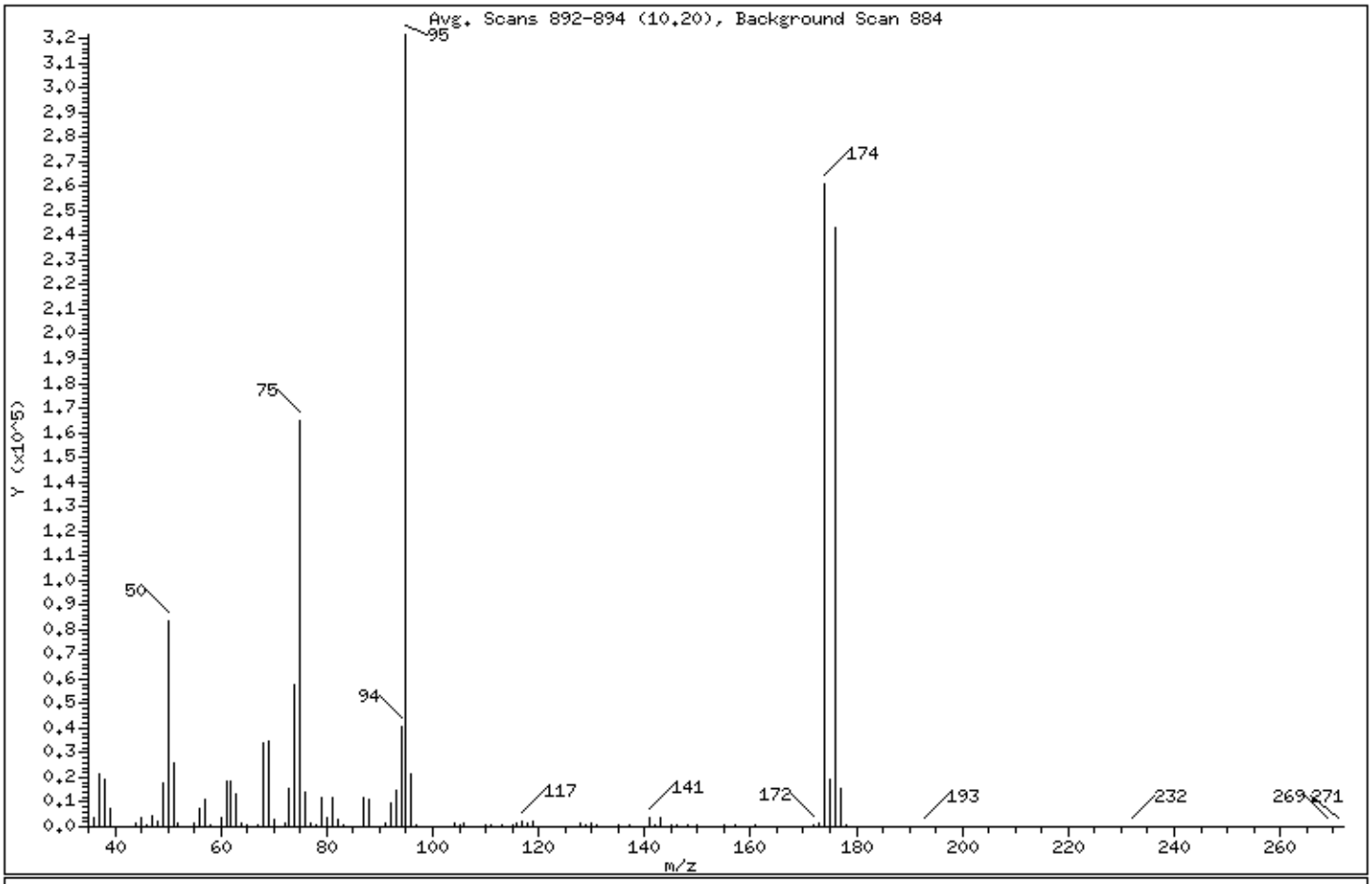
Volume Injected (uL): 1.0

Operator: LD

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	25.98
75	30.00 - 66.00% of mass 95	51.29
96	5.00 - 9.00% of mass 95	6.75
173	Less than 1.99% of mass 174	0.52 (0.65)
174	50.01 - 120.00% of mass 95	81.16
175	4.00 - 9.00% of mass 174	6.00 (7.40)
176	93.00 - 101.00% of mass 174	75.60 (93.14)
177	5.00 - 9.00% of mass 176	4.82 (6.37)

Date : 12-AUG-2021 15:23

Client ID: BFB Instrument: msd3.i

Sample Info: 200mL #3234-66;BFB;BFB

Volume Injected (uL): 1.0 Operator: LD

Column phase: Column diameter: 2.00

Data File: 3081201.d
Spectrum: Avg. Scans 892-894 (10,20), Background Scan 884
Location of Maximum: 95.00
Number of points: 124

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	3650	68.00	33888	110.00	389	152.00	81
37.00	21688	69.00	34520	111.00	375	153.00	140
38.00	19048	70.00	2756	112.00	283	154.00	261
39.00	7223	71.00	69	113.00	445	155.00	771
40.00	93	72.00	1726	115.00	404	156.00	75
41.00	132	73.00	15187	116.00	1294	157.00	637
42.00	180	74.00	57320	117.00	2381	159.00	364
43.00	172	75.00	164928	118.00	1482	161.00	413
44.00	1743	76.00	14113	119.00	2012	162.00	67
45.00	3767	77.00	1805	124.00	274	171.00	82
46.00	398	78.00	868	126.00	146	172.00	794
47.00	4275	79.00	11983	127.00	343	173.00	1686
48.00	2581	80.00	3462	128.00	1303	174.00	261056
49.00	18080	81.00	12150	129.00	745	175.00	19304
50.00	83568	82.00	2646	130.00	1317	176.00	243136
51.00	25568	83.00	415	131.00	655	177.00	15490
52.00	1141	86.00	361	133.00	134	178.00	476
53.00	237	87.00	12055	134.00	147	191.00	255
54.00	241	88.00	10864	135.00	815	192.00	82
55.00	1631	91.00	1618	136.00	83	193.00	96
56.00	7328	92.00	9647	137.00	803	207.00	44
57.00	11199	93.00	14687	140.00	292	208.00	78
58.00	558	94.00	40648	141.00	4061	232.00	156
59.00	83	95.00	321600	142.00	437	253.00	217
60.00	3958	96.00	21720	143.00	3832	254.00	70
61.00	18832	97.00	721	144.00	175	255.00	69
62.00	18192	98.00	91	145.00	461	269.00	313
63.00	13505	103.00	278	146.00	559	271.00	73
64.00	1528	104.00	1637	147.00	339		
65.00	439	105.00	538	148.00	874		
66.00	91	106.00	1653	149.00	103		
67.00	913	107.00	348	150.00	449		

US32TAR1

Data file : /chem/msd3.i/02SEP21.b/3090202.d
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 02-SEP-2021 09:50
Operator : LD Inst ID: msd3.i
Smp Info : 200mL #3234-66;BFB;BFB
Misc Info : 36ng
Comment :
Method : /chem/msd3.i/02SEP21.b/bfb30.m
Meth Date : 02-Sep-2021 09:30 lk8g Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 12 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Sample Matrix: WATER
Processing Host: us32tar1

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vf	1.00000	Volumetric correction factor
Vi	1.00000	Injection Volume

Cpnd Variable Local Compound Variable

RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
10.195	10.195	0.000	95	287424			100.00- 100.00	100.00
10.195	10.195	0.000	50	77213			8.00- 40.00	26.86
10.195	10.195	0.000	75	147349			30.00- 66.00	51.27
10.195	10.195	0.000	96	19100			5.00- 9.00	6.65
10.195	10.195	0.000	173	2541			0.00- 1.99	1.09
10.195	10.195	0.000	174	232810			50.01- 120.00	81.00
10.195	10.195	0.000	175	16978			4.00- 9.00	7.29
10.195	10.195	0.000	176	216704			93.00- 101.00	93.08
10.195	10.195	0.000	177	14756			5.00- 9.00	6.81

Data File: /chem/msd3.i/02SEP21.b/3090202.d

Date : 02-SEP-2021 09:50

Client ID: BFB

Instrument: msd3.i

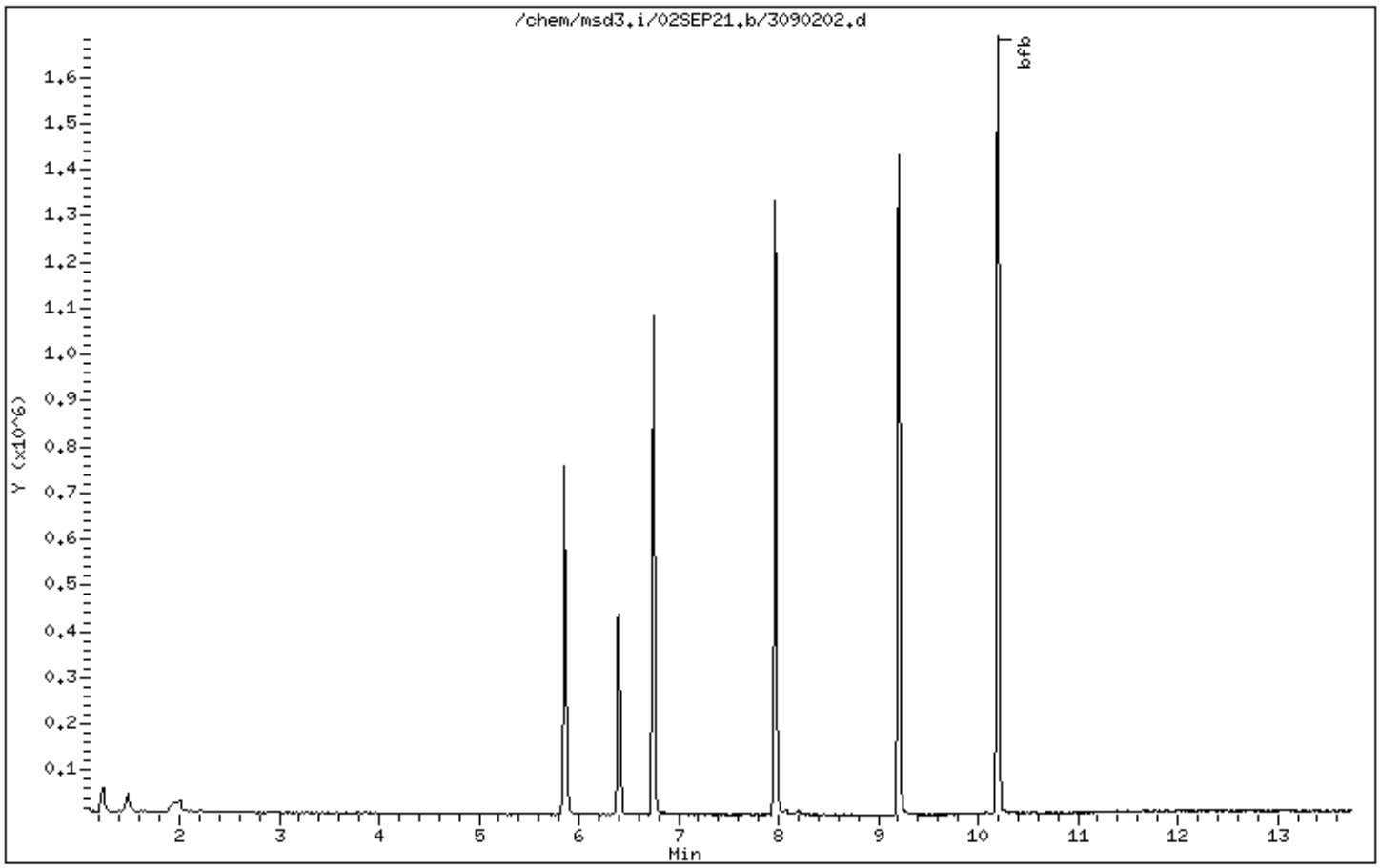
Sample Info: 200mL #3234-66;BFB;BFB

Volume Injected (uL): 1.0

Operator: LD

Column phase:

Column diameter: 2.00



Data File: /chem/msd3.i/02SEP21.b/3090202.d

Date : 02-SEP-2021 09:50

Client ID: BFB

Instrument: msd3.i

Sample Info: 200mL #3234-66;BFB;BFB

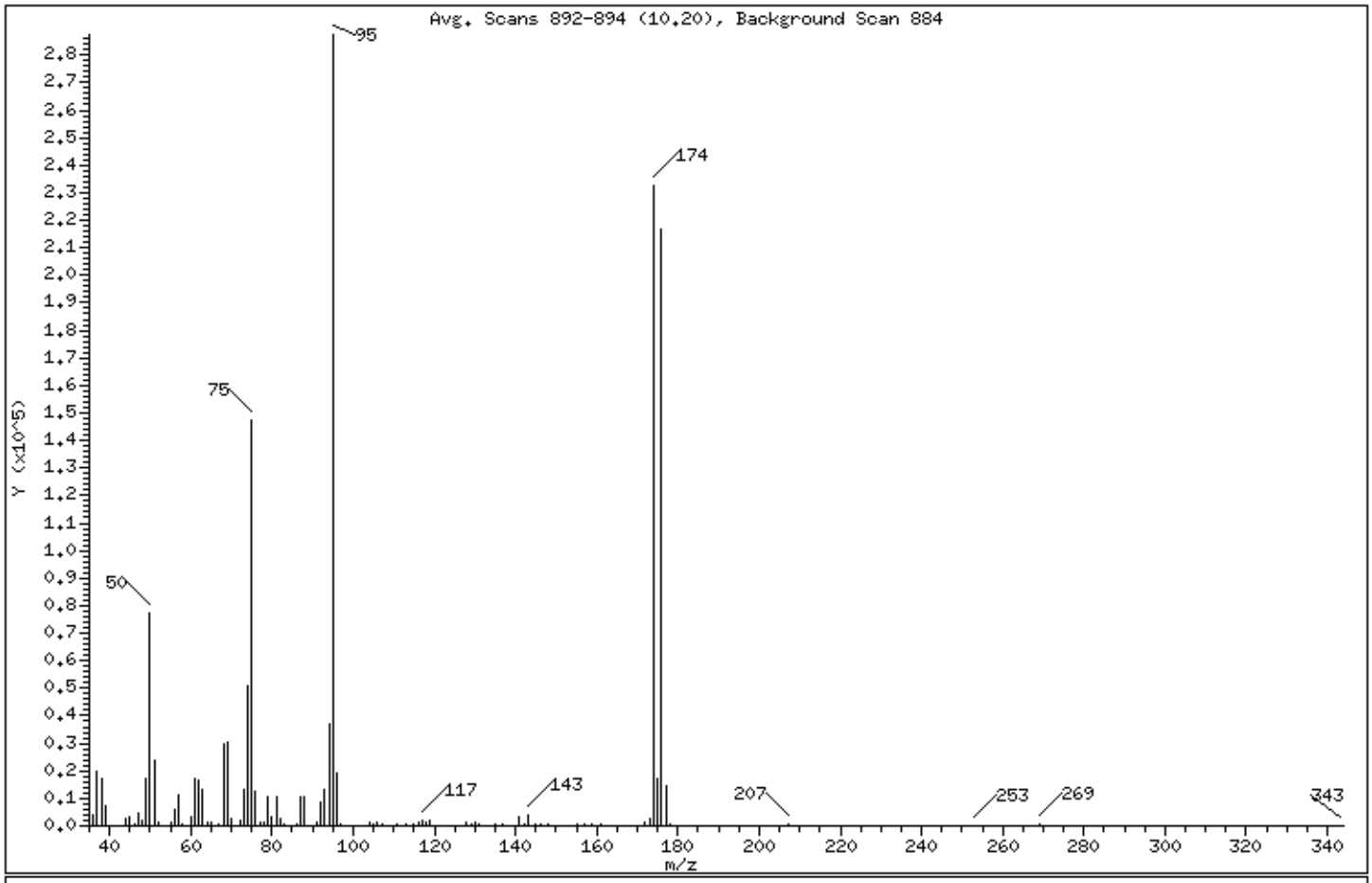
Volume Injected (uL): 1.0

Operator: LD

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	26.86
75	30.00 - 66.00% of mass 95	51.27
96	5.00 - 9.00% of mass 95	6.65
173	Less than 1.99% of mass 174	0.88 (1.09)
174	50.01 - 120.00% of mass 95	81.00
175	4.00 - 9.00% of mass 174	5.91 (7.29)
176	93.00 - 101.00% of mass 174	75.40 (93.08)
177	5.00 - 9.00% of mass 176	5.13 (6.81)

Date : 02-SEP-2021 09:50

Client ID: BFB Instrument: msd3.i

Sample Info: 200mL #3234-66;BFB;BFB

Volume Injected (uL): 1.0 Operator: LD

Column phase: Column diameter: 2.00

Data File: 3090202.d
Spectrum: Avg. Scans 892-894 (10,20), Background Scan 884
Location of Maximum: 95.00
Number of points: 120

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	3689	68.00	29568	111.00	394	150.00	232
37.00	19936	69.00	30464	112.00	271	152.00	166
38.00	17336	70.00	2572	113.00	365	153.00	305
39.00	7199	72.00	1705	115.00	408	154.00	95
40.00	230	73.00	13066	116.00	1300	155.00	872
41.00	99	74.00	51032	117.00	2122	156.00	85
42.00	267	75.00	147328	118.00	1211	157.00	656
43.00	178	76.00	12314	119.00	2037	158.00	84
44.00	2340	77.00	1635	122.00	71	159.00	391
45.00	3573	78.00	1253	123.00	73	161.00	352
46.00	406	79.00	10599	124.00	143	163.00	75
47.00	4340	80.00	3374	126.00	99	171.00	181
48.00	2237	81.00	10820	127.00	62	172.00	1574
49.00	16856	82.00	2600	128.00	1198	173.00	2541
50.00	77208	83.00	482	129.00	523	174.00	232768
51.00	23688	86.00	396	130.00	1283	175.00	16976
52.00	1108	87.00	10596	131.00	544	176.00	216704
53.00	125	88.00	10449	134.00	75	177.00	14756
54.00	85	91.00	1304	135.00	736	178.00	465
55.00	1248	92.00	8853	136.00	66	191.00	176
56.00	5930	93.00	13169	137.00	654	195.00	68
57.00	10951	94.00	36760	140.00	286	207.00	420
58.00	468	95.00	287424	141.00	3355	208.00	144
60.00	3231	96.00	19096	142.00	402	253.00	172
61.00	17016	97.00	646	143.00	3873	255.00	71
62.00	16552	103.00	297	144.00	188	269.00	348
63.00	13136	104.00	1562	145.00	627	343.00	76
64.00	1622	105.00	509	146.00	519		
65.00	1245	106.00	1365	147.00	313		
66.00	72	107.00	385	148.00	878		
67.00	970	110.00	282	149.00	175		

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Data file : /chem/msd3.i/09SEP21.b/3090902.d
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 09-SEP-2021 10:53
Operator : LD Inst ID: msd3.i
Smp Info : 200mL #3234-66;BFB;BFB
Misc Info : 36ng
Comment :
Method : /chem/msd3.i/09SEP21.b/bfb30.m
Meth Date : 07-Sep-2021 09:51 lk8g Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 12 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Sample Matrix: WATER

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vf	1.00000	Volumetric correction factor
Vi	1.00000	Injection Volume

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
10.195	10.195	0.000	95	293184			100.00- 100.00	100.00
10.195	10.195	0.000	50	66552			8.00- 40.00	22.70
10.195	10.195	0.000	75	136512			30.00- 66.00	46.56
10.195	10.195	0.000	96	19168			5.00- 9.00	6.54
10.195	10.195	0.000	173	2483			0.00- 1.99	0.98
10.195	10.195	0.000	174	253184			50.01- 120.00	86.36
10.195	10.195	0.000	175	17776			4.00- 9.00	7.02
10.195	10.195	0.000	176	235648			93.00- 101.00	93.07
10.195	10.195	0.000	177	15363			5.00- 9.00	6.52

Data File: /chem/msd3.i/09SEP21.b/3090902.d

Date : 09-SEP-2021 10:53

Client ID: BFB

Instrument: msd3.i

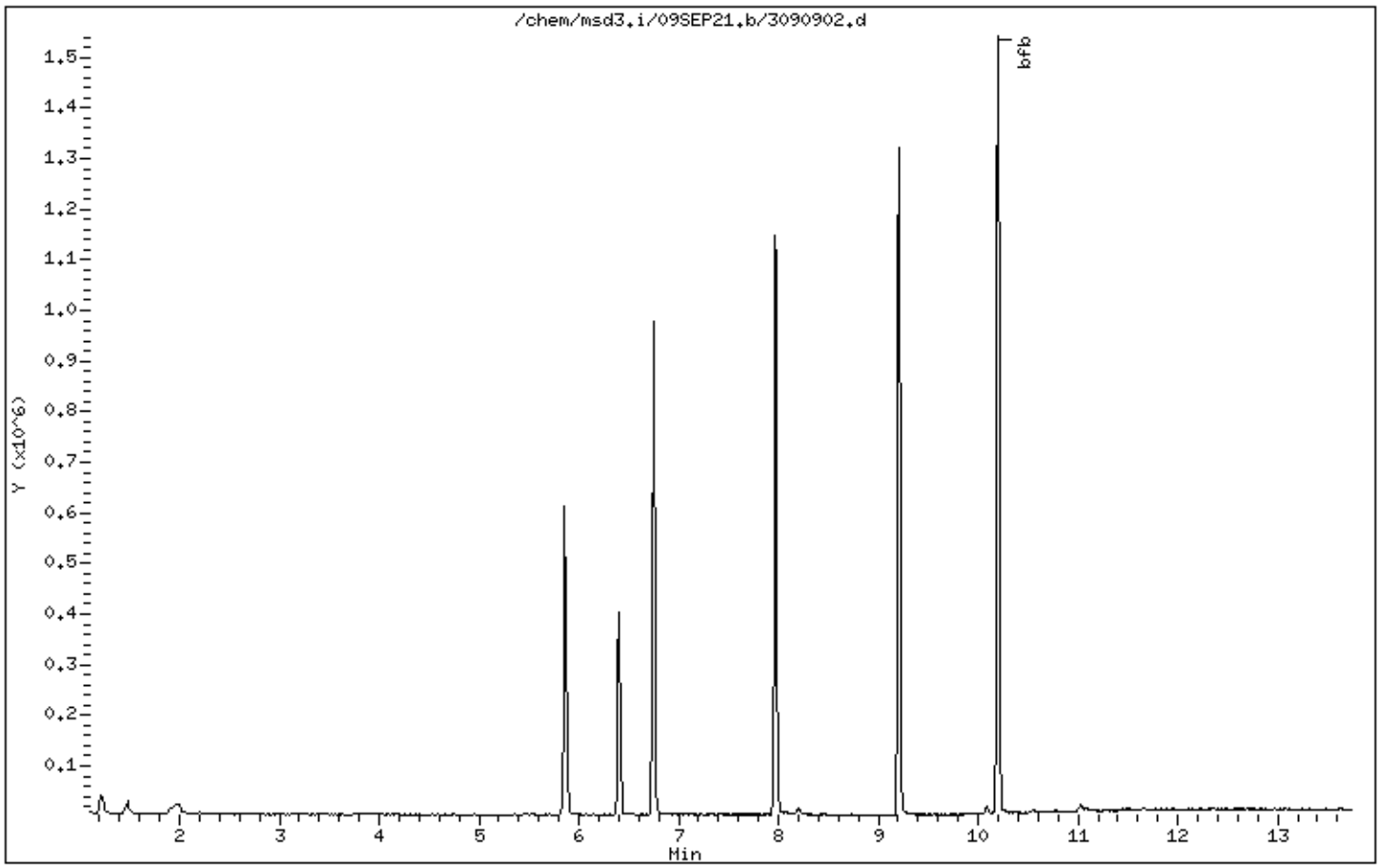
Sample Info: 200mL #3234-66;BFB;BFB

Volume Injected (uL): 1.0

Operator: LD

Column phase:

Column diameter: 2.00



Data File: /chem/msd3.i/09SEP21.b/3090902.d

Date : 09-SEP-2021 10:53

Client ID: BFB

Instrument: msd3.i

Sample Info: 200mL #3234-66;BFB;BFB

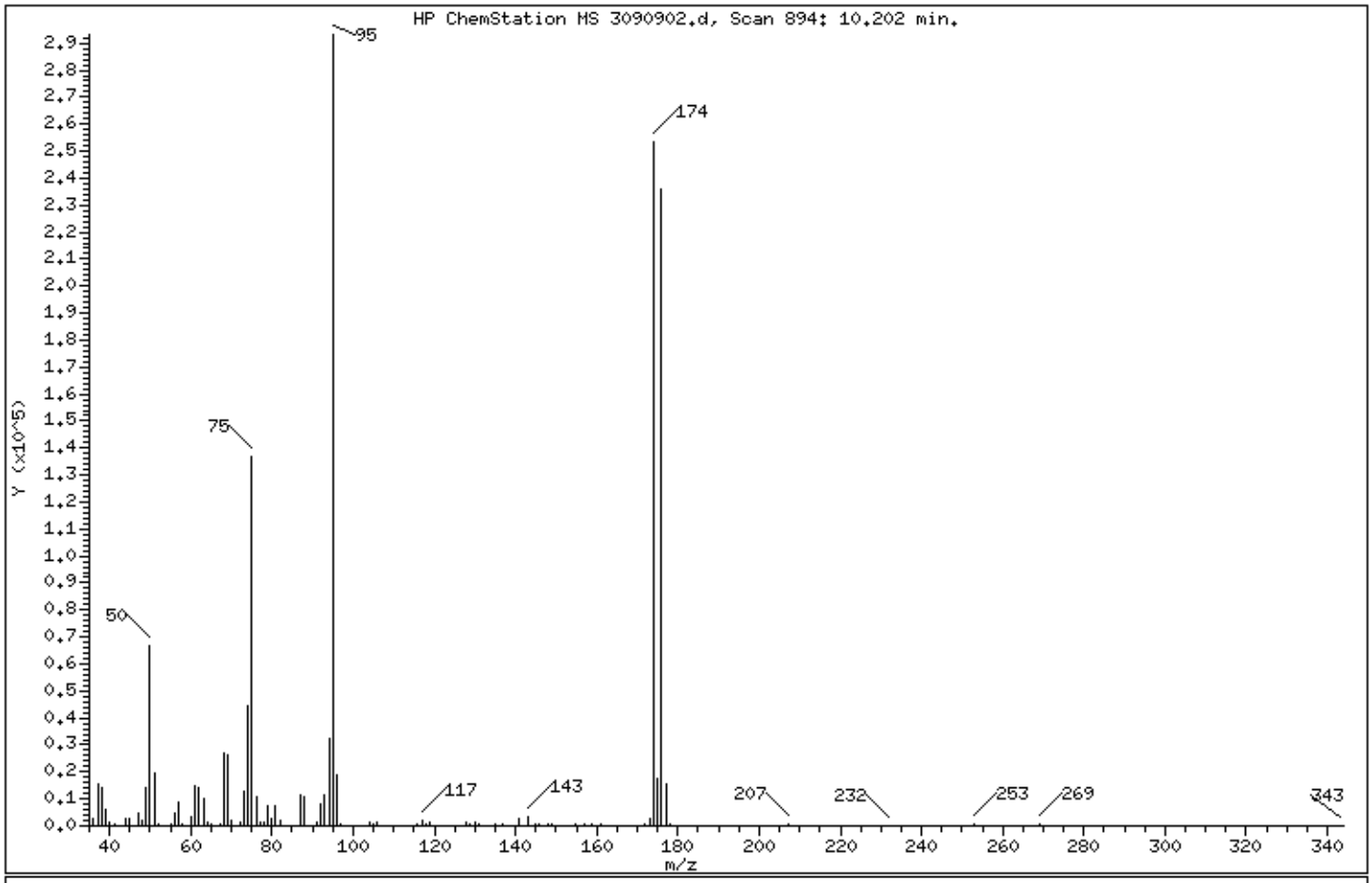
Volume Injected (uL): 1.0

Operator: LD

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	22.70
75	30.00 - 66.00% of mass 95	46.56
96	5.00 - 9.00% of mass 95	6.54
173	Less than 1.99% of mass 174	0.85 (0.98)
174	50.01 - 120.00% of mass 95	86.36
175	4.00 - 9.00% of mass 174	6.06 (7.02)
176	93.00 - 101.00% of mass 174	80.38 (93.07)
177	5.00 - 9.00% of mass 176	5.24 (6.52)

Date : 09-SEP-2021 10:53

Client ID: BFB Instrument: msd3.i

Sample Info: 200mL #3234-66;BFB;BFB

Volume Injected (uL): 1.0 Operator: LD

Column phase: Column diameter: 2.00

Data File: 3090902.d
Spectrum: HP ChemStation MS 3090902.d, Scan 894: 10.202 min.
Location of Maximum: 95.00
Number of points: 104

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2809	67.10	686	103.90	1157	149.00	497
37.10	15219	68.00	27200	104.90	402	149.80	323
38.10	14179	69.00	26408	105.90	1216	152.00	235
39.10	5969	70.00	1957	106.90	264	153.00	276
40.00	1063	72.00	1548	110.90	289	153.90	226
41.10	541	73.00	12803	111.90	260	154.90	804
42.00	281	74.00	44408	112.80	233	156.90	419
42.90	306	75.00	136512	114.90	321	158.90	430
44.10	2473	76.10	10586	115.90	988	160.90	396
45.00	2595	77.00	1546	116.90	1982	171.80	939
46.20	213	78.00	1239	117.90	988	173.00	2483
47.00	4577	78.90	7182	119.00	1504	174.00	253184
48.10	2122	79.90	2570	127.00	225	175.00	17776
49.00	13953	80.90	7619	127.90	1262	176.00	235648
50.00	66552	81.90	1731	128.90	413	177.00	15363
51.10	19792	82.90	298	129.90	1089	177.90	413
52.10	1010	86.00	267	130.90	476	191.00	201
55.10	822	87.00	11538	134.90	728	207.00	859
56.00	4775	88.00	10918	136.80	512	232.00	227
57.10	8874	90.90	1078	140.00	231	253.10	489
58.00	438	92.00	8141	140.90	3007	259.90	306
60.00	3191	93.00	11749	141.90	330	269.10	908
61.00	14560	94.00	32264	142.90	3239	343.00	221
62.00	14047	95.00	293184	145.00	411		
63.10	10238	96.00	19168	145.90	493		
64.00	1234	97.10	693	147.00	307		
65.00	723	102.90	220	147.90	863		

US32TAR1

EPA TO-15/MODIFIED TO14A

Data file : /chem/msd3.i/09SEP21.b/3090906.d
Lab Smp Id: CCV Client Smp ID: CCV
Inj Date : 09-SEP-2021 13:02
Operator : LD Inst ID: msd3.i
Smp Info : 100mL 3018-2127A
Misc Info : 50ppbv (100ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msd3.i/09SEP21.b/321q0812b.m
Meth Date : 09-Sep-2021 15:48 lk8g Quant Type: ISTD
Cal Date : 02-SEP-2021 10:33 Cal File: 3090203.d
Als bottle: 11 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT20spCCV.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 90 Bromochloromethane					CAS #: 74-97-5		
5.858	5.858 (1.000)	130	217946	25.0000		80.00- 120.00	100.00
5.858	5.858 (1.000)	128	169215			47.29- 107.29	77.64
5.858	5.858 (1.000)	49	360051			122.83- 182.83	165.20
* 108 1,4-Difluorobenzene					CAS #: 540-36-3		
6.750	6.750 (1.000)	114	822335	25.0000		80.00- 120.00	100.00
6.750	6.750 (1.000)	88	124101			0.00- 45.09	15.09
* 153 Chlorobenzene-d5					CAS #: 3114-55-4		
9.207	9.207 (1.000)	117	794045	25.0000		80.00- 120.00	100.00
9.207	9.207 (1.000)	82	423428			23.62- 83.62	53.33
$ 104 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
6.404	6.404 (1.093)	65	286798	25.0000	23.619	80.00- 120.00	100.00
6.404	6.404 (1.093)	67	143983			20.51- 80.51	50.20
$ 134 Toluene-d8					CAS #: 2037-26-5		
7.967	7.967 (1.180)	98	846514	25.0000	25.544	80.00- 120.00	100.00
7.967	7.967 (1.180)	70	91678			0.00- 42.00	10.83

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
$ 134 Toluene-d8 (continued)							
7.967	7.967 (1.180)	100	576140			37.14- 97.14	68.06
$ 170 4-Bromofluorobenzene					CAS #: 460-00-4		
10.195	10.195 (1.107)	174	504550	25.0000	24.303	80.00- 120.00	100.00
10.195	10.195 (1.107)	95	625171			92.25- 152.25	123.91
10.195	10.195 (1.107)	176	469733			63.07- 123.07	93.10
3 Freon 143a					CAS #: 420-46-2		
1.521	1.521 (0.260)	65	185358	50.0000	41.306	80.00- 120.00	100.00
1.521	1.521 (0.260)	69	490125			217.09- 277.09	264.42
1.521	1.521 (0.260)	64	47330			0.00- 55.87	25.53
6 Propane					CAS #: 74-98-6		
1.619	1.619 (0.276)	43	106697	50.0000	46.982	80.00- 120.00	100.00
1.619	1.619 (0.276)	39	71106			41.62- 101.62	66.64
1.619	1.619 (0.276)	41	58181			22.97- 82.97	54.53
13 Freon 142b					CAS #: 75-68-3		
1.842	1.842 (0.315)	65	582333	50.0000	40.574	80.00- 120.00	100.00
1.842	1.842 (0.315)	45	164422			0.00- 58.17	28.24
36 1-Pentene					CAS #: 109-67-1		
2.920	2.920 (0.498)	55	391926	50.0000	47.127	80.00- 120.00	100.00
2.920	2.920 (0.498)	42	516154			99.17- 159.17	131.70
40 Freon 123a					CAS #: 354-23-4		
3.423	3.423 (0.584)	117	461862	50.0000	45.333	80.00- 120.00	100.00
3.423	3.423 (0.584)	67	601640			103.13- 163.13	130.26
41 Freon 123					CAS #: 306-83-2		
3.521	3.521 (0.601)	83	676927	50.0000	47.048	80.00- 120.00	100.00
3.521	3.521 (0.601)	133	148524			0.00- 51.81	21.94
3.521	3.521 (0.601)	85	445044			37.13- 97.13	65.74
55 Cyclopentene					CAS #: 142-29-0		
4.123	4.123 (0.704)	67	708951	50.0000	48.200	80.00- 120.00	100.00
4.123	4.123 (0.704)	68	270424			7.90- 67.90	38.14
4.123	4.123 (0.704)	53	183269			0.00- 54.87	25.85
56 Methyl Acetate					CAS #: 79-20-9		
4.151	4.151 (0.709)	43	775788	50.0000	49.133	80.00- 120.00	100.00
4.151	4.151 (0.709)	74	127761			0.00- 47.15	16.47
74 Chloroprene					CAS #: 126-99-8		
5.088	5.088 (0.869)	53	642099	50.0000	48.386	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
74 Chloroprene (continued)							
5.088	5.088 (0.869)	88	277087			12.33- 72.33	43.15
5.088	5.088 (0.869)	50	161997			0.00- 57.62	25.23
75 1-Propanol					CAS #: 71-23-8		
5.144	5.144 (0.878)	59	92737	50.0000	52.227	80.00- 120.00	100.00
5.144	5.144 (0.878)	42	84376			53.89- 113.89	90.98
5.144	5.144 (0.878)	41	52409			24.09- 84.09	56.51
88 Methyl Acrylate					CAS #: 96-33-3		
5.704	5.704 (0.974)	55	837202	50.0000	54.199	80.00- 120.00	100.00
5.704	5.704 (0.974)	85	106293			0.00- 43.24	12.70
5.704	5.704 (0.974)	58	70846			0.00- 38.83	8.46
103 Isobutanol					CAS #: 78-83-1		
6.306	6.306 (1.076)	39	103482	50.0000	44.226	80.00- 120.00	100.00
6.306	6.306 (1.076)	43	452165			327.69- 387.69	436.95
6.306	6.306 (1.076)	41	322372			237.56- 297.56	311.52
113 Ethyl acrylate					CAS #: 140-88-5		
7.036	7.036 (0.764)	99	64680	50.0000	49.149	80.00- 120.00	100.00
7.029	7.029 (0.763)	45	112265			124.67- 184.67	173.57
7.029	7.029 (0.763)	55	1150065			1601.30-1661.30	1778.08
115 2-Pentanone					CAS #: 107-87-9		
7.129	7.129 (0.774)	43	1409553	50.0000	53.775	80.00- 120.00	100.00
7.129	7.129 (0.774)	58	108467			0.00- 37.25	7.70
7.129	7.129 (0.774)	86	194200			0.00- 45.08	13.78
145 Butyl Acetate					CAS #: 123-86-4		
8.626	8.626 (1.278)	56	661937	50.0000	58.589	80.00- 120.00	100.00
8.626	8.626 (1.278)	73	212584			5.16- 65.16	32.12
8.626	8.626 (1.278)	43	1636918			214.00- 274.00	247.29
157 1,1,1,2-Tetrachloroethane					CAS #: 630-20-6		
9.293	9.293 (1.009)	131	703870	50.0000	50.939	80.00- 120.00	100.00
9.207	9.207 (1.000)	117	794045			38.22- 98.22	112.81
9.293	9.293 (1.009)	95	252872			7.54- 67.54	35.93
166 2-Heptanone					CAS #: 110-43-0		
9.801	9.801 (1.673)	58	1002296	50.0000	61.741	80.00- 120.00	100.00
9.801	9.801 (1.673)	43	1677116			133.36- 193.36	167.33
172 D-Limonene					CAS #: 5989-27-5		
11.026	11.026 (1.198)	68	803021	50.0000	57.716	80.00- 120.00	100.00
11.026	11.026 (1.198)	93	577545			42.08- 102.08	71.92

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
186 4-Chlorotoluene					CAS #: 106-43-4		
10.575	10.575 (1.149)	126	638082	50.0000	52.533	80.00- 120.00	100.00
10.575	10.575 (1.149)	91	2056169			305.94- 365.94	322.24
10.575	10.575 (1.149)	63	264876			15.44- 75.44	41.51
197 1,2,3-Trimethylbenzene					CAS #: 526-73-8		
11.212	11.212 (1.218)	120	860116	50.0000	53.579	80.00- 120.00	100.00
11.212	11.212 (1.218)	105	2008156			206.43- 266.43	233.48
11.212	11.212 (1.218)	77	227121			0.00- 58.29	26.41
205 Hexachloroethane					CAS #: 67-72-1		
11.728	11.728 (1.274)	201	510641	50.0000	53.128	80.00- 120.00	100.00
11.728	11.728 (1.274)	117	706356			109.77- 169.77	138.33
208 1,3,5-Trichlorobenzene					CAS #: 108-70-3		
12.387	12.387 (1.345)	180	1201882	50.0000	49.265	80.00- 120.00	100.00
12.387	12.387 (1.345)	182	1146733			65.79- 125.79	95.41
210 alpha-Pinene					CAS #: 80-56-8		
9.966	9.966 (1.082)	93	1444922	50.0000	55.213	80.00- 120.00	100.00
9.966	9.966 (1.082)	77	411487			0.13- 60.13	28.48
214 beta-Pinene					CAS #: 127-91-3		
10.560	10.560 (1.147)	93	988703	50.0000	51.435	80.00- 120.00	100.00
10.575	10.575 (1.149)	91	2056169			145.95- 205.95	207.97

US32TAR1

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd3.i Injection Date: 09-SEP-2021 13:02
Lab File ID: 3090906.d Init. Cal. Date(s): 12-AUG-2021 02-SEP-2021
Analysis Type: AIR Init. Cal. Times: 16:21 10:33
Lab Sample ID: CCV Quant Type: ISTD
Method: /chem/msd3.i/09SEP21.b/321q0812b.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 104 1,2-Dichloroethane-d4	1.39287	1.31591	0.010	5.52511	30.00000	Averaged
$ 134 Toluene-d8	1.00748	1.02940	0.010	-2.17634	30.00000	Averaged
$ 170 4-Bromofluorobenzene	0.65365	0.63542	0.010	2.78899	30.00000	Averaged
3 Freon 143a	0.51475	0.42524	0.010	17.38878	30.00000	Averaged
6 Propane	0.26050	0.24478	0.010	6.03533	30.00000	Averaged
13 Freon 142b	1.64634	1.33596	0.010	18.85265	30.00000	Averaged
36 1-Pentene	0.95395	0.89914	0.010	5.74582	30.00000	Averaged
40 Freon 123a	1.16865	1.05958	0.010	9.33323	30.00000	Averaged
41 Freon 123	1.65040	1.55297	0.010	5.90331	30.00000	Averaged
55 Cyclopentene	1.68719	1.62644	0.010	3.60098	30.00000	Averaged
56 Methyl Acetate	1.81117	1.77977	0.010	1.73373	30.00000	Averaged
74 Chloroprene	1.52219	1.47307	0.010	3.22711	30.00000	Averaged
75 1-Propanol	0.20368	0.21275	0.010	-4.45419	30.00000	Averaged
88 Methyl Acrylate	1.77186	1.92067	0.010	-8.39832	30.00000	Averaged
103 Isobutanol	0.26840	0.23740	0.010	11.54743	30.00000	Averaged
113 Ethyl acrylate	0.04143	0.04073	0.010	1.70265	30.00000	Averaged
115 2-Pentanone	0.82527	0.88758	0.010	-7.55028	30.00000	Averaged
145 Butyl Acetate	0.34347	0.40247	0.010	-17.17813	30.00000	Averaged
157 1,1,1,2-Tetrachloroethane	0.43505	0.44322	0.010	-1.87785	30.00000	Averaged
166 2-Heptanone	1.86214	2.29941	0.010	-23.48258	30.00000	Averaged
172 D-Limonene	0.43806	0.50565	0.010	-15.43104	30.00000	Averaged
186 4-Chlorotoluene	0.38242	0.40179	0.010	-5.06577	30.00000	Averaged
197 1,2,3-Trimethylbenzene	0.50543	0.54160	0.010	-7.15726	30.00000	Averaged
205 Hexachloroethane	0.30261	0.32154	0.010	-6.25663	30.00000	Averaged
208 1,3,5-Trichlorobenzene	0.76810	0.75681	0.010	1.46975	30.00000	Averaged
210 alpha-Pinene	0.82394	0.90985	0.010	-10.42603	30.00000	Averaged
214 beta-Pinene	0.60520	0.62257	0.010	-2.87072	30.00000	Averaged

Report Date: 09-Sep-2021 15:48

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd3.i
Lab File ID: 3090906.d
Lab Smp Id: CCV
Analysis Type: VOA
Quant Type: ISTD
Operator: LD
Method File: /chem/msd3.i/09SEP21.b/321q0812b.m
Misc Info: 50ppbv (100ppbv)

Calibration Date: 09-SEP-2021
Calibration Time: 11:39
Client Smp ID: CCV
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	194770	116862	272678	217946	11.90
108 1,4-Difluorobenze	712592	427555	997629	822335	15.40
153 Chlorobenzene-d5	710524	426314	994734	794045	11.75

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
90 Bromochloromethan	5.86	5.53	6.19	5.86	-0.00
108 1,4-Difluorobenze	6.75	6.42	7.08	6.75	-0.00
153 Chlorobenzene-d5	9.21	8.88	9.54	9.21	-0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msd3.i/09SEP21.b/3090906.d

Date : 09-SEP-2021 13:02

Client ID: CCV

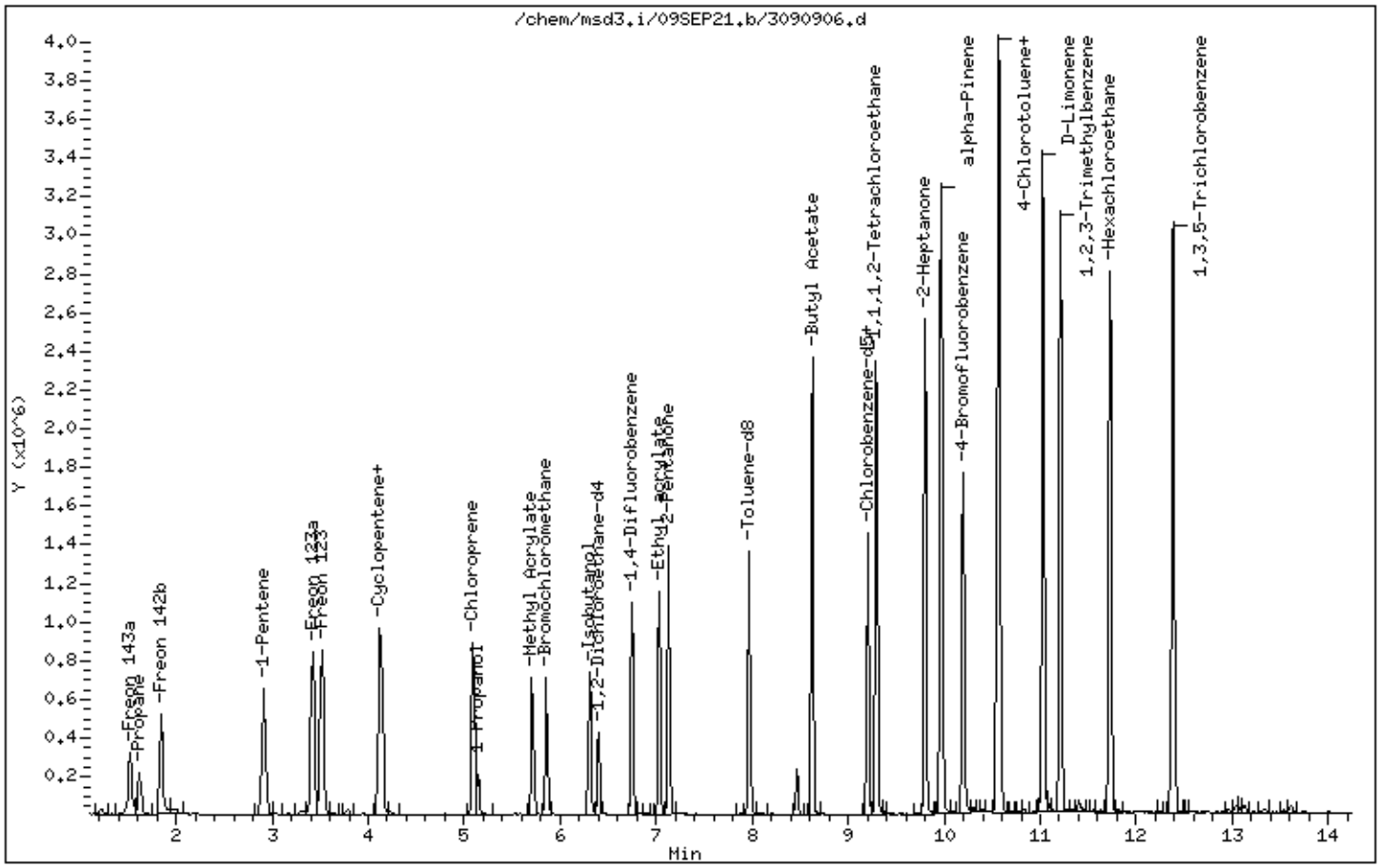
Instrument: msd3.i

Sample Info: 100mL 3018-2127A

Operator: LD

Column phase: RTX-624

Column diameter: 0.25



Shipping/Receiving Documents

eurofins | Air Toxics

Eurofins Air Toxics, Inc. Sample Receipt Confirmation Cover Page

Thank you for choosing Eurofins Air Toxics, Inc. (EATL). We have received your samples and have listed any Sample Receipt Descrepancies below.

In order to expedite analysis and reporting, please review the attached information for accuracy.

For corrections call: **Air Toxics, Ltd. at 916-985-1000**

EATL will proceed with the analysis as specified on the Chain of Custody (COC) and Sample Receipt Summary page.

Please note : The Sample Receipt Confirmation, including the total workorder charge, is subject to change upon secondary review. Our aim is to provide a confirmation to you in a timely manner. Sample Receipt Discrepancies, if any, may not include discrepancies regarding sample receipt pressure(s). Additionally, the COC will be provided with the final report.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630

(916) 985-1000 .FAX (916) 985-1020
Hours 6:30 A.M to 5:30 P.M. PST

eurofins | Air Toxics

Analysis Request /Canister Chain of Custody

For Laboratory Use Only

PID: _____ Workorder #: 408676

180 Blue Ravine Rd. Suite B, Folsom, CA 95630
Phone (800) 985-5955; Fax (916) 351-8279

page--of ---

Client: AECOM

Project Name: SMUD - [illegible]

Project Manager: A. [illegible] Project # [illegible]

Sampler: [illegible]

Site Name:

Special Instructions/Notes:

SG-VW-1A-05 ON HOLD
per e-mail from [illegible]

Turnaround Time (Rush surcharges may apply)

Standard 5 D.W. RAT Rush _____ (specify)

Lab ID	Field Sample Identification(Location)	Can #	Flow Controller #	Start Sampling Information		Stop Sampling Information		Canister Vacuum/Pressure		Lab Use Only		Requested Analyses			
				Date	Time	Date	Time	Initial (in Hg)	Final (in Hg)	Receipt	Final (psig) Gas: N_2 / He	TO-15			ON HOLD
	SG-VW-1A-05	1121704	1211	8/30/11	1040	8/30/11	1052	-30	-5			X			
ECA	SG-VW-1A-04	1121444	1211	8/30/11	1041	8/30/11	1145	-30	-5						X

Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time
[illegible]	8/30/11	1155	[illegible] EATL	8.30.11	1155
Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time
Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time

Lab Use Only

Shipper Name: [illegible] Custody Seals Intact? Yes No None

Sample Transportation Notice: Relinquishing signature on this document indicates that samples are shipped in compliance with all applicable local, State, Federal, and international laws, regulations, and ordinances of any kind. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Eurofins Air Toxics against any claim, demand, or action, of any kind, related to the collection, handling, of shipping of samples. D.O.T Hotline (800) 467-4922

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SAMPLE RECEIPT SUMMARY

WORKORDER 2108676B

Client

Mr. Robert Kohlhardt
AECOM
2020 L Street, Suite 400
Sacramento, CA 95811

Phone

916-679-2000

Fax

916-679-2900

Sales Rep: DaV

Date Promised: 09/14/21 5:00 pm
Date Completed: 9/14/21
Date Received: 8/30/21
PO#:
Project#: 60132793.6 SMUD 59th St

Total $: $ 177.50
Logged By: CH

Fraction	Sample #	Analysis	Collected	Receipt Vac./Pres.	Amount$
02A	SG-VW21A-06	TO-15	8/30/2021	7.3 "Hg	$172.50
03A	Lab Blank	TO-15	NA	NA	$0.00
04A	CCV	TO-15	NA	NA	$0.00
05A	LCS	TO-15	NA	NA	$0.00
05AA	LCSD	TO-15	NA	NA	$0.00

Misc. Charges eCVP (1) @ $5.00 each. $5.00

Note: Samples received after 3 P.M. PST are considered to be received on the following work day.
Atlas Project Name/Profile#: SMUD 59th Street Corporation Yard/25677

BILL TO: Mr. Jerry Montgomery
SWPPQueen
7202 Gloria Drive #25
Sacramento, CA 95831

Analysis Code: TO-14A

REMARKS: A 15% surcharge is applied for a 5 day turnaround time.

TERMS:

Reporting Method: TO-15 (Sp)-AECOM (SMUD 59th alphanumeric)

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Analysis Request /Canister Chain of Custody

For Laboratory Use Only

PID: _____ Workorder #: 408676

180 Blue Ravine Rd. Suite B, Folsom, CA 95630
Phone (800) 985-5955; Fax (916) 351-8279

page--of ---

Client: AECOM

Project Name: SMUD - [illegible]

Project Manager: A. [illegible] Project # [illegible]

Sampler: [illegible]

Site Name:

Special Instructions/Notes:

SG-VW-1A-05 ON HOLD
per e-mail from [illegible]

Turnaround Time (Rush surcharges may apply)

Standard 5 D.W. TAT Rush _____ (specify)

Lab ID	Field Sample Identification(Location)	Can #	Flow Controller #	Start Sampling Information		Stop Sampling Information		Canister Vacuum/Pressure		Lab Use Only		Requested Analyses			
				Date	Time	Date	Time	Initial (in Hg)	Final (in Hg)	Receipt	Final (psig) Gas: N_2 / He	TO-15			ON HOLD
	SG-VW-1A-05	1121704	1211	8/30/11	1040	8/30/11	1052	-30	-5			X			
ECA	SG-VW-1A-04	1121-44	211	8/30/11	1041	8/30/11	1145	-30	-5						X

Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time
[signature]	8/30/11	1155	[signature] TAT	8.30.11	1155
Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time
Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time

Lab Use Only

Shipper Name: FED EX | Custody Seals Intact? | Yes | No | None

Sample Transportation Notice: Relinquishing signature on this document indicates that samples are shipped in compliance with all applicable local, State, Federal, and international laws, regulations, and ordinances of any kind. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Eurofins Air Toxics against any claim, demand, or action, of any kind, related to the collection, handling, of shipping of samples. D.O.T Hotline (800) 467-4922

Other Records

Air Toxics Ltd.

Curve Response Factors
3090907.d

Compound	Ave. RF	% RSD
TPH	49830	0.00047

10 a/9/n

Air Toxics Ltd.

File Response Factors

Data File: 3090907.d
Sample #: 3234-83
Client ID: Calib
Spike Level: 500
Dilution Factor: 1

Compound	RF	RT
TPH	49830.23257456	0

Air Toxics Ltd.

List of Selected Compounds

Data File: 3090907.d
Sample #: 3234-83
Client ID: Calib
Spike Level: 500
Dilution Factor: 1

	Compounds	% Area	RT	Peak Area	10
☑	Unknown Peak 1.2268	0.23	1.227	88052	
☑	Unknown Peak 1.4786	0.35	1.479	133320	
☑	Butane	0.69	1.968	264405	
☑	Unknown Peak 2.1082	0.13	2.108	50141	
☑	Unknown Peak 2.1922	0.05	2.192	20069	
☑	Isopentane	2.59	2.612	995797	
☑	Unknown Peak 2.9058	0.04	2.906	16753	
☑	Unknown Peak 2.9757	0.88	2.976	336578	
☑	Unknown Peak 3.1856	0.17	3.186	66773	
☑	Ethanol	1.22	3.270	467773	
☑	Unknown Peak 3.4095	0.30	3.410	115028	
☑	Unknown Peak 3.5634	0.14	3.563	52464	
☑	Unknown Peak 4.1231	1.11	4.123	425126	
☑	Unknown Peak 4.1650	1.27	4.165	488620	
☑	Unknown Peak 4.2350	0.16	4.235	60626	
☑	Unknown Peak 4.4449	0.59	4.445	226771	
☑	Unknown Peak 4.6827	0.09	4.683	34426	
☑	Hexane	0.64	4.753	246883	
☑	Unknown Peak 4.8786	0.06	4.879	24799	
☑	Unknown Peak 4.9346	0.11	4.935	43228	
☑	Unknown Peak 4.9906	0.11	4.991	44079	
☑	Unknown Peak 5.0745	0.07	5.075	26676	
☑	Unknown Peak 5.1445	0.09	5.145	35560	
☑	Unknown Peak 5.2844	1.21	5.284	463196	
☑	Unknown Peak 5.3823	0.50	5.382	192761	
☑	Unknown Peak 5.4523	0.11	5.452	43147	
☑	Unknown Peak 5.8021	0.05	5.802	19796	
☑	Bromochloromethane	3.38	5.858	1298474	
☑	Tetrahydrofuran	0.58	5.956	222215	
☑	Cyclohexane	1.39	6.026	531800	
☑	Unknown Peak 6.1239	0.60	6.124	231425	
☐	2,2,4-Trimethylpentane	5.65	6.348	2170966	
☐	Benzene	0.09	6.376	33182	
☑	1,2-Dichloroethane-d4	14.71	6.404	5647702	
☑	Heptane	0.76	6.516	293525	
☑	Unknown Peak 6.6566	0.09	6.657	35486	
☑	Unknown Peak 6.6852	0.11	6.685	42892	
☑	1,4-Difluorobenzene	4.90	6.750	1879420	
☑	Unknown Peak 6.8500	0.05	6.850	17291	
☑	Unknown Peak 6.8930	0.07	6.893	25100	
☑	Unknown Peak 7.0147	1.33	7.015	510212	
☑	Methylcyclohexane	1.73	7.051	664907	
☑	Unknown Peak 7.1365	0.67	7.137	257453	
☑	Unknown Peak 7.1938	0.09	7.194	34573	
☑	Unknown Peak 7.2511	0.06	7.251	23600	
☑	Unknown Peak 7.3801	4.07	7.380	1563097	
☑	Unknown Peak 7.4947	6.08	7.495	2333352	
☑	Unknown Peak 7.6523	0.54	7.652	208358	
☑	Unknown Peak 7.7884	1.46	7.788	560905	
☑	Unknown Peak 7.8672	0.17	7.867	66082	
☑	Toluene-d8	5.99	7.967	2298577	
☐	4-Methyl-2-pentanone	0.02	7.967	8806	

Air Toxics Ltd.

List of Selected Compounds

Data File: 3090907.d
Sample #: 3234-83
Client ID: Calib
Spike Level: 500
Dilution Factor: 1

	Compounds	% Area	RT	Peak Area	10
☑	Toluene	4.00	8.025	1535812	
☑	Unknown Peak 8.0749	0.16	8.075	62433	
☑	Unknown Peak 8.1966	0.11	8.197	42489	
☑	Unknown Peak 8.2683	0.29	8.268	109609	
☑	Unknown Peak 8.3972	0.06	8.397	24528	
☑	Unknown Peak 8.4975	0.14	8.498	54171	
☑	Unknown Peak 8.6622	0.08	8.662	29042	
☑	Unknown Peak 8.7983	0.05	8.798	20561	
☑	Unknown Peak 8.8485	0.14	8.849	54378	
☑	Unknown Peak 8.9488	0.09	8.949	34207	
☑	Unknown Peak 9.0347	0.10	9.035	38106	
☑	Unknown Peak 9.0777	0.07	9.078	27963	
☑	Unknown Peak 9.1350	0.19	9.135	73356	
☑	Chlorobenzene-d5	6.34	9.207	2432847	
☑	Ethyl Benzene	0.99	9.278	378760	
☑	m,p-Xylene	2.85	9.371	1094710	
☑	Unknown Peak 9.5075	0.05	9.508	19583	
☑	o-Xylene	1.06	9.715	408540	
☑	Cumene	0.33	10.009	126146	
☑	Unknown Peak 10.044	0.45	10.045	173588	
☑	Unknown Peak 10.094	0.08	10.095	32468	
☑	4-Bromofluorobenzene	7.75	10.195	2975505	
☑	Propylbenzene	0.24	10.353	91923	
☑	4-Ethyltoluene	1.25	10.424	478226	
☑	1,3,5-Trimethylbenzene	0.37	10.503	143677	
☑	Unknown Peak 10.675	0.65	10.675	250989	
☑	Unknown Peak 10.789	0.16	10.790	59752	
☑	1,2,4-Trimethylbenzene	1.01	10.833	386228	
☑	Unknown Peak 10.911	0.42	10.911	162271	
☑	Unknown Peak 10.990	0.03	10.990	11950	
☑	Unknown Peak 11.033	0.14	11.033	52550	
☑	Unknown Peak 11.119	0.63	11.119	241977	
☑	Unknown Peak 11.212	0.24	11.212	90954	
☑	Unknown Peak 11.298	0.23	11.298	89717	
☑	Unknown Peak 11.355	0.05	11.356	19393	
☑	Unknown Peak 11.405	0.39	11.406	147974	
☑	Unknown Peak 11.506	0.06	11.506	22568	
☑	Unknown Peak 11.584	0.03	11.585	11242	
☑	Unknown Peak 11.656	0.13	11.656	51769	
☑	Unknown Peak 11.742	0.14	11.742	52896	
☑	Unknown Peak 11.821	0.05	11.821	19962	
☑	Unknown Peak 11.878	0.08	11.879	32259	
☑	Unknown Peak 12.014	0.06	12.015	21415	
☑	Unknown Peak 12.100	0.16	12.101	62106	
☑	Unknown Peak 12.157	0.09	12.158	32830	
☑	Unknown Peak 12.351	0.04	12.351	15323	
☑	Unknown Peak 12.430	0.06	12.430	22910	
☑	Unknown Peak 12.601	0.14	12.602	54031	
☑	Unknown Peak 12.902	0.03	12.903	12504	
☑	Unknown Peak 13.060	0.09	13.060	34565	
☑	Unknown Peak 13.361	0.07	13.361	25549	

Air Toxics Ltd.

File Results

Data File: File Information: 3090917.d
Sample #: 2108676B-02A
Client ID:
Spike Level: 0
Dilution Factor: 2.22

Compound	Amount (ppbv)	(Area - Blank Area)/ RF * DF
TNMOC (Ref. to Gasolin	130	(14130048.3914079 - 11262492.4366287 / 4983(

Air Toxics Ltd.

List of Selected Compounds

Data File: File Information: 3090917.d
Sample #: 2108676B-02A
Client ID:
Spike Level: 0
Dilution Factor: 2.22

	Compounds	RT	Peak Area	10
	Unknown Peak 1.1986	1.199	1500382	
	Unknown Peak 1.4085	1.409	116287	
	Unknown Peak 1.4505	1.451	5434236	
	1,1-Difluoroethane	1.632	196290	
✓	Freon 12	1.688	1972964	
✓	Unknown Peak 1.8423	1.842	34017	
✓	Unknown Peak 1.9542	1.954	66492	
	Unknown Peak 2.1921	2.192	44493	
✓	Freon 11	2.878	15503	
✓	Ethanol	3.325	1389	
✓	Unknown Peak 3.4094	3.409	17716	
	Acetone	3.801	93351	
	Carbon Disulfide	3.843	13353	
✓	Unknown Peak 3.8851	3.885	47358	
	2-Propanol	4.011	94476	
✓	Unknown Peak 4.1509	4.151	21507	
✓	Unknown Peak 4.4447	4.445	33189	
✓	Hexane	4.739	179416	
✓	Unknown Peak 5.3822	5.382	30601	
✓	Unknown Peak 5.4801	5.480	19317	
	2-Butanone (Methyl Ethyl Ketone)	5.676	17866	
✓	Bromochloromethane	5.858	1034763	
	Chloroform	5.914	417895	
	1,1,1-Trichloroethane	6.040	86920	
✓	Unknown Peak 6.1098	6.110	41723	
✓	Unknown Peak 6.3057	6.306	25009	
✓	Benzene	6.376	6199	
✓	1,2-Dichloroethane-d4	6.404	681436	
✓	1,4-Difluorobenzene	6.750	1570207	
	Trichloroethene	6.943	85129	
✓	Unknown Peak 7.0504	7.050	17012	
✓	Unknown Peak 7.2295	7.230	11131	
✓	Unknown Peak 7.3226	7.323	12017	
✓	Unknown Peak 7.6664	7.666	20277	
✓	Toluene-d8	7.967	1883715	
✓	Toluene	8.025	144321	
✓	Unknown Peak 8.1965	8.197	20378	
✓	Unknown Peak 8.2610	8.261	33898	
	Tetrachloroethene	8.462	739203	
✓	Unknown Peak 8.6120	8.612	31306	
✓	Unknown Peak 8.6764	8.676	96244	
✓	Unknown Peak 8.7910	8.791	43129	
✓	Unknown Peak 9.0059	9.006	34091	
✓	Chlorobenzene-d5	9.207	2127574	
✓	Ethyl Benzene	9.271	108931	
✓	m,p-Xylene	9.371	141071	
✓	Unknown Peak 9.4286	9.429	18912	
✓	Unknown Peak 9.5432	9.543	14262	
✓	Unknown Peak 9.6148	9.615	26033	
✓	o-Xylene	9.722	32381	
✓	Unknown Peak 9.8225	9.823	21049	
✓	Unknown Peak 9.9013	9.901	19275	

Air Toxics Ltd.

List of Selected Compounds

Data File: File Information: 3090917.d
Sample #: 2108676B-02A
Client ID:
Spike Level: 0
Dilution Factor: 2.22

	Compounds	RT	Peak Area	10
☐	Unknown Peak 9.9658	9.966	51051	☐
☐	Unknown Peak 10.087	10.088	57911	☐
☑	4-Bromofluorobenzene	10.202	2469377	☐
☑	Unknown Peak 10.259	10.260	69817	☐
☑	Propylbenzene	10.360	34105	☐
☑	4-Ethyltoluene	10.431	122685	☐
☑	1,3,5-Trimethylbenzene	10.503	49224	☐
☐	Unknown Peak 10.560	10.560	56039	☐
☑	Unknown Peak 10.703	10.704	46779	☐
☑	1,2,4-Trimethylbenzene	10.833	103636	☐
☑	Unknown Peak 10.94	10.940	25277	☐
☐	Unknown Peak 11.033	11.033	60836	☐
☑	Unknown Peak 11.083	11.083	69272	☐
☑	Unknown Peak 11.212	11.212	40512	☐
☑	Unknown Peak 11.255	11.255	21363	☐
☑	Unknown Peak 11.405	11.406	59131	☐
☑	Unknown Peak 11.455	11.456	24156	☐
☐	Unknown Peak 11.513	11.513	20069	☐
☑	Unknown Peak 11.591	11.592	12462	☐
☐	Unknown Peak 11.656	11.656	85791	☐
☑	Unknown Peak 11.720	11.721	41715	☐
☑	Unknown Peak 11.749	11.749	30006	☐
☑	Unknown Peak 11.835	11.835	13874	☐
☑	Unknown Peak 11.885	11.886	21159	☐
☑	Unknown Peak 12.007	12.007	64036	☐
☑	Unknown Peak 12.164	12.165	27646	☐
☑	Unknown Peak 12.351	12.351	23823	☐
☑	Unknown Peak 12.594	12.595	22470	☐
☑	Unknown Peak 12.909	12.910	14312	☐
☑	Unknown Peak 13.053	13.053	19583	☐
☑	Unknown Peak 13.253	13.254	32129	☐
☐	Unknown Peak 13.396	13.397	41442	☐
☑	Unknown Peak 13.633	13.633	15685	☐
☐	Unknown Peak 13.898	13.898	11493	☐
☐	Unknown Peak 14.020	14.020	10533	☐
☐	Unknown Peak 14.170	14.171	13855	☐

Dilution Factor = $\frac{\text{Final Pressure}}{\text{Initial Vacuum}} = \frac{\text{14.7psi + Final Pressure (psi)}}{\text{14.7psi –[Init. Pressure (“Hg))*(14.7psi/30”Hg)]}}$

Dilution Factor = $\frac{\text{Final Pressure}}{\text{Initial Pressure}} = \frac{\text{14.7psi + Final Pressure (psi)}}{\text{14.7psi +Initial Pressure (psi)}}$

Initial Vacuum (" of Hg)	2 psi	5 psi	10 psi	15 psi
0.0	**1.14**	1.34	**1.68**	2.02
0.2	**1.14**	1.35	**1.69**	2.03
0.4	**1.15**	1.36	**1.70**	2.05
0.5	**1.16**	1.36	**1.71**	2.05
0.6	**1.16**	1.37	**1.71**	2.06
0.8	**1.17**	1.38	**1.73**	2.08
1.0	**1.18**	1.39	**1.74**	2.09
1.2	**1.18**	1.40	**1.75**	2.10
1.4	**1.19**	1.40	**1.76**	2.12
1.5	**1.20**	1.41	**1.77**	2.13
1.6	**1.20**	1.42	**1.77**	2.13
1.8	**1.21**	1.42	**1.79**	2.15
2.0	**1.22**	1.44	**1.80**	2.16
2.2	**1.23**	1.45	**1.81**	2.18
2.4	**1.23**	1.46	**1.83**	2.20
2.5	**1.24**	1.46	**1.83**	2.20
2.6	**1.24**	1.47	**1.84**	2.21
2.8	**1.25**	1.48	**1.85**	2.23
3.0	**1.26**	1.49	**1.87**	2.24
3.2	**1.27**	1.50	**1.88**	2.26
3.4	**1.28**	1.51	**1.90**	2.28
3.5	**1.29**	1.52	**1.90**	2.29
3.6	**1.29**	1.52	**1.91**	2.30
3.8	**1.30**	1.53	**1.92**	2.31
4.0	**1.31**	1.55	**1.94**	2.33
4.2	**1.32**	1.56	**1.95**	2.35
4.4	**1.33**	1.57	**1.97**	2.37
4.5	**1.34**	1.58	**1.98**	2.38
4.6	**1.34**	1.58	**1.98**	2.39
4.8	**1.35**	1.60	**2.00**	2.40
5.0	**1.36**	1.61	**2.02**	2.42
5.2	**1.37**	1.62	**2.03**	2.44
5.4	**1.39**	1.63	**2.05**	2.46
5.5	**1.39**	1.64	**2.06**	2.47
5.6	**1.40**	1.65	**2.07**	2.48
5.8	**1.41**	1.66	**2.08**	2.50
6.0	**1.42**	1.68	**2.10**	2.52
6.2	**1.43**	1.69	**2.12**	2.55
6.4	**1.44**	1.70	**2.14**	2.57
6.5	**1.45**	1.71	**2.15**	2.58
6.6	**1.46**	1.72	**2.15**	2.59
6.8	**1.47**	1.73	**2.17**	2.61
7.0	**1.48**	1.75	**2.19**	2.64
7.2	**1.49**	1.76	**2.21**	2.66
7.4	**1.51**	1.78	**2.23**	2.68
7.5	**1.51**	1.79	**2.24**	2.69
7.6	**1.52**	1.79	**2.25**	2.70

Initial Vacuum (" of Hg)	2 psi	5 psi	10 psi	15 psi
7.7	**1.53**	1.80	**2.26**	2.72
7.8	**1.54**	1.81	**2.27**	2.73
8.0	**1.55**	1.83	**2.29**	2.76
8.2	**1.56**	1.84	**2.31**	2.78
8.4	**1.58**	1.86	**2.33**	2.81
8.5	**1.59**	1.87	**2.34**	2.82
8.6	**1.59**	1.88	**2.36**	2.83
8.8	**1.61**	1.90	**2.38**	2.86
9.0	**1.62**	1.91	**2.40**	2.89
9.2	**1.64**	1.93	**2.42**	2.91
9.4	**1.65**	1.95	**2.45**	2.94
9.5	**1.66**	1.96	**2.46**	2.96
9.6	**1.67**	1.97	**2.47**	2.97
9.8	**1.69**	1.99	**2.50**	3.00
10.0	**1.70**	2.01	**2.52**	3.03
10.2	**1.72**	2.03	**2.55**	3.06
10.4	**1.74**	2.05	**2.57**	3.09
10.5	**1.75**	2.06	**2.59**	3.11
10.6	**1.76**	2.07	**2.60**	3.12
10.8	**1.78**	2.09	**2.63**	3.16
11.0	**1.79**	2.12	**2.65**	3.19
11.2	**1.81**	2.14	**2.68**	3.22
11.4	**1.83**	2.16	**2.71**	3.26
11.5	**1.84**	2.17	**2.72**	3.28
11.6	**1.85**	2.18	**2.74**	3.29
11.8	**1.87**	2.21	**2.77**	3.33
12.0	**1.89**	2.23	**2.80**	3.37
12.2	**1.91**	2.26	**2.83**	3.40
12.4	**1.94**	2.28	**2.86**	3.44
12.5	**1.95**	2.30	**2.88**	3.46
12.6	**1.96**	2.31	**2.90**	3.48
12.8	**1.98**	2.34	**2.93**	3.52
13.0	**2.00**	2.36	**2.97**	3.56
13.2	**2.03**	2.39	**3.00**	3.61
13.4	**2.05**	2.42	**3.04**	3.65
13.5	**2.07**	2.44	**3.06**	3.67
13.6	**2.08**	2.45	**3.07**	3.70
13.8	**2.10**	2.48	**3.11**	3.74
14.0	**2.13**	2.51	**3.15**	3.79
14.2	**2.16**	2.54	**3.19**	3.84
14.4	**2.18**	2.58	**3.23**	3.88
14.5	**2.20**	2.59	**3.25**	3.91
14.6	**2.21**	2.61	**3.27**	3.94
14.8	**2.24**	2.64	**3.32**	3.99
15.0	**2.27**	2.68	**3.36**	4.04
15.2	**2.30**	2.72	**3.41**	4.10
15.4	**2.33**	2.75	**3.45**	4.15

Initial Vacuum (" of Hg)	2 psi	5 psi	10 psi	15 psi
15.5	**2.35**	2.77	**3.48**	4.18
15.6	**2.37**	2.79	**3.50**	4.21
15.8	**2.40**	2.83	**3.55**	4.27
16.0	**2.43**	2.87	**3.60**	4.33
16.2	**2.47**	2.91	**3.65**	4.39
16.4	**2.51**	2.96	**3.71**	4.46
16.5	**2.52**	2.98	**3.73**	4.49
16.6	**2.54**	3.00	**3.76**	4.52
16.8	**2.58**	3.05	**3.82**	4.59
17.0	**2.62**	3.09	**3.88**	4.66
17.2	**2.66**	3.14	**3.94**	4.74
17.4	**2.70**	3.19	**4.00**	4.81
17.5	**2.73**	3.22	**4.03**	4.85
17.6	**2.75**	3.24	**4.07**	4.89
17.8	**2.79**	3.30	**4.13**	4.97
18.0	**2.84**	3.35	**4.20**	5.05
18.2	**2.89**	3.41	**4.27**	5.14
18.4	**2.94**	3.47	**4.35**	5.22
18.5	**2.96**	3.50	**4.38**	5.27
18.6	**2.99**	3.53	**4.42**	5.32
18.8	**3.04**	3.59	**4.50**	5.41
19.0	**3.10**	3.65	**4.58**	5.51
19.2	**3.16**	3.72	**4.67**	5.61
19.4	**3.22**	3.79	**4.76**	5.72
19.5	**3.25**	3.83	**4.80**	5.77
19.6	**3.28**	3.87	**4.85**	5.83
19.8	**3.34**	3.94	**4.94**	5.94
20.0	**3.41**	4.02	**5.04**	6.06
20.2	**3.48**	4.10	**5.14**	6.18
20.4	**3.55**	4.19	**5.25**	6.31
20.5	**3.59**	4.23	**5.31**	6.38
20.6	**3.63**	4.28	**5.36**	6.45
20.8	**3.70**	4.37	**5.48**	6.59
21.0	**3.79**	4.47	**5.60**	6.73
21.2	**3.87**	4.57	**5.73**	6.89
21.4	**3.96**	4.67	**5.86**	7.05
21.5	**4.01**	4.73	**5.93**	7.13
21.6	**4.06**	4.79	**6.00**	7.22
21.8	**4.16**	4.90	**6.15**	7.39
22.0	**4.26**	5.03	**6.30**	7.58
22.4	**4.48**	5.29	**6.63**	7.98

Initial Vacuum (" of Hg)	2 psi	5 psi	10 psi	15 psi
22.5	**4.54**	5.36	**6.72**	8.08
22.6	**4.61**	5.43	**6.81**	8.19
22.8	**4.73**	5.58	**7.00**	8.42
23.0	**4.87**	5.74	**7.20**	8.66
23.2	**5.01**	5.91	**7.41**	8.91
23.4	**5.16**	6.09	**7.64**	9.18
23.5	**5.24**	6.19	**7.76**	9.32
23.6	**5.33**	6.28	**7.88**	9.47
23.8	**5.50**	6.48	**8.13**	9.78
24.0	**5.68**	6.70	**8.40**	10.10
24.2	**5.88**	6.93	**8.69**	10.45
24.4	**6.09**	7.18	**9.00**	10.82
24.5	**6.20**	7.31	**9.17**	11.02
24.6	**6.31**	7.45	**9.33**	11.22
24.8	**6.55**	7.73	**9.69**	11.66
25.0	**6.82**	8.04	**10.08**	12.12
25.2	**7.10**	8.38	**10.50**	12.63
25.4	**7.41**	8.74	**10.96**	13.18
25.5	**7.57**	8.93	**11.20**	13.47
25.6	**7.75**	9.14	**11.46**	13.78
25.8	**8.11**	9.57	**12.00**	14.43
26.0	**8.52**	10.05	**12.60**	15.15
26.2	**8.97**	10.58	**13.27**	15.95
26.4	**9.47**	11.17	**14.00**	16.84
26.5	**9.74**	11.49	**14.40**	17.32
26.6	**10.02**	11.82	**14.83**	17.83
26.8	**10.65**	12.56	**15.75**	18.94
27.0	**11.36**	13.40	**16.80**	20.20
27.2	**12.17**	14.36	**18.00**	21.65
27.4	**13.11**	15.46	**19.39**	23.31
27.5	**13.63**	16.08	**20.16**	24.24
27.6	**14.20**	16.75	**21.00**	25.26
27.8	**15.49**	18.27	**22.91**	27.55
28.0	**17.04**	20.10	**25.20**	30.31
28.2	**18.93**	22.34	**28.00**	33.67
28.4	**21.30**	25.13	**31.51**	37.88
28.5	**22.72**	26.80	**33.61**	40.41
28.6	**24.34**	28.72	**36.01**	43.29
28.8	**28.40**	33.50	**42.01**	50.51
29.0	**34.08**	40.20	**50.41**	60.61

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Method:TO-15 (Sp)-AECOM (SMUD 59th alphanumeric)

CAS Number	Compound	Rpt. Limit(ppbv)
630-20-6	1,1,1,2-Tetrachloroethane	2.0
71-55-6	1,1,1-Trichloroethane	0.5
79-34-5	1,1,2,2-Tetrachloroethane	0.5
79-00-5	1,1,2-Trichloroethane	0.5
75-34-3	1,1-Dichloroethane	0.5
75-35-4	1,1-Dichloroethene	0.5
75-37-6	1,1-Difluoroethane	2.0
96-18-4	1,2,3-Trichloropropane	2.0
120-82-1	1,2,4-Trichlorobenzene	2.0
95-63-6	1,2,4-Trimethylbenzene	0.5
96-12-8	1,2-Dibromo-3-chloropropane	2.0
106-93-4	1,2-Dibromoethane (EDB)	0.5
95-50-1	1,2-Dichlorobenzene	0.5
107-06-2	1,2-Dichloroethane	0.5
78-87-5	1,2-Dichloropropane	0.5
108-67-8	1,3,5-Trimethylbenzene	0.5
106-99-0	1,3-Butadiene	0.5
541-73-1	1,3-Dichlorobenzene	0.5
106-46-7	1,4-Dichlorobenzene	0.5
123-91-1	1,4-Dioxane	2.0
540-84-1	2,2,4-Trimethylpentane	0.5
78-93-3	2-Butanone (Methyl Ethyl Ketone)	2.0
591-78-6	2-Hexanone	2.0
67-63-0	2-Propanol	2.0
107-05-1	3-Chloropropene	2.0
622-96-8	4-Ethyltoluene	0.5
108-10-1	4-Methyl-2-pentanone	0.5
67-64-1	Acetone	5.0
107-02-8	Acrolein	2.0
107-13-1	Acrylonitrile	2.0
100-44-7	alpha-Chlorotoluene	0.5
71-43-2	Benzene	0.5

75-27-4	Bromodichloromethane	0.5
	Method:TO-15 (Sp)-AECOM (SMUD 59th alphanumeric)	

CAS Number	Compound	Rpt. Limit(ppbv)
75-25-2	Bromoform	0.5
74-83-9	Bromomethane	5.0
75-15-0	Carbon Disulfide	2.0
56-23-5	Carbon Tetrachloride	0.5
108-90-7	Chlorobenzene	0.5
75-00-3	Chloroethane	2.0
67-66-3	Chloroform	0.5
74-87-3	Chloromethane	5.0
156-59-2	cis-1,2-Dichloroethene	0.5
10061-01-5	cis-1,3-Dichloropropene	0.5
98-82-8	Cumene	0.5
110-82-7	Cyclohexane	0.5
124-48-1	Dibromochloromethane	0.5
74-95-3	Dibromomethane	2.0
64-17-5	Ethanol	5.0
141-78-6	Ethyl Acetate	2.0
100-41-4	Ethyl Benzene	0.5
637-92-3	Ethyl-tert-butyl ether	2.0
75-69-4	Freon 11	0.5
76-13-1	Freon 113	0.5
76-14-2	Freon 114	0.5
75-71-8	Freon 12	0.5
811-97-2	Freon 134a	2.0
142-82-5	Heptane	0.5
87-68-3	Hexachlorobutadiene	2.0
67-72-1	Hexachloroethane	2.0
110-54-3	Hexane	0.5
74-88-4	Iodomethane	5.0
108-20-3	Isopropyl ether	2.0
108-38-3	m,p-Xylene	0.5
1634-04-4	Methyl tert-butyl ether	2.0
75-09-2	Methylene Chloride	5.0
91-20-3	Naphthalene	1.0
95-47-6	o-Xylene	0.5
103-65-1	Propylbenzene	0.5

115-07-1	Propylene	2.0
100-42-5	Styrene	0.5
994-05-8	tert-Amyl methyl ether	2.0
75-65-0	tert-Butyl alcohol	2.0
127-18-4	Tetrachloroethene	0.5
109-99-9	Tetrahydrofuran	0.5
108-88-3	Toluene	0.5
9999-9999-038	TPH ref. to Gasoline (MW=100)	50.0
156-60-5	trans-1,2-Dichloroethene	0.5
10061-02-6	trans-1,3-Dichloropropene	0.5
79-01-6	Trichloroethene	0.5
108-05-4	Vinyl Acetate	2.0
593-60-2	Vinyl Bromide	2.0
75-01-4	Vinyl Chloride	0.5

	Surrogate	Method Limits
17060-07-0	1,2-Dichloroethane-d4	70-130
460-00-4	4-Bromofluorobenzene	70-130
2037-26-5	Toluene-d8	70-130

Eurofins Air Toxics Workorder # 2108676B	Data Review Checklist			Release Date: 10/22/19
	Form F1.27	Revision #17	Revision Date: 10/22/19	Page 1 of 2

S1	S2	S3	S4	D	Section 1 – Spec Out			
					Initials/Instrument/Date	S1: MSD3 LD 9/9/21	S2:	S3:	S4:
✓				■	Project Identification (PID), Project Requirements Table (PRT), Daily QC and ICAL met Criteria			
✓				■	Lumen QC and ICAL evaluation (ref. SOP/Method) report initialed and in folder			
NA				■	Manual Integrations included and approved			
✓				✓	Chain of Custody verified for special comments/notes and analyses requested (add comments below)			
✓				■	Non-standard Target sublist verified (MDL, LOD, RL, control limits, etc.)			
✓				■	Verified standard expiration dates			

Profile, analyses, reporting, special notes and unusual circumstances: ~~8Ti QC-#~~ LD 9/9/21 out: LB-OSC Toutical, LLS.

A1	A2	A3	A4	D	Section 2 – Sample Analysis				
					Initials/Date	A1: DF 9/9/21	A2:	A3:	A4:
✓				✓	IS/Surr Recoveries, Dilution Factors, Load Volumes, leg(s) of instrument, Initial/Final Pressures, Canister #s Verified and dilution ranges are met per SOP (ex. Over-ranged/overdiluted)				
^				NA	a) Tedlar Bag IDs verified against COC b) Tedlar Bag ID confirmed with loading sequence/leg(s) of instrument				
^				NA	Manual Integrations/Bag or Can Dilution Forms/Re-pressurization Forms/Bag-Can Transfer Forms present (circle all that apply)				
✓				■	12/24 Hr clock time & Hold Time met for all samples				
^				NA	Re-analysis of sample(s) has been evaluated for comparability and/or sample(s) has/have been checked for trends (Inf/Eff), field dups/trip blanks, samples following bad loads on auto samplers have been verified (system blks, confirmation runs)				
✓				✓	All runs have been evaluated for potential carry-over (TPHg/non-Target/over-range compounds/ etc.)				

Analytical and special notes: AL 02A F1114

D1	D2	D3	D4	T	3T	Section 3 – Target Data Reduction	Technical Review Needed? Circle one: Yes/(No)		T:	
						Initials/Instrument/Date	D1: MSD-3 MB 9/14/21	D2:	D3:	D4:
NA					■	CAR # (if applicable)				
↓					■	Spectra Verified (documentation of spectral defense included if applicable)				
✓					■	TICs resemble reference spectra/ TICs between sample dups. are consistent (if applicable)				
✓						Lab Narrative is correct				
✓					■	TPH/NMOC calculations complete and included in folder				

Special notes:

A	3T	Section 4- Atlas Data Entry	Lumen verified and included in folder	Circle one: (Yes)/No
		Initials/Date: MB 9/15/21	3rd Tier: (needed only for DOD or per client request)	
NA		Sample Discrepancy Report (SDR) complete and approved (if applicable)		
✓		Manually entered results are checked		
✓		At least one result per sample is verified against Target quant sheets		
✓		Appropriate data qualifier flags are applied		
✓		Final Invoice is correct/ Final PDF report, COC and EDD reviewed and correct		

Special Notes:

Note (1) *Please check all the appropriate boxes. Indicate "NA" for any statement that doesn't apply*
Note (2) 3rd *Tier Report Reviewer and Write Up Reviewer must be separate individuals for DoD & Client Specific Projects*

Workorder # :				Reason for Reissue:
W	T	3T	Q	
				Reissue Request form Present
				Client or QA or Lab contact present with reason for reissue
				Review all affected data
				Report header has correct R1, R2 etc
				The Lab Narrative clearly explains the reissue (Date, Reason and whether client requested)
				Date for Reissue in Report Header matches date in Lab Narrative
				Check Project Profile for correct reporting instructions (multiple clients, # hardcopies, etc)
				Corrective Action issued - #
				The reissued workorder has been approved by QA Manager or a Technical Director
Additional Comments:				

Write Up (Initials/Date)	Tech Review (Initials/Date)	*3rd Tier Review * 3rd Tier Report Review is for DoD & Client Specific projects only (Initials/Date)	QA Review (Initials/Date)

Workorder # :				Reason for Reissue:
W	T	3T	Q	
				Reissue Request form Present
				Client or QA or Lab contact present with reason for reissue
				Review all affected data
				Report header has correct R1, R2 etc
				The Lab Narrative clearly explains the reissue (Date, Reason and whether client requested)
				Date for Reissue in Report Header matches date in Lab Narrative
				Check Project Profile for correct reporting instructions (multiple clients, # hardcopies, etc)
				Corrective Action issued - #
				The reissued workorder has been approved by QA Manager or a Technical Director
Additional Comments:				

Write Up (Initials/Date)	Tech Review (Initials/Date)	*3rd Tier Review * 3rd Tier Report Review is for DoD & Client Specific projects only (Initials/Date)	QA Review (Initials/Date)

Note (1) *Please check all the appropriate boxes. Indicate "NA" for any statement that doesn't apply*
Note (2) 3rd Tier Report Reviewer and Write Up Reviewer must be separate individuals for DoD & Client Specific Projects

Not Applicable

Beacon Environmental
2203A Commerce Road, Suite 1
Forest Hill, MD 21050 USA
1.410.838.8780

CERTIFICATE OF ANALYSIS

Beacon Proposal No.: 210625R02

Laboratory Work Order: 0005847

Project Description:
SMUD 59th Street Corporation Yard
Sacramento, CA

Client PO No.: 60632793.6

Prepared for:
Robert Kohlhardt
AECOM
2020 L Street, Suite 300
Sacramento, CA 95811

Ryan W. Schneider
Senior Project Manager

July 29, 2021

All data meet requirements as specified in the Beacon Environmental Quality Assurance Project Plan and the results relate only to the samples reported. The work performed was in accordance with ISO/IEC 17025:2017. This report shall not be reproduced, except in full, without written approval of the laboratory. Release of the data contained in this data package has been authorized by the Laboratory Director or his signee, as verified by the following signatures:

Steven C. Thornley
Laboratory Director

Peter B. Kelly
Interim Quality Manager

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BEACON ENVIRONMENTAL

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CERTIFICATE OF ANALYSIS

AECOM	**Site Name:** SMUD 59th Street Corporation Yard	**Beacon Proposal:** 210625R02
2020 L Street, Suite 300	**Site Location:** Sacramento, CA	**Lab Work Order:** 0005847
Sacramento, CA 95811	**Project Manager:** Robert Kohlhardt	**Reported:** 07/29/2021

Sample Summary

Lab Sample ID	Client Sample ID	Received	Analysis	Matrix
0005847-01	TB-01	07/19/2021	TO-17 (Passive)	Air
Sampler Type:	Beacon Passive Sampler			
0005847-02	F-SEW-01P	07/19/2021	TO-17 (Passive)	Sewer Gas
Sampler Type:	Beacon Passive Sampler			
0005847-03	H-SEW-01P	07/19/2021	TO-17 (Passive)	Sewer Gas
Sampler Type:	Beacon Passive Sampler			
0005847-04	H-SEW-02P	07/19/2021	TO-17 (Passive)	Sewer Gas
Sampler Type:	Beacon Passive Sampler			
0005847-05	J-SEW-01P	07/19/2021	TO-17 (Passive)	Sewer Gas
Sampler Type:	Beacon Passive Sampler			
0005847-06	H-SEW-03P	07/19/2021	TO-17 (Passive)	Sewer Gas
Sampler Type:	Beacon Passive Sampler			

Project Completeness

Samples Received: 6
Samples Analyzed: 6

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AECOM	**Site Name:** SMUD 59th Street Corporation Yard	**Beacon Proposal:** 210625R02
2020 L Street, Suite 300	**Site Location:** Sacramento, CA	**Lab Work Order:** 0005847
Sacramento, CA 95811	**Project Manager:** Robert Kohlhardt	**Reported:** 07/29/2021

Case Narrative

Beacon Environmental provided thermally conditioned Beacon Samplers for sampling, with analyses following U.S. EPA Method TO-17, with analytical results reported in µg/m3. Beacon calculated concentration results using the exposure period, target analyte mass, and the following procedures detailed in ISO 16017-2, *Indoor, ambient and workplace air-Sampling and analysis of volatile organic compounds by sorbent tube/thermal desorption/capillary gas chromatography-Part 2: Diffusive sampling.*

Beacon reports results and reporting limits to three significant digits.

Reporting Limits (RLs) for EPA Method TO-17

The RLs represent a baseline above which results meet laboratory-determined limits of precision and accuracy. Beacon performed dilution analysis when results exceeded the upper calibration limit, bringing all reported results within the calibration range. The project method quantitation limit (MQL) is the limit of detection (LOD) as noted in the data tables.

Calibration Verification

All continuing calibration verification (CCV) values are within ±30% of the true values as defined by the initial calibration and met the requirements specified in BEACON's Quality Manual.

Internal Standards and Surrogates

Internal standards and surrogates are spiked on all blanks (ICB, BLK), field samples and laboratory control samples (ICV/CALV, BS, ICV and CCV). Acceptance criteria for internal standards are 60 to 140 percent and surrogate recoveries are 70 to 130 percent; all internal standards and surrogates are within the acceptance criteria unless noted in the **Case Narrative**.

Blank Contamination

No targeted compounds above the limit of detection (LOD) for each compound were observed in the Laboratory Method Blanks.

Laboratory Control Samples

Acceptance criteria for surrogate and analytes recoveries are 70 to 130 percent; all recoveries are within the acceptance criteria unless noted in the **Case Narrative** section.

Discussion

Samples were received in proper condition and laboratory control parameters were met unless otherwise noted below. The work performed was in accordance with ISO/IEC 17025:2017.

End of Case Narrative

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AECOM	**Site Name:** SMUD 59th Street Corporation Yard	**Beacon Proposal:** 210625R02
2020 L Street, Suite 300	**Site Location:** Sacramento, CA	**Lab Work Order:** 0005847
Sacramento, CA 95811	**Project Manager:** Robert Kohlhardt	**Reported:** 07/29/2021

Analytical Results

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AECOM	**Site Name:** SMUD 59th Street Corporation Yard	**Beacon Proposal:** 210625R02
2020 L Street, Suite 300	**Site Location:** Sacramento, CA	**Lab Work Order:** 0005847
Sacramento, CA 95811	**Project Manager:** Robert Kohlhardt	**Reported:** 07/29/2021

Summary of Compound Detections- Concentration

Lab Sample ID: 0005847-02 — **F-SEW-01P** — Sewer Gas — Method: TO-17 (Passive)

Analyte	CAS#	Result (µg/m³)	Q	RT	LOQ (µg/m³)	LOD (µg/m³)	File ID
Benzene	71-43-2	**5.06**		4.784	4.61	1.84	A21072006.D

Lab Sample ID: 0005847-03 — **H-SEW-01P** — Sewer Gas — Method: TO-17 (Passive)

Analyte	CAS#	Result (µg/m³)	Q	RT	LOQ (µg/m³)	LOD (µg/m³)	File ID
Benzene	71-43-2	**2.02**	J	4.777	4.65	1.86	A21072007.D
Tetrachloroethene	127-18-4	**1.28**	J	8.198	2.40	1.20	A21072007.D
p & m-Xylene	179601-23-1	**1.16**	J	9.173	2.80	1.12	A21072007.D
1,3,5-Trimethylbenzene	108-67-8	**2.46**	J	10.163	2.97	1.19	A21072007.D
1,2,4-Trimethylbenzene	95-63-6	**3.62**		10.414	2.97	1.19	A21072007.D

Lab Sample ID: 0005847-04 — **H-SEW-02P** — Sewer Gas — Method: TO-17 (Passive)

Analyte	CAS#	Result (µg/m³)	Q	RT	LOQ (µg/m³)	LOD (µg/m³)	File ID
Benzene	71-43-2	**2.57**	J	4.780	4.65	1.86	A21072008.D
Toluene	108-88-3	**3.06**	J	7.710	6.16	2.46	A21072008.D
Tetrachloroethene	127-18-4	**1.74**	J	8.195	2.40	1.20	A21072008.D
p & m-Xylene	179601-23-1	**1.67**	J	9.173	2.80	1.12	A21072008.D
o-Xylene	95-47-6	**1.32**	J	9.465	2.80	1.12	A21072008.D
1,3,5-Trimethylbenzene	108-67-8	**3.10**		10.163	2.97	1.19	A21072008.D
1,2,4-Trimethylbenzene	95-63-6	**4.72**		10.414	2.97	1.19	A21072008.D

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AECOM	**Site Name:** SMUD 59th Street Corporation Yard	**Beacon Proposal:** 210625R02
2020 L Street, Suite 300	**Site Location:** Sacramento, CA	**Lab Work Order:** 0005847
Sacramento, CA 95811	**Project Manager:** Robert Kohlhardt	**Reported:** 07/29/2021

Summary of Compound Detections- Concentration

Lab Sample ID: 0005847-05 — **J-SEW-01P** — Sewer Gas — Method: TO-17 (Passive)

Analyte	CAS#	Result (µg/m³)	Q	RT	LOQ (µg/m³)	LOD (µg/m³)	File ID
Chloroform	67-66-3	**9.81**		4.067	2.80	1.40	A21072009.D
Benzene	71-43-2	**3.32**	J	4.780	4.63	1.85	A21072009.D

Lab Sample ID: 0005847-06 — **H-SEW-03P** — Sewer Gas — Method: TO-17 (Passive)

Analyte	CAS#	Result (µg/m³)	Q	RT	LOQ (µg/m³)	LOD (µg/m³)	File ID
Chloroform	67-66-3	**1.54**	J	4.067	2.81	1.41	A21072010.D
Benzene	71-43-2	**2.22**	J	4.777	4.65	1.86	A21072010.D
Toluene	108-88-3	**21.1**		7.710	6.16	2.46	A21072010.D
Ethylbenzene	100-41-4	**1.41**	J	9.070	2.90	1.16	A21072010.D
p & m-Xylene	179601-23-1	**5.75**		9.173	2.80	1.12	A21072010.D
o-Xylene	95-47-6	**4.91**		9.462	2.80	1.12	A21072010.D
1,2,4-Trimethylbenzene	95-63-6	**1.22**	J	10.414	2.97	1.19	A21072010.D

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AECOM	**Site Name:** SMUD 59th Street Corporation Yard	**Beacon Proposal:** 210625R02
2020 L Street, Suite 300	**Site Location:** Sacramento, CA	**Lab Work Order:** 0005847
Sacramento, CA 95811	**Project Manager:** Robert Kohlhardt	**Reported:** 07/29/2021

Data Summary Table- Concentration

Compound	Frequency	LOD (µg/m³)	Max Value (µg/m³)
Chloroform	2	1.40	9.81
Benzene	5	1.84	5.06
Toluene	2	2.46	21.1
Tetrachloroethene	2	1.20	1.74
Ethylbenzene	1	1.16	1.41
p & m-Xylene	3	1.12	5.75
o-Xylene	2	1.12	4.91
1,3,5-Trimethylbenzene	2	1.19	3.10
1,2,4-Trimethylbenzene	3	1.19	4.72

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2020 L Street, Suite 300	**Site Location:** Sacramento, CA	**Lab Work Order:** 0005847
Sacramento, CA 95811	**Project Manager:** Robert Kohlhardt	**Reported:** 07/29/2021

Detailed Analytical Results

BEACON ENVIRONMENTAL

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CERTIFICATE OF ANALYSIS

AECOM	**Site Name:** SMUD 59th Street Corporation Yard	**Beacon Proposal:** 210625R02
2020 L Street, Suite 300	**Site Location:** Sacramento, CA	**Lab Work Order:** 0005847
Sacramento, CA 95811	**Project Manager:** Robert Kohlhardt	**Reported:** 07/29/2021

Lab Sample ID: 0005847-01

TB-01

Air

Method: TO-17 (Passive)

Analyte	CAS#	Result (µg/m³)	Q	LOD (µg/m³)	LOQ (µg/m³)	Analyzed	File ID
Vinyl Chloride	75-01-4	<0.603		0.603	1.21	07/20/2021 09:38	A21072005.D
1,1-Dichloroethene	75-35-4	<1.48		1.48	2.96	07/20/2021 09:38	A21072005.D
1,1,2-Trichlorotrifluoroethane (Fr.113)	76-13-1	<0.549		0.549	1.10	07/20/2021 09:38	A21072005.D
trans-1,2-Dichloroethene	156-60-5	<1.11		1.11	2.22	07/20/2021 09:38	A21072005.D
Methyl-t-butyl ether	1634-04-4	<1.95		1.95	4.88	07/20/2021 09:38	A21072005.D
1,1-Dichloroethane	75-34-3	<0.574		0.574	1.15	07/20/2021 09:38	A21072005.D
cis-1,2-Dichloroethene	156-59-2	<0.921		0.921	1.84	07/20/2021 09:38	A21072005.D
Chloroform	67-66-3	<1.39		1.39	2.79	07/20/2021 09:38	A21072005.D
1,2-Dichloroethane	107-06-2	<0.872		0.872	1.74	07/20/2021 09:38	A21072005.D
1,1,1-Trichloroethane	71-55-6	<0.465		0.465	0.930	07/20/2021 09:38	A21072005.D
Carbon Tetrachloride	56-23-5	<1.14		1.14	2.27	07/20/2021 09:38	A21072005.D
Benzene	71-43-2	<1.84		1.84	4.61	07/20/2021 09:38	A21072005.D
Trichloroethene	79-01-6	<1.48		1.48	2.96	07/20/2021 09:38	A21072005.D
1,4-Dioxane	123-91-1	<1.19		1.19	2.38	07/20/2021 09:38	A21072005.D
1,1,2-Trichloroethane	79-00-5	<1.48		1.48	2.96	07/20/2021 09:38	A21072005.D
Toluene	108-88-3	<2.44		2.44	6.10	07/20/2021 09:38	A21072005.D
1,2-Dibromoethane (EDB)	106-93-4	<1.25		1.25	2.50	07/20/2021 09:38	A21072005.D
Tetrachloroethene	127-18-4	<1.19		1.19	2.38	07/20/2021 09:38	A21072005.D
1,1,1,2-Tetrachloroethane	630-20-6	<1.19		1.19	2.38	07/20/2021 09:38	A21072005.D
Chlorobenzene	108-90-7	<0.574		0.574	1.15	07/20/2021 09:38	A21072005.D
Ethylbenzene	100-41-4	<1.15		1.15	2.87	07/20/2021 09:38	A21072005.D
p & m-Xylene	179601-23-1	<1.11		1.11	2.77	07/20/2021 09:38	A21072005.D
1,1,2,2-Tetrachloroethane	79-34-5	<1.19		1.19	2.38	07/20/2021 09:38	A21072005.D
o-Xylene	95-47-6	<1.11		1.11	2.77	07/20/2021 09:38	A21072005.D
1,2,3-Trichloropropane	96-18-4	<0.651		0.651	1.30	07/20/2021 09:38	A21072005.D
Isopropylbenzene	98-82-8	<1.18		1.18	2.94	07/20/2021 09:38	A21072005.D
1,3,5-Trimethylbenzene	108-67-8	<1.18		1.18	2.94	07/20/2021 09:38	A21072005.D
1,2,4-Trimethylbenzene	95-63-6	<1.18		1.18	2.94	07/20/2021 09:38	A21072005.D
1,3-Dichlorobenzene	541-73-1	<0.651		0.651	1.30	07/20/2021 09:38	A21072005.D
1,4-Dichlorobenzene	106-46-7	<0.651		0.651	1.30	07/20/2021 09:38	A21072005.D
1,2-Dichlorobenzene	95-50-1	<0.651		0.651	1.30	07/20/2021 09:38	A21072005.D
1,2,4-Trichlorobenzene	120-82-1	<1.25		1.25	2.50	07/20/2021 09:38	A21072005.D
Naphthalene	91-20-3	<0.610		0.610	1.22	07/20/2021 09:38	A21072005.D
1,2,3-Trichlorobenzene	87-61-6	<1.25		1.25	2.50	07/20/2021 09:38	A21072005.D
2-Methylnaphthalene	91-57-6	<0.642		0.642	1.28	07/20/2021 09:38	A21072005.D

Analyte	*CAS#*	*% Recovery*	*Recovery Limits*	*Q*	*Analyzed*	*File ID*
Surrogate: 1,2-DCA-d4	17060-07-0	*95.7%*	*70-130*		*07/20/2021 09:38*	*A21072005.D*
Surrogate: Toluene-d8	2037-26-5	*92.1%*	*70-130*		*07/20/2021 09:38*	*A21072005.D*
Surrogate: Bromofluorobenzene	460-00-4	*98.8%*	*70-130*		*07/20/2021 09:38*	*A21072005.D*

BEACON ENVIRONMENTAL

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CERTIFICATE OF ANALYSIS

AECOM	**Site Name:** SMUD 59th Street Corporation Yard	**Beacon Proposal:** 210625R02
2020 L Street, Suite 300	**Site Location:** Sacramento, CA	**Lab Work Order:** 0005847
Sacramento, CA 95811	**Project Manager:** Robert Kohlhardt	**Reported:** 07/29/2021

Lab Sample ID: 0005847-02

F-SEW-01P

Sewer Gas

Method: TO-17 (Passive)

Analyte	CAS#	Result (µg/m³)	Q	LOD (µg/m³)	LOQ (µg/m³)	Analyzed	File ID
Vinyl Chloride	75-01-4	<0.603		0.603	1.21	07/20/2021 10:07	A21072006.D
1,1-Dichloroethene	75-35-4	<1.48		1.48	2.96	07/20/2021 10:07	A21072006.D
1,1,2-Trichlorotrifluoroethane (Fr.113)	76-13-1	<0.549		0.549	1.10	07/20/2021 10:07	A21072006.D
trans-1,2-Dichloroethene	156-60-5	<1.11		1.11	2.22	07/20/2021 10:07	A21072006.D
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1,1-Dichloroethane	75-34-3	<0.574		0.574	1.15	07/20/2021 10:07	A21072006.D
cis-1,2-Dichloroethene	156-59-2	<0.921		0.921	1.84	07/20/2021 10:07	A21072006.D
Chloroform	67-66-3	<1.39		1.39	2.79	07/20/2021 10:07	A21072006.D
1,2-Dichloroethane	107-06-2	<0.872		0.872	1.74	07/20/2021 10:07	A21072006.D
1,1,1-Trichloroethane	71-55-6	<0.465		0.465	0.930	07/20/2021 10:07	A21072006.D
Carbon Tetrachloride	56-23-5	<1.14		1.14	2.27	07/20/2021 10:07	A21072006.D
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Trichloroethene	79-01-6	<1.48		1.48	2.96	07/20/2021 10:07	A21072006.D
1,4-Dioxane	123-91-1	<1.19		1.19	2.38	07/20/2021 10:07	A21072006.D
1,1,2-Trichloroethane	79-00-5	<1.48		1.48	2.96	07/20/2021 10:07	A21072006.D
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Tetrachloroethene	127-18-4	<1.19		1.19	2.38	07/20/2021 10:07	A21072006.D
1,1,1,2-Tetrachloroethane	630-20-6	<1.19		1.19	2.38	07/20/2021 10:07	A21072006.D
Chlorobenzene	108-90-7	<0.574		0.574	1.15	07/20/2021 10:07	A21072006.D
Ethylbenzene	100-41-4	<1.15		1.15	2.87	07/20/2021 10:07	A21072006.D
p & m-Xylene	179601-23-1	<1.11		1.11	2.77	07/20/2021 10:07	A21072006.D
1,1,2,2-Tetrachloroethane	79-34-5	<1.19		1.19	2.38	07/20/2021 10:07	A21072006.D
o-Xylene	95-47-6	<1.11		1.11	2.77	07/20/2021 10:07	A21072006.D
1,2,3-Trichloropropane	96-18-4	<0.651		0.651	1.30	07/20/2021 10:07	A21072006.D
Isopropylbenzene	98-82-8	<1.18		1.18	2.94	07/20/2021 10:07	A21072006.D
1,3,5-Trimethylbenzene	108-67-8	<1.18		1.18	2.94	07/20/2021 10:07	A21072006.D
1,2,4-Trimethylbenzene	95-63-6	<1.18		1.18	2.94	07/20/2021 10:07	A21072006.D
1,3-Dichlorobenzene	541-73-1	<0.651		0.651	1.30	07/20/2021 10:07	A21072006.D
1,4-Dichlorobenzene	106-46-7	<0.651		0.651	1.30	07/20/2021 10:07	A21072006.D
1,2-Dichlorobenzene	95-50-1	<0.651		0.651	1.30	07/20/2021 10:07	A21072006.D
1,2,4-Trichlorobenzene	120-82-1	<1.25		1.25	2.50	07/20/2021 10:07	A21072006.D
Naphthalene	91-20-3	<0.610		0.610	1.22	07/20/2021 10:07	A21072006.D
1,2,3-Trichlorobenzene	87-61-6	<1.25		1.25	2.50	07/20/2021 10:07	A21072006.D
2-Methylnaphthalene	91-57-6	<0.642		0.642	1.28	07/20/2021 10:07	A21072006.D

Analyte	*CAS#*	*% Recovery*	*Recovery Limits*	*Q*	*Analyzed*	*File ID*
Surrogate: 1,2-DCA-d4	17060-07-0	*89.4%*	*70-130*		*07/20/2021 10:07*	*A21072006.D*
Surrogate: Toluene-d8	2037-26-5	*89.4%*	*70-130*		*07/20/2021 10:07*	*A21072006.D*
Surrogate: Bromofluorobenzene	460-00-4	*100%*	*70-130*		*07/20/2021 10:07*	*A21072006.D*

BEACON ENVIRONMENTAL

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CERTIFICATE OF ANALYSIS

AECOM	**Site Name:** SMUD 59th Street Corporation Yard	**Beacon Proposal:** 210625R02
2020 L Street, Suite 300	**Site Location:** Sacramento, CA	**Lab Work Order:** 0005847
Sacramento, CA 95811	**Project Manager:** Robert Kohlhardt	**Reported:** 07/29/2021

Lab Sample ID: 0005847-03

H-SEW-01P

Sewer Gas

Method: TO-17 (Passive)

Analyte	CAS#	Result (µg/m³)	Q	LOD (µg/m³)	LOQ (µg/m³)	Analyzed	File ID
Vinyl Chloride	75-01-4	<0.608		0.608	1.22	07/20/2021 10:36	A21072007.D
1,1-Dichloroethene	75-35-4	<1.49		1.49	2.99	07/20/2021 10:36	A21072007.D
1,1,2-Trichlorotrifluoroethane (Fr.113)	76-13-1	<0.554		0.554	1.11	07/20/2021 10:36	A21072007.D
trans-1,2-Dichloroethene	156-60-5	<1.12		1.12	2.24	07/20/2021 10:36	A21072007.D
Methyl-t-butyl ether	1634-04-4	<1.97		1.97	4.93	07/20/2021 10:36	A21072007.D
1,1-Dichloroethane	75-34-3	<0.580		0.580	1.16	07/20/2021 10:36	A21072007.D
cis-1,2-Dichloroethene	156-59-2	<0.930		0.930	1.86	07/20/2021 10:36	A21072007.D
Chloroform	67-66-3	<1.41		1.41	2.82	07/20/2021 10:36	A21072007.D
1,2-Dichloroethane	107-06-2	<0.880		0.880	1.76	07/20/2021 10:36	A21072007.D
1,1,1-Trichloroethane	71-55-6	<0.469		0.469	0.938	07/20/2021 10:36	A21072007.D
Carbon Tetrachloride	56-23-5	<1.15		1.15	2.29	07/20/2021 10:36	A21072007.D
Benzene	71-43-2	**2.02**	J	1.86	4.65	07/20/2021 10:36	A21072007.D
Trichloroethene	79-01-6	<1.49		1.49	2.99	07/20/2021 10:36	A21072007.D
1,4-Dioxane	123-91-1	<1.20		1.20	2.40	07/20/2021 10:36	A21072007.D
1,1,2-Trichloroethane	79-00-5	<1.49		1.49	2.99	07/20/2021 10:36	A21072007.D
Toluene	108-88-3	<2.46		2.46	6.16	07/20/2021 10:36	A21072007.D
1,2-Dibromoethane (EDB)	106-93-4	<1.26		1.26	2.53	07/20/2021 10:36	A21072007.D
Tetrachloroethene	127-18-4	**1.28**	J	1.20	2.40	07/20/2021 10:36	A21072007.D
1,1,1,2-Tetrachloroethane	630-20-6	<1.20		1.20	2.40	07/20/2021 10:36	A21072007.D
Chlorobenzene	108-90-7	<0.580		0.580	1.16	07/20/2021 10:36	A21072007.D
Ethylbenzene	100-41-4	<1.16		1.16	2.90	07/20/2021 10:36	A21072007.D
p & m-Xylene	179601-23-1	**1.16**	J	1.12	2.80	07/20/2021 10:36	A21072007.D
1,1,2,2-Tetrachloroethane	79-34-5	<1.20		1.20	2.40	07/20/2021 10:36	A21072007.D
o-Xylene	95-47-6	<1.12		1.12	2.80	07/20/2021 10:36	A21072007.D
1,2,3-Trichloropropane	96-18-4	<0.657		0.657	1.31	07/20/2021 10:36	A21072007.D
Isopropylbenzene	98-82-8	<1.19		1.19	2.97	07/20/2021 10:36	A21072007.D
1,3,5-Trimethylbenzene	108-67-8	**2.46**	J	1.19	2.97	07/20/2021 10:36	A21072007.D
1,2,4-Trimethylbenzene	95-63-6	**3.62**		1.19	2.97	07/20/2021 10:36	A21072007.D
1,3-Dichlorobenzene	541-73-1	<0.657		0.657	1.31	07/20/2021 10:36	A21072007.D
1,4-Dichlorobenzene	106-46-7	<0.657		0.657	1.31	07/20/2021 10:36	A21072007.D
1,2-Dichlorobenzene	95-50-1	<0.657		0.657	1.31	07/20/2021 10:36	A21072007.D
1,2,4-Trichlorobenzene	120-82-1	<1.26		1.26	2.53	07/20/2021 10:36	A21072007.D
Naphthalene	91-20-3	<0.616		0.616	1.23	07/20/2021 10:36	A21072007.D
1,2,3-Trichlorobenzene	87-61-6	<1.26		1.26	2.53	07/20/2021 10:36	A21072007.D
2-Methylnaphthalene	91-57-6	<0.648		0.648	1.30	07/20/2021 10:36	A21072007.D

Analyte	*CAS#*	*% Recovery*	*Recovery Limits*	*Q*	*Analyzed*	*File ID*
Surrogate: 1,2-DCA-d4	17060-07-0	*95.6%*	*70-130*		*07/20/2021 10:36*	*A21072007.D*
Surrogate: Toluene-d8	2037-26-5	*92.1%*	*70-130*		*07/20/2021 10:36*	*A21072007.D*
Surrogate: Bromofluorobenzene	460-00-4	*97.7%*	*70-130*		*07/20/2021 10:36*	*A21072007.D*

BEACON ENVIRONMENTAL

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CERTIFICATE OF ANALYSIS

AECOM	**Site Name:** SMUD 59th Street Corporation Yard	**Beacon Proposal:** 210625R02
2020 L Street, Suite 300	**Site Location:** Sacramento, CA	**Lab Work Order:** 0005847
Sacramento, CA 95811	**Project Manager:** Robert Kohlhardt	**Reported:** 07/29/2021

Lab Sample ID: 0005847-04

H-SEW-02P

Sewer Gas

Method: TO-17 (Passive)

Analyte	CAS#	Result (µg/m³)	Q	LOD (µg/m³)	LOQ (µg/m³)	Analyzed	File ID
Vinyl Chloride	75-01-4	<0.608		0.608	1.22	07/20/2021 11:05	A21072008.D
1,1-Dichloroethene	75-35-4	<1.49		1.49	2.99	07/20/2021 11:05	A21072008.D
1,1,2-Trichlorotrifluoroethane (Fr.113)	76-13-1	<0.554		0.554	1.11	07/20/2021 11:05	A21072008.D
trans-1,2-Dichloroethene	156-60-5	<1.12		1.12	2.24	07/20/2021 11:05	A21072008.D
Methyl-t-butyl ether	1634-04-4	<1.97		1.97	4.93	07/20/2021 11:05	A21072008.D
1,1-Dichloroethane	75-34-3	<0.580		0.580	1.16	07/20/2021 11:05	A21072008.D
cis-1,2-Dichloroethene	156-59-2	<0.930		0.930	1.86	07/20/2021 11:05	A21072008.D
Chloroform	67-66-3	<1.41		1.41	2.82	07/20/2021 11:05	A21072008.D
1,2-Dichloroethane	107-06-2	<0.880		0.880	1.76	07/20/2021 11:05	A21072008.D
1,1,1-Trichloroethane	71-55-6	<0.469		0.469	0.938	07/20/2021 11:05	A21072008.D
Carbon Tetrachloride	56-23-5	<1.15		1.15	2.29	07/20/2021 11:05	A21072008.D
Benzene	71-43-2	**2.57**	J	1.86	4.65	07/20/2021 11:05	A21072008.D
Trichloroethene	79-01-6	<1.49		1.49	2.99	07/20/2021 11:05	A21072008.D
1,4-Dioxane	123-91-1	<1.20		1.20	2.40	07/20/2021 11:05	A21072008.D
1,1,2-Trichloroethane	79-00-5	<1.49		1.49	2.99	07/20/2021 11:05	A21072008.D
Toluene	108-88-3	**3.06**	J	2.46	6.16	07/20/2021 11:05	A21072008.D
1,2-Dibromoethane (EDB)	106-93-4	<1.26		1.26	2.53	07/20/2021 11:05	A21072008.D
Tetrachloroethene	127-18-4	**1.74**	J	1.20	2.40	07/20/2021 11:05	A21072008.D
1,1,1,2-Tetrachloroethane	630-20-6	<1.20		1.20	2.40	07/20/2021 11:05	A21072008.D
Chlorobenzene	108-90-7	<0.580		0.580	1.16	07/20/2021 11:05	A21072008.D
Ethylbenzene	100-41-4	<1.16		1.16	2.90	07/20/2021 11:05	A21072008.D
p & m-Xylene	179601-23-1	**1.67**	J	1.12	2.80	07/20/2021 11:05	A21072008.D
1,1,2,2-Tetrachloroethane	79-34-5	<1.20		1.20	2.40	07/20/2021 11:05	A21072008.D
o-Xylene	95-47-6	**1.32**	J	1.12	2.80	07/20/2021 11:05	A21072008.D
1,2,3-Trichloropropane	96-18-4	<0.657		0.657	1.31	07/20/2021 11:05	A21072008.D
Isopropylbenzene	98-82-8	<1.19		1.19	2.97	07/20/2021 11:05	A21072008.D
1,3,5-Trimethylbenzene	108-67-8	**3.10**		1.19	2.97	07/20/2021 11:05	A21072008.D
1,2,4-Trimethylbenzene	95-63-6	**4.72**		1.19	2.97	07/20/2021 11:05	A21072008.D
1,3-Dichlorobenzene	541-73-1	<0.657		0.657	1.31	07/20/2021 11:05	A21072008.D
1,4-Dichlorobenzene	106-46-7	<0.657		0.657	1.31	07/20/2021 11:05	A21072008.D
1,2-Dichlorobenzene	95-50-1	<0.657		0.657	1.31	07/20/2021 11:05	A21072008.D
1,2,4-Trichlorobenzene	120-82-1	<1.26		1.26	2.53	07/20/2021 11:05	A21072008.D
Naphthalene	91-20-3	<0.616		0.616	1.23	07/20/2021 11:05	A21072008.D
1,2,3-Trichlorobenzene	87-61-6	<1.26		1.26	2.53	07/20/2021 11:05	A21072008.D
2-Methylnaphthalene	91-57-6	<0.648		0.648	1.30	07/20/2021 11:05	A21072008.D

Analyte	*CAS#*	*% Recovery*	*Recovery Limits*	*Q*	*Analyzed*	*File ID*
Surrogate: 1,2-DCA-d4	17060-07-0	*88.6%*	*70-130*		*07/20/2021 11:05*	*A21072008.D*
Surrogate: Toluene-d8	2037-26-5	*92.3%*	*70-130*		*07/20/2021 11:05*	*A21072008.D*
Surrogate: Bromofluorobenzene	460-00-4	*96.8%*	*70-130*		*07/20/2021 11:05*	*A21072008.D*

BEACON ENVIRONMENTAL

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CERTIFICATE OF ANALYSIS

AECOM	**Site Name:** SMUD 59th Street Corporation Yard	**Beacon Proposal:** 210625R02
2020 L Street, Suite 300	**Site Location:** Sacramento, CA	**Lab Work Order:** 0005847
Sacramento, CA 95811	**Project Manager:** Robert Kohlhardt	**Reported:** 07/29/2021

Lab Sample ID: 0005847-05

J-SEW-01P

Sewer Gas

Method: TO-17 (Passive)

Analyte	CAS#	Result (µg/m³)	Q	LOD (µg/m³)	LOQ (µg/m³)	Analyzed	File ID
Vinyl Chloride	75-01-4	<0.606		0.606	1.21	07/20/2021 11:34	A21072009.D
1,1-Dichloroethene	75-35-4	<1.49		1.49	2.97	07/20/2021 11:34	A21072009.D
1,1,2-Trichlorotrifluoroethane (Fr.113)	76-13-1	<0.551		0.551	1.10	07/20/2021 11:34	A21072009.D
trans-1,2-Dichloroethene	156-60-5	<1.11		1.11	2.23	07/20/2021 11:34	A21072009.D
Methyl-t-butyl ether	1634-04-4	<1.96		1.96	4.90	07/20/2021 11:34	A21072009.D
1,1-Dichloroethane	75-34-3	<0.577		0.577	1.15	07/20/2021 11:34	A21072009.D
cis-1,2-Dichloroethene	156-59-2	<0.925		0.925	1.85	07/20/2021 11:34	A21072009.D
Chloroform	67-66-3	**9.81**		1.40	2.80	07/20/2021 11:34	A21072009.D
1,2-Dichloroethane	107-06-2	<0.876		0.876	1.75	07/20/2021 11:34	A21072009.D
1,1,1-Trichloroethane	71-55-6	<0.467		0.467	0.934	07/20/2021 11:34	A21072009.D
Carbon Tetrachloride	56-23-5	<1.14		1.14	2.28	07/20/2021 11:34	A21072009.D
Benzene	71-43-2	**3.32**	J	1.85	4.63	07/20/2021 11:34	A21072009.D
Trichloroethene	79-01-6	<1.49		1.49	2.97	07/20/2021 11:34	A21072009.D
1,4-Dioxane	123-91-1	<1.20		1.20	2.39	07/20/2021 11:34	A21072009.D
1,1,2-Trichloroethane	79-00-5	<1.49		1.49	2.97	07/20/2021 11:34	A21072009.D
Toluene	108-88-3	<2.45		2.45	6.13	07/20/2021 11:34	A21072009.D
1,2-Dibromoethane (EDB)	106-93-4	<1.26		1.26	2.52	07/20/2021 11:34	A21072009.D
Tetrachloroethene	127-18-4	<1.20		1.20	2.39	07/20/2021 11:34	A21072009.D
1,1,1,2-Tetrachloroethane	630-20-6	<1.20		1.20	2.39	07/20/2021 11:34	A21072009.D
Chlorobenzene	108-90-7	<0.577		0.577	1.15	07/20/2021 11:34	A21072009.D
Ethylbenzene	100-41-4	<1.15		1.15	2.89	07/20/2021 11:34	A21072009.D
p & m-Xylene	179601-23-1	<1.11		1.11	2.79	07/20/2021 11:34	A21072009.D
1,1,2,2-Tetrachloroethane	79-34-5	<1.20		1.20	2.39	07/20/2021 11:34	A21072009.D
o-Xylene	95-47-6	<1.11		1.11	2.79	07/20/2021 11:34	A21072009.D
1,2,3-Trichloropropane	96-18-4	<0.654		0.654	1.31	07/20/2021 11:34	A21072009.D
Isopropylbenzene	98-82-8	<1.18		1.18	2.95	07/20/2021 11:34	A21072009.D
1,3,5-Trimethylbenzene	108-67-8	<1.18		1.18	2.95	07/20/2021 11:34	A21072009.D
1,2,4-Trimethylbenzene	95-63-6	<1.18		1.18	2.95	07/20/2021 11:34	A21072009.D
1,3-Dichlorobenzene	541-73-1	<0.654		0.654	1.31	07/20/2021 11:34	A21072009.D
1,4-Dichlorobenzene	106-46-7	<0.654		0.654	1.31	07/20/2021 11:34	A21072009.D
1,2-Dichlorobenzene	95-50-1	<0.654		0.654	1.31	07/20/2021 11:34	A21072009.D
1,2,4-Trichlorobenzene	120-82-1	<1.26		1.26	2.52	07/20/2021 11:34	A21072009.D
Naphthalene	91-20-3	<0.613		0.613	1.23	07/20/2021 11:34	A21072009.D
1,2,3-Trichlorobenzene	87-61-6	<1.26		1.26	2.52	07/20/2021 11:34	A21072009.D
2-Methylnaphthalene	91-57-6	<0.645		0.645	1.29	07/20/2021 11:34	A21072009.D

Analyte	*CAS#*	*% Recovery*	*Recovery Limits*	*Q*	*Analyzed*	*File ID*
Surrogate: 1,2-DCA-d4	17060-07-0	*88.0%*	*70-130*		*07/20/2021 11:34*	*A21072009.D*
Surrogate: Toluene-d8	2037-26-5	*93.7%*	*70-130*		*07/20/2021 11:34*	*A21072009.D*
Surrogate: Bromofluorobenzene	460-00-4	*98.1%*	*70-130*		*07/20/2021 11:34*	*A21072009.D*

BEACON ENVIRONMENTAL

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CERTIFICATE OF ANALYSIS

AECOM	**Site Name:** SMUD 59th Street Corporation Yard	**Beacon Proposal:** 210625R02
2020 L Street, Suite 300	**Site Location:** Sacramento, CA	**Lab Work Order:** 0005847
Sacramento, CA 95811	**Project Manager:** Robert Kohlhardt	**Reported:** 07/29/2021

Lab Sample ID: 0005847-06

H-SEW-03P

Sewer Gas

Method: TO-17 (Passive)

Analyte	CAS#	Result (µg/m³)	Q	LOD (µg/m³)	LOQ (µg/m³)	Analyzed	File ID
Vinyl Chloride	75-01-4	<0.608		0.608	1.22	07/20/2021 12:03	A21072010.D
1,1-Dichloroethene	75-35-4	<1.49		1.49	2.98	07/20/2021 12:03	A21072010.D
1,1,2-Trichlorotrifluoroethane (Fr.113)	76-13-1	<0.553		0.553	1.11	07/20/2021 12:03	A21072010.D
trans-1,2-Dichloroethene	156-60-5	<1.12		1.12	2.24	07/20/2021 12:03	A21072010.D
Methyl-t-butyl ether	1634-04-4	<1.97		1.97	4.93	07/20/2021 12:03	A21072010.D
1,1-Dichloroethane	75-34-3	<0.579		0.579	1.16	07/20/2021 12:03	A21072010.D
cis-1,2-Dichloroethene	156-59-2	<0.929		0.929	1.86	07/20/2021 12:03	A21072010.D
Chloroform	67-66-3	**1.54**	J	1.41	2.81	07/20/2021 12:03	A21072010.D
1,2-Dichloroethane	107-06-2	<0.879		0.879	1.76	07/20/2021 12:03	A21072010.D
1,1,1-Trichloroethane	71-55-6	<0.469		0.469	0.938	07/20/2021 12:03	A21072010.D
Carbon Tetrachloride	56-23-5	<1.15		1.15	2.29	07/20/2021 12:03	A21072010.D
Benzene	71-43-2	**2.22**	J	1.86	4.65	07/20/2021 12:03	A21072010.D
Trichloroethene	79-01-6	<1.49		1.49	2.98	07/20/2021 12:03	A21072010.D
1,4-Dioxane	123-91-1	<1.20		1.20	2.40	07/20/2021 12:03	A21072010.D
1,1,2-Trichloroethane	79-00-5	<1.49		1.49	2.98	07/20/2021 12:03	A21072010.D
Toluene	108-88-3	**21.1**		2.46	6.16	07/20/2021 12:03	A21072010.D
1,2-Dibromoethane (EDB)	106-93-4	<1.26		1.26	2.53	07/20/2021 12:03	A21072010.D
Tetrachloroethene	127-18-4	<1.20		1.20	2.40	07/20/2021 12:03	A21072010.D
1,1,1,2-Tetrachloroethane	630-20-6	<1.20		1.20	2.40	07/20/2021 12:03	A21072010.D
Chlorobenzene	108-90-7	<0.579		0.579	1.16	07/20/2021 12:03	A21072010.D
Ethylbenzene	100-41-4	**1.41**	J	1.16	2.90	07/20/2021 12:03	A21072010.D
p & m-Xylene	179601-23-1	**5.75**		1.12	2.80	07/20/2021 12:03	A21072010.D
1,1,2,2-Tetrachloroethane	79-34-5	<1.20		1.20	2.40	07/20/2021 12:03	A21072010.D
o-Xylene	95-47-6	**4.91**		1.12	2.80	07/20/2021 12:03	A21072010.D
1,2,3-Trichloropropane	96-18-4	<0.657		0.657	1.31	07/20/2021 12:03	A21072010.D
Isopropylbenzene	98-82-8	<1.19		1.19	2.97	07/20/2021 12:03	A21072010.D
1,3,5-Trimethylbenzene	108-67-8	<1.19		1.19	2.97	07/20/2021 12:03	A21072010.D
1,2,4-Trimethylbenzene	95-63-6	**1.22**	J	1.19	2.97	07/20/2021 12:03	A21072010.D
1,3-Dichlorobenzene	541-73-1	<0.657		0.657	1.31	07/20/2021 12:03	A21072010.D
1,4-Dichlorobenzene	106-46-7	<0.657		0.657	1.31	07/20/2021 12:03	A21072010.D
1,2-Dichlorobenzene	95-50-1	<0.657		0.657	1.31	07/20/2021 12:03	A21072010.D
1,2,4-Trichlorobenzene	120-82-1	<1.26		1.26	2.53	07/20/2021 12:03	A21072010.D
Naphthalene	91-20-3	<0.616		0.616	1.23	07/20/2021 12:03	A21072010.D
1,2,3-Trichlorobenzene	87-61-6	<1.26		1.26	2.53	07/20/2021 12:03	A21072010.D
2-Methylnaphthalene	91-57-6	<0.648		0.648	1.30	07/20/2021 12:03	A21072010.D

Analyte	*CAS#*	*% Recovery*	*Recovery Limits*	*Q*	*Analyzed*	*File ID*
Surrogate: 1,2-DCA-d4	17060-07-0	*86.9%*	*70-130*		*07/20/2021 12:03*	*A21072010.D*
Surrogate: Toluene-d8	2037-26-5	*91.1%*	*70-130*		*07/20/2021 12:03*	*A21072010.D*
Surrogate: Bromofluorobenzene	460-00-4	*99.9%*	*70-130*		*07/20/2021 12:03*	*A21072010.D*

2203A Commerce Road, Suite 1
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AECOM	**Site Name:** SMUD 59th Street Corporation Yard	**Beacon Proposal:** 210625R02
2020 L Street, Suite 300	**Site Location:** Sacramento, CA	**Lab Work Order:** 0005847
Sacramento, CA 95811	**Project Manager:** Robert Kohlhardt	**Reported:** 07/29/2021

QC Information/Summary

2203A Commerce Road, Suite 1
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AECOM	**Site Name:** SMUD 59th Street Corporation Yard	**Beacon Proposal:** 210625R02
2020 L Street, Suite 300	**Site Location:** Sacramento, CA	**Lab Work Order:** 0005847
Sacramento, CA 95811	**Project Manager:** Robert Kohlhardt	**Reported:** 07/29/2021

Organics in Air by EPA TO-17 Using Beacon Sampler - Quality Control Summary

Sequence: B21G039 - Instrument: A System - File ID: A21071316.D

B21G039-ICV1 (LCSD/Second Source Verification/CALV)

Analyte	Result	LOQ	LOD	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Vinyl Chloride	45.7	10	5	ng	50.0		91.4	70-130			
1,1-Dichloroethene	49.2	10	5	ng	50.0		98.3	70-130			
1,1,2-Trichlorotrifluoroethane (Fr.113)	51.8	10	5	ng	50.0		104	70-130			
trans-1,2-Dichloroethene	47.7	10	5	ng	50.0		95.3	70-130			
Methyl-t-butyl ether	52.5	25	10	ng	50.0		105	70-130			
1,1-Dichloroethane	48.7	10	5	ng	50.0		97.4	70-130			
cis-1,2-Dichloroethene	50.6	10	5	ng	50.0		101	70-130			
Chloroform	48.9	10	5	ng	50.0		97.9	70-130			
1,2-Dichloroethane	47.9	10	5	ng	50.0		95.8	70-130			
1,1,1-Trichloroethane	49.6	10	5	ng	50.0		99.2	70-130			
Carbon Tetrachloride	50.1	10	5	ng	50.0		100	70-130			
Benzene	49.5	25	10	ng	50.0		98.9	70-130			
Trichloroethene	49.3	10	5	ng	50.0		98.7	70-130			
1,4-Dioxane	48.8	10	5	ng	50.0		97.6	70-130			
1,1,2-Trichloroethane	49.6	10	5	ng	50.0		99.3	70-130			
Toluene	48.8	25	10	ng	50.0		97.6	70-130			
1,2-Dibromoethane (EDB)	50.4	10	5	ng	50.0		101	70-130			
Tetrachloroethene	50.3	10	5	ng	50.0		101	70-130			
1,1,1,2-Tetrachloroethane	48.9	10	5	ng	50.0		97.7	70-130			
Chlorobenzene	50.0	10	5	ng	50.0		99.9	70-130			
Ethylbenzene	50.3	25	10	ng	50.0		101	70-130			
p & m-Xylene	48.7	25	10	ng	50.0		97.3	70-130			
1,1,2,2-Tetrachloroethane	50.0	10	5	ng	50.0		100	70-130			
o-Xylene	49.2	25	10	ng	50.0		98.3	70-130			
1,2,3-Trichloropropane	49.8	10	5	ng	50.0		99.6	70-130			
Isopropylbenzene	50.6	25	10	ng	50.0		101	70-130			
1,3,5-Trimethylbenzene	50.6	25	10	ng	50.0		101	70-130			
1,2,4-Trimethylbenzene	50.2	25	10	ng	50.0		100	70-130			
1,3-Dichlorobenzene	50.4	10	5	ng	50.0		101	70-130			
1,4-Dichlorobenzene	50.1	10	5	ng	50.0		100	70-130			
1,2-Dichlorobenzene	50.7	10	5	ng	50.0		101	70-130			
1,2,4-Trichlorobenzene	52.3	10	5	ng	50.0		105	70-130			
Naphthalene	53.3	10	5	ng	50.0		107	70-130			
1,2,3-Trichlorobenzene	52.2	10	5	ng	50.0		104	70-130			
2-Methylnaphthalene	55.2	10	5	ng	50.0		110	70-130			
Surrogate: 1,2-DCA-d4	*49.8*			*ng*	50.0		*99.6*	*70-130*			
Surrogate: Toluene-d8	*50.3*			*ng*	50.0		*101*	*70-130*			
Surrogate: Bromofluorobenzene	*48.2*			*ng*	50.0		*96.4*	*70-130*			

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AECOM	**Site Name:** SMUD 59th Street Corporation Yard	**Beacon Proposal:** 210625R02
2020 L Street, Suite 300	**Site Location:** Sacramento, CA	**Lab Work Order:** 0005847
Sacramento, CA 95811	**Project Manager:** Robert Kohlhardt	**Reported:** 07/29/2021

Organics in Air by EPA TO-17 Using Beacon Sampler - Quality Control Summary

Sequence: B21G039 - Instrument: A System - File ID: A21071319.D

B21G039-ICB1 (Lab Blank/Initial Calibration Blank)

Analyte	Result	LOQ	LOD	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Vinyl Chloride	<5	10	5	ng							U
1,1-Dichloroethene	<5	10	5	ng							U
1,1,2-Trichlorotrifluoroethane (Fr.113)	<5	10	5	ng							U
trans-1,2-Dichloroethene	<5	10	5	ng							U
Methyl-t-butyl ether	<10	25	10	ng							U
1,1-Dichloroethane	<5	10	5	ng							U
cis-1,2-Dichloroethene	<5	10	5	ng							U
Chloroform	<5	10	5	ng							U
1,2-Dichloroethane	<5	10	5	ng							U
1,1,1-Trichloroethane	<5	10	5	ng							U
Carbon Tetrachloride	<5	10	5	ng							U
Benzene	<10	25	10	ng							U
Trichloroethene	<5	10	5	ng							U
1,4-Dioxane	<5	10	5	ng							U
1,1,2-Trichloroethane	<5	10	5	ng							U
Toluene	<10	25	10	ng							U
1,2-Dibromoethane (EDB)	<5	10	5	ng							U
Tetrachloroethene	<5	10	5	ng							U
1,1,1,2-Tetrachloroethane	<5	10	5	ng							U
Chlorobenzene	<5	10	5	ng							U
Ethylbenzene	<10	25	10	ng							U
p & m-Xylene	<10	25	10	ng							U
1,1,2,2-Tetrachloroethane	<5	10	5	ng							U
o-Xylene	<10	25	10	ng							U
1,2,3-Trichloropropane	<5	10	5	ng							U
Isopropylbenzene	<10	25	10	ng							U
1,3,5-Trimethylbenzene	<10	25	10	ng							U
1,2,4-Trimethylbenzene	<10	25	10	ng							U
1,3-Dichlorobenzene	<5	10	5	ng							U
1,4-Dichlorobenzene	<5	10	5	ng							U
1,2-Dichlorobenzene	<5	10	5	ng							U
1,2,4-Trichlorobenzene	<5	10	5	ng							U
Naphthalene	<5	10	5	ng							U
1,2,3-Trichlorobenzene	<5	10	5	ng							U
2-Methylnaphthalene	<5	10	5	ng							U
Surrogate: 1,2-DCA-d4	*98.2*			*ng*	100		*98.2*	*70-130*			
Surrogate: Toluene-d8	*98.2*			*ng*	100		*98.2*	*70-130*			
Surrogate: Bromofluorobenzene	*96.5*			*ng*	100		*96.5*	*70-130*			

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AECOM	**Site Name:** SMUD 59th Street Corporation Yard	**Beacon Proposal:** 210625R02
2020 L Street, Suite 300	**Site Location:** Sacramento, CA	**Lab Work Order:** 0005847
Sacramento, CA 95811	**Project Manager:** Robert Kohlhardt	**Reported:** 07/29/2021

Organics in Air by EPA TO-17 Using Beacon Sampler - Quality Control Summary

Sequence: B21G068 - Batch: 21G0064 - Instrument: A System - File ID: A21072002.D

21G0064-BS1 (LCS, Calibration Source Verification)

Analyte	Result	LOQ	LOD	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Vinyl Chloride	44.8	10	5	ng	50.0		89.6	70-130			
1,1-Dichloroethene	49.2	10	5	ng	50.0		98.4	70-130			
1,1,2-Trichlorotrifluoroethane (Fr.113)	48.1	10	5	ng	50.0		96.1	70-130			
trans-1,2-Dichloroethene	47.9	10	5	ng	50.0		95.8	70-130			
Methyl-t-butyl ether	50.2	25	10	ng	50.0		100	70-130			
1,1-Dichloroethane	47.7	10	5	ng	50.0		95.5	70-130			
cis-1,2-Dichloroethene	49.9	10	5	ng	50.0		99.8	70-130			
Chloroform	48.9	10	5	ng	50.0		97.8	70-130			
1,2-Dichloroethane	47.8	10	5	ng	50.0		95.5	70-130			
1,1,1-Trichloroethane	47.8	10	5	ng	50.0		95.6	70-130			
Carbon Tetrachloride	50.3	10	5	ng	50.0		101	70-130			
Benzene	48.8	25	10	ng	50.0		97.6	70-130			
Trichloroethene	49.8	10	5	ng	50.0		99.6	70-130			
1,4-Dioxane	48.1	10	5	ng	50.0		96.1	70-130			
1,1,2-Trichloroethane	49.5	10	5	ng	50.0		99.0	70-130			
Toluene	47.6	25	10	ng	50.0		95.2	70-130			
1,2-Dibromoethane (EDB)	49.2	10	5	ng	50.0		98.4	70-130			
Tetrachloroethene	50.0	10	5	ng	50.0		100	70-130			
1,1,1,2-Tetrachloroethane	48.5	10	5	ng	50.0		96.9	70-130			
Chlorobenzene	49.5	10	5	ng	50.0		99.1	70-130			
Ethylbenzene	49.6	25	10	ng	50.0		99.1	70-130			
p & m-Xylene	47.8	25	10	ng	50.0		95.6	70-130			
1,1,2,2-Tetrachloroethane	48.5	10	5	ng	50.0		96.9	70-130			
o-Xylene	49.1	25	10	ng	50.0		98.2	70-130			
1,2,3-Trichloropropane	48.3	10	5	ng	50.0		96.6	70-130			
Isopropylbenzene	48.8	25	10	ng	50.0		97.6	70-130			
1,3,5-Trimethylbenzene	49.8	25	10	ng	50.0		99.6	70-130			
1,2,4-Trimethylbenzene	48.0	25	10	ng	50.0		96.1	70-130			
1,3-Dichlorobenzene	49.3	10	5	ng	50.0		98.6	70-130			
1,4-Dichlorobenzene	48.9	10	5	ng	50.0		97.7	70-130			
1,2-Dichlorobenzene	49.0	10	5	ng	50.0		97.9	70-130			
1,2,4-Trichlorobenzene	49.6	10	5	ng	50.0		99.2	70-130			
Naphthalene	49.2	10	5	ng	50.0		98.3	70-130			
1,2,3-Trichlorobenzene	49.1	10	5	ng	50.0		98.2	70-130			
2-Methylnaphthalene	49.4	10	5	ng	50.0		98.9	70-130			
Surrogate: 1,2-DCA-d4	*48.5*			*ng*	50.0		*97.1*	*70-130*			
Surrogate: Toluene-d8	*49.3*			*ng*	50.0		*98.6*	*70-130*			
Surrogate: Bromofluorobenzene	*48.0*			*ng*	50.0		*96.0*	*70-130*			

BEACON ENVIRONMENTAL

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CERTIFICATE OF ANALYSIS

AECOM	**Site Name:** SMUD 59th Street Corporation Yard	**Beacon Proposal:** 210625R02
2020 L Street, Suite 300	**Site Location:** Sacramento, CA	**Lab Work Order:** 0005847
Sacramento, CA 95811	**Project Manager:** Robert Kohlhardt	**Reported:** 07/29/2021

Organics in Air by EPA TO-17 Using Beacon Sampler - Quality Control Summary

Sequence: B21G068 - Batch: 21G0064 - Instrument: A System - File ID: A21072003.D

21G0064-BLK1 (Lab Blank)

Analyte	Result	LOQ	LOD	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Vinyl Chloride	<0.603	1.21	0.603	µg/m³							
1,1-Dichloroethene	<1.48	2.96	1.48	µg/m³							
1,1,2-Trichlorotrifluoroethane (Fr.113)	<0.549	1.10	0.549	µg/m³							
trans-1,2-Dichloroethene	<1.11	2.22	1.11	µg/m³							
Methyl-t-butyl ether	<1.95	4.88	1.95	µg/m³							
1,1-Dichloroethane	<0.574	1.15	0.574	µg/m³							
cis-1,2-Dichloroethene	<0.921	1.84	0.921	µg/m³							
Chloroform	<1.39	2.79	1.39	µg/m³							
1,2-Dichloroethane	<0.872	1.74	0.872	µg/m³							
1,1,1-Trichloroethane	<0.465	0.930	0.465	µg/m³							
Carbon Tetrachloride	<1.14	2.27	1.14	µg/m³							
Benzene	<1.84	4.61	1.84	µg/m³							
Trichloroethene	<1.48	2.96	1.48	µg/m³							
1,4-Dioxane	<1.19	2.38	1.19	µg/m³							
1,1,2-Trichloroethane	<1.48	2.96	1.48	µg/m³							
Toluene	<2.44	6.10	2.44	µg/m³							
1,2-Dibromoethane (EDB)	<1.25	2.50	1.25	µg/m³							
Tetrachloroethene	<1.19	2.38	1.19	µg/m³							
1,1,1,2-Tetrachloroethane	<1.19	2.38	1.19	µg/m³							
Chlorobenzene	<0.574	1.15	0.574	µg/m³							
Ethylbenzene	<1.15	2.87	1.15	µg/m³							
p & m-Xylene	<1.11	2.77	1.11	µg/m³							
1,1,2,2-Tetrachloroethane	<1.19	2.38	1.19	µg/m³							
o-Xylene	<1.11	2.77	1.11	µg/m³							
1,2,3-Trichloropropane	<0.651	1.30	0.651	µg/m³							
Isopropylbenzene	<1.18	2.94	1.18	µg/m³							
1,3,5-Trimethylbenzene	<1.18	2.94	1.18	µg/m³							
1,2,4-Trimethylbenzene	<1.18	2.94	1.18	µg/m³							
1,3-Dichlorobenzene	<0.651	1.30	0.651	µg/m³							
1,4-Dichlorobenzene	<0.651	1.30	0.651	µg/m³							
1,2-Dichlorobenzene	<0.651	1.30	0.651	µg/m³							
1,2,4-Trichlorobenzene	<1.25	2.50	1.25	µg/m³							
Naphthalene	<0.610	1.22	0.610	µg/m³							
1,2,3-Trichlorobenzene	<1.25	2.50	1.25	µg/m³							
2-Methylnaphthalene	<0.642	1.28	0.642	µg/m³							
Surrogate: 1,2-DCA-d4	*97.0*			*ng*	100		*97.0*	*70-130*			
Surrogate: Toluene-d8	*97.3*			*ng*	100		*97.3*	*70-130*			
Surrogate: Bromofluorobenzene	*95.9*			*ng*	100		*95.9*	*70-130*			

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AECOM	**Site Name:** SMUD 59th Street Corporation Yard	**Beacon Proposal:** 210625R02
2020 L Street, Suite 300	**Site Location:** Sacramento, CA	**Lab Work Order:** 0005847
Sacramento, CA 95811	**Project Manager:** Robert Kohlhardt	**Reported:** 07/29/2021

Organics in Air by EPA TO-17 Using Beacon Sampler - Quality Control Summary

Sequence: B21G068 - Instrument: A System - File ID: A21072004.D

B21G068-ICV1 (LCSD/Second Source Verification/CALV)

Analyte	Result	LOQ	LOD	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Vinyl Chloride	51.0	10	5	ng	50.0		102	70-130			
1,1-Dichloroethene	50.1	10	5	ng	50.0		100	70-130			
1,1,2-Trichlorotrifluoroethane (Fr.113)	49.3	10	5	ng	50.0		98.6	70-130			
trans-1,2-Dichloroethene	48.0	10	5	ng	50.0		96.0	70-130			
Methyl-t-butyl ether	50.0	25	10	ng	50.0		99.9	70-130			
1,1-Dichloroethane	48.7	10	5	ng	50.0		97.4	70-130			
cis-1,2-Dichloroethene	50.4	10	5	ng	50.0		101	70-130			
Chloroform	49.0	10	5	ng	50.0		98.0	70-130			
1,2-Dichloroethane	47.2	10	5	ng	50.0		94.4	70-130			
1,1,1-Trichloroethane	48.3	10	5	ng	50.0		96.6	70-130			
Carbon Tetrachloride	50.5	10	5	ng	50.0		101	70-130			
Benzene	50.7	25	10	ng	50.0		101	70-130			
Trichloroethene	49.0	10	5	ng	50.0		98.0	70-130			
1,4-Dioxane	48.9	10	5	ng	50.0		97.7	70-130			
1,1,2-Trichloroethane	48.3	10	5	ng	50.0		96.6	70-130			
Toluene	47.9	25	10	ng	50.0		95.8	70-130			
1,2-Dibromoethane (EDB)	48.4	10	5	ng	50.0		96.9	70-130			
Tetrachloroethene	49.0	10	5	ng	50.0		97.9	70-130			
1,1,1,2-Tetrachloroethane	48.7	10	5	ng	50.0		97.5	70-130			
Chlorobenzene	49.6	10	5	ng	50.0		99.3	70-130			
Ethylbenzene	49.6	25	10	ng	50.0		99.1	70-130			
p & m-Xylene	47.9	25	10	ng	50.0		95.7	70-130			
1,1,2,2-Tetrachloroethane	47.3	10	5	ng	50.0		94.6	70-130			
o-Xylene	48.6	25	10	ng	50.0		97.2	70-130			
1,2,3-Trichloropropane	48.5	10	5	ng	50.0		97.0	70-130			
Isopropylbenzene	49.2	25	10	ng	50.0		98.5	70-130			
1,3,5-Trimethylbenzene	49.2	25	10	ng	50.0		98.4	70-130			
1,2,4-Trimethylbenzene	48.6	25	10	ng	50.0		97.2	70-130			
1,3-Dichlorobenzene	49.4	10	5	ng	50.0		98.8	70-130			
1,4-Dichlorobenzene	48.3	10	5	ng	50.0		96.5	70-130			
1,2-Dichlorobenzene	49.2	10	5	ng	50.0		98.3	70-130			
1,2,4-Trichlorobenzene	49.3	10	5	ng	50.0		98.5	70-130			
Naphthalene	48.3	10	5	ng	50.0		96.7	70-130			
1,2,3-Trichlorobenzene	48.2	10	5	ng	50.0		96.5	70-130			
2-Methylnaphthalene	47.5	10	5	ng	50.0		94.9	70-130			
Surrogate: 1,2-DCA-d4	*49.0*			*ng*	50.0		*98.0*	*70-130*			
Surrogate: Toluene-d8	*49.0*			*ng*	50.0		*98.0*	*70-130*			
Surrogate: Bromofluorobenzene	*47.6*			*ng*	50.0		*95.2*	*70-130*			

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AECOM	**Site Name:** SMUD 59th Street Corporation Yard	**Beacon Proposal:** 210625R02
2020 L Street, Suite 300	**Site Location:** Sacramento, CA	**Lab Work Order:** 0005847
Sacramento, CA 95811	**Project Manager:** Robert Kohlhardt	**Reported:** 07/29/2021

Organics in Air by EPA TO-17 Using Beacon Sampler - Quality Control Summary

Sequence: B21G068 - Instrument: A System - File ID: A21072011.D

B21G068-CCV1 (LCS, Closing Calibration Verification)

Analyte	Result	LOQ	LOD	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Vinyl Chloride	44.9	10	5	ng	50.0		89.9	70-130			
1,1-Dichloroethene	49.9	10	5	ng	50.0		99.7	70-130			
1,1,2-Trichlorotrifluoroethane (Fr.113)	50.7	10	5	ng	50.0		101	70-130			
trans-1,2-Dichloroethene	47.8	10	5	ng	50.0		95.7	70-130			
Methyl-t-butyl ether	50.5	25	10	ng	50.0		101	70-130			
1,1-Dichloroethane	48.6	10	5	ng	50.0		97.2	70-130			
cis-1,2-Dichloroethene	49.6	10	5	ng	50.0		99.1	70-130			
Chloroform	48.1	10	5	ng	50.0		96.2	70-130			
1,2-Dichloroethane	46.6	10	5	ng	50.0		93.2	70-130			
1,1,1-Trichloroethane	48.9	10	5	ng	50.0		97.9	70-130			
Carbon Tetrachloride	51.8	10	5	ng	50.0		104	70-130			
Benzene	50.5	25	10	ng	50.0		101	70-130			
Trichloroethene	49.1	10	5	ng	50.0		98.3	70-130			
1,4-Dioxane	48.9	10	5	ng	50.0		97.7	70-130			
1,1,2-Trichloroethane	49.7	10	5	ng	50.0		99.3	70-130			
Toluene	48.1	25	10	ng	50.0		96.3	70-130			
1,2-Dibromoethane (EDB)	49.5	10	5	ng	50.0		99.0	70-130			
Tetrachloroethene	49.7	10	5	ng	50.0		99.4	70-130			
1,1,1,2-Tetrachloroethane	48.2	10	5	ng	50.0		96.5	70-130			
Chlorobenzene	49.0	10	5	ng	50.0		98.0	70-130			
Ethylbenzene	49.5	25	10	ng	50.0		99.0	70-130			
p & m-Xylene	47.5	25	10	ng	50.0		95.1	70-130			
1,1,2,2-Tetrachloroethane	48.2	10	5	ng	50.0		96.5	70-130			
o-Xylene	48.8	25	10	ng	50.0		97.6	70-130			
1,2,3-Trichloropropane	48.5	10	5	ng	50.0		97.1	70-130			
Isopropylbenzene	49.3	25	10	ng	50.0		98.6	70-130			
1,3,5-Trimethylbenzene	49.0	25	10	ng	50.0		97.9	70-130			
1,2,4-Trimethylbenzene	48.0	25	10	ng	50.0		96.0	70-130			
1,3-Dichlorobenzene	48.6	10	5	ng	50.0		97.1	70-130			
1,4-Dichlorobenzene	48.5	10	5	ng	50.0		96.9	70-130			
1,2-Dichlorobenzene	49.0	10	5	ng	50.0		98.1	70-130			
1,2,4-Trichlorobenzene	49.0	10	5	ng	50.0		98.1	70-130			
Naphthalene	49.4	10	5	ng	50.0		98.8	70-130			
1,2,3-Trichlorobenzene	49.0	10	5	ng	50.0		98.1	70-130			
2-Methylnaphthalene	49.2	10	5	ng	50.0		98.3	70-130			
Surrogate: 1,2-DCA-d4	*49.0*			*ng*	50.0		*98.0*	*70-130*			
Surrogate: Toluene-d8	*49.0*			*ng*	50.0		*97.9*	*70-130*			
Surrogate: Bromofluorobenzene	*48.2*			*ng*	50.0		*96.4*	*70-130*			

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CERTIFICATE OF ANALYSIS

AECOM	**Site Name:** SMUD 59th Street Corporation Yard	**Beacon Proposal:** 210625R02
2020 L Street, Suite 300	**Site Location:** Sacramento, CA	**Lab Work Order:** 0005847
Sacramento, CA 95811	**Project Manager:** Robert Kohlhardt	**Reported:** 07/29/2021

TO-17 (Passive) - LCS/LCSD Quality Control Summary

LCS: 21G0064-BS1 File ID: A21072002.D Analyzed: 7/20/21 9:13
LCSD: B21G068-ICV1 File ID: A21072004.D Analyzed: 7/20/21 8:25

Analyte	CAS#	LCS Result (ng)	%REC	Q	Spike Level (ng)	LCSD Result (ng)	%REC	%REC Limits	RPD	RPD Limit	Q
Vinyl Chloride	75-01-4	44.82	89.64		50	51.03	102.00	70-130	12.96	30	
1,1-Dichloroethene	75-35-4	49.21	98.42		50	50.06	100.00	70-130	1.71	30	
1,1,2-Trichlorotrifluoroethane (Fr.113)	76-13-1	48.07	96.14		50	49.31	98.60	70-130	2.55	30	
trans-1,2-Dichloroethene	156-60-5	47.92	95.84		50	48.02	96.00	70-130	0.21	30	
Methyl-t-butyl ether	1634-04-4	50.19	100.38		50	49.95	99.90	70-130	0.48	30	
1,1-Dichloroethane	75-34-3	47.74	95.48		50	48.7	97.40	70-130	1.99	30	
cis-1,2-Dichloroethene	156-59-2	49.89	99.78		50	50.4	101.00	70-130	1.02	30	
Chloroform	67-66-3	48.89	97.78		50	49.02	98.00	70-130	0.27	30	
1,2-Dichloroethane	107-06-2	47.77	95.54		50	47.18	94.40	70-130	1.24	30	
1,1,1-Trichloroethane	71-55-6	47.81	95.62		50	48.29	96.60	70-130	1.00	30	
Carbon Tetrachloride	56-23-5	50.26	100.52		50	50.45	101.00	70-130	0.38	30	
Benzene	71-43-2	48.78	97.56		50	50.7	101.00	70-130	3.86	30	
Trichloroethene	79-01-6	49.79	99.58		50	49.01	98.00	70-130	1.58	30	
1,4-Dioxane	123-91-1	48.06	96.12		50	48.85	97.70	70-130	1.63	30	
1,1,2-Trichloroethane	79-00-5	49.51	99.02		50	48.3	96.60	70-130	2.47	30	
Toluene	108-88-3	47.58	95.16		50	47.88	95.80	70-130	0.63	30	
1,2-Dibromoethane (EDB)	106-93-4	49.21	98.42		50	48.44	96.90	70-130	1.58	30	
Tetrachloroethene	127-18-4	49.98	99.96		50	48.97	97.90	70-130	2.04	30	
1,1,1,2-Tetrachloroethane	630-20-6	48.47	96.94		50	48.74	97.50	70-130	0.56	30	
Chlorobenzene	108-90-7	49.53	99.06		50	49.63	99.30	70-130	0.20	30	
Ethylbenzene	100-41-4	49.57	99.14		50	49.55	99.10	70-130	0.04	30	
p & m-Xylene	179601-23-1	47.78	95.56		50	47.87	95.70	70-130	0.19	30	
1,1,2,2-Tetrachloroethane	79-34-5	48.45	96.9		50	47.28	94.60	70-130	2.44	30	
o-Xylene	95-47-6	49.09	98.18		50	48.59	97.20	70-130	1.02	30	
1,2,3-Trichloropropane	96-18-4	48.30	96.6		50	48.48	97.00	70-130	0.37	30	
Isopropylbenzene	98-82-8	48.78	97.56		50	49.24	98.50	70-130	0.94	30	
1,3,5-Trimethylbenzene	108-67-8	49.82	99.64		50	49.19	98.40	70-130	1.27	30	
1,2,4-Trimethylbenzene	95-63-6	48.03	96.06		50	48.6	97.20	70-130	1.18	30	
1,3-Dichlorobenzene	541-73-1	49.29	98.58		50	49.38	98.80	70-130	0.18	30	
1,4-Dichlorobenzene	106-46-7	48.86	97.72		50	48.26	96.50	70-130	1.24	30	
1,2-Dichlorobenzene	95-50-1	48.97	97.94		50	49.17	98.30	70-130	0.41	30	
1,2,4-Trichlorobenzene	120-82-1	49.61	99.22		50	49.26	98.50	70-130	0.71	30	
Naphthalene	91-20-3	49.17	98.34		50	48.34	96.70	70-130	1.70	30	
1,2,3-Trichlorobenzene	87-61-6	49.12	98.24		50	48.23	96.50	70-130	1.83	30	
2-Methylnaphthalene	91-57-6	49.44	98.88		50	47.47	94.90	70-130	4.07	30	

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AECOM	**Site Name:** SMUD 59th Street Corporation Yard	**Beacon Proposal:** 210625R02
2020 L Street, Suite 300	**Site Location:** Sacramento, CA	**Lab Work Order:** 0005847
Sacramento, CA 95811	**Project Manager:** Robert Kohlhardt	**Reported:** 07/29/2021

Additional QC Information

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AECOM	**Site Name:** SMUD 59th Street Corporation Yard	**Beacon Proposal:** 210625R02
2020 L Street, Suite 300	**Site Location:** Sacramento, CA	**Lab Work Order:** 0005847
Sacramento, CA 95811	**Project Manager:** Robert Kohlhardt	**Reported:** 07/29/2021

Sample Result Calculation Summary (Concentration)

TO-17 (Passive)

Analyte	t Sampling Time minutes	DF Dilution Factor	Uc Uptake Rate	M Initial Result ng	C Calculated Result µg/m³	File ID
Lab ID: 0005847-01 **Sample Name:** TB-01					**X̄ Temp (°C):** 20.00	
Vinyl Chloride	10,183	1.00	0.815	U	U	A21072005.D
1,1-Dichloroethene	10,183	1.00	0.332	U	U	A21072005.D
1,1,2-Trichlorotrifluoroethane (Fr.113)	10,183	1.00	0.895 g	U	U	A21072005.D
trans-1,2-Dichloroethene	10,183	1.00	0.443	U	U	A21072005.D
Methyl-t-butyl ether	10,183	1.00	0.503 g	U	U	A21072005.D
1,1-Dichloroethane	10,183	1.00	0.855	U	U	A21072005.D
cis-1,2-Dichloroethene	10,183	1.00	0.533	U	U	A21072005.D
Chloroform	10,183	1.00	0.352 g	U	U	A21072005.D
1,2-Dichloroethane	10,183	1.00	0.563	U	U	A21072005.D
1,1,1-Trichloroethane	10,183	1.00	1.056	U	U	A21072005.D
Carbon Tetrachloride	10,183	1.00	0.432 g	U	U	A21072005.D
Benzene	10,183	1.00	0.533	U	U	A21072005.D
Trichloroethene	10,183	1.00	0.332	U	U	A21072005.D
1,4-Dioxane	10,183	1.00	0.412 g	U	U	A21072005.D
1,1,2-Trichloroethane	10,183	1.00	0.332 g	U	U	A21072005.D
Toluene	10,183	1.00	0.402	U	U	A21072005.D
1,2-Dibromoethane (EDB)	10,183	1.00	0.392 g	U	U	A21072005.D
Tetrachloroethene	10,183	1.00	0.412	U	U	A21072005.D
1,1,1,2-Tetrachloroethane	10,183	1.00	0.412 g	U	U	A21072005.D
Chlorobenzene	10,183	1.00	0.855 g	U	U	A21072005.D
Ethylbenzene	10,183	1.00	0.855	U	U	A21072005.D
p & m-Xylene	10,183	1.00	0.885	U	U	A21072005.D
1,1,2,2-Tetrachloroethane	10,183	1.00	0.412 g	U	U	A21072005.D
o-Xylene	10,183	1.00	0.885	U	U	A21072005.D
1,2,3-Trichloropropane	10,183	1.00	0.754 g	U	U	A21072005.D
Isopropylbenzene	10,183	1.00	0.835 g	U	U	A21072005.D
1,3,5-Trimethylbenzene	10,183	1.00	0.835 g	U	U	A21072005.D
1,2,4-Trimethylbenzene	10,183	1.00	0.835 g	U	U	A21072005.D
1,3-Dichlorobenzene	10,183	1.00	0.754 g	U	U	A21072005.D
1,4-Dichlorobenzene	10,183	1.00	0.754 g	U	U	A21072005.D
1,2-Dichlorobenzene	10,183	1.00	0.754 g	U	U	A21072005.D
1,2,4-Trichlorobenzene	10,183	1.00	0.392 g	U	U	A21072005.D
Naphthalene	10,183	1.00	0.805 g	U	U	A21072005.D
1,2,3-Trichlorobenzene	10,183	1.00	0.392 g	U	U	A21072005.D
2-Methylnaphthalene	10,183	1.00	0.764 g	U	U	A21072005.D

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AECOM	**Site Name:** SMUD 59th Street Corporation Yard	**Beacon Proposal:** 210625R02
2020 L Street, Suite 300	**Site Location:** Sacramento, CA	**Lab Work Order:** 0005847
Sacramento, CA 95811	**Project Manager:** Robert Kohlhardt	**Reported:** 07/29/2021

Sample Result Calculation Summary (Concentration)

TO-17 (Passive)

Analyte	t Sampling Time minutes	DF Dilution Factor	Uc Uptake Rate	M Initial Result ng	C Calculated Result µg/m³	File ID
Lab ID: 0005847-02 **Sample Name:** F-SEW-01P					**X̄ Temp (°C):** 20.00	
Vinyl Chloride	10,183	1.00	0.815	U	U	A21072006.D
1,1-Dichloroethene	10,183	1.00	0.332	U	U	A21072006.D
1,1,2-Trichlorotrifluoroethane (Fr.113)	10,183	1.00	0.895 g	U	U	A21072006.D
trans-1,2-Dichloroethene	10,183	1.00	0.443	U	U	A21072006.D
Methyl-t-butyl ether	10,183	1.00	0.503 g	U	U	A21072006.D
1,1-Dichloroethane	10,183	1.00	0.855	U	U	A21072006.D
cis-1,2-Dichloroethene	10,183	1.00	0.533	U	U	A21072006.D
Chloroform	10,183	1.00	0.352 g	U	U	A21072006.D
1,2-Dichloroethane	10,183	1.00	0.563	U	U	A21072006.D
1,1,1-Trichloroethane	10,183	1.00	1.056	U	U	A21072006.D
Carbon Tetrachloride	10,183	1.00	0.432 g	U	U	A21072006.D
Benzene	10,183	1.00	0.533	27.48	5.06	A21072006.D
Trichloroethene	10,183	1.00	0.332	U	U	A21072006.D
1,4-Dioxane	10,183	1.00	0.412 g	U	U	A21072006.D
1,1,2-Trichloroethane	10,183	1.00	0.332 g	U	U	A21072006.D
Toluene	10,183	1.00	0.402	U	U	A21072006.D
1,2-Dibromoethane (EDB)	10,183	1.00	0.392 g	U	U	A21072006.D
Tetrachloroethene	10,183	1.00	0.412	U	U	A21072006.D
1,1,1,2-Tetrachloroethane	10,183	1.00	0.412 g	U	U	A21072006.D
Chlorobenzene	10,183	1.00	0.855 g	U	U	A21072006.D
Ethylbenzene	10,183	1.00	0.855	U	U	A21072006.D
p & m-Xylene	10,183	1.00	0.885	U	U	A21072006.D
1,1,2,2-Tetrachloroethane	10,183	1.00	0.412 g	U	U	A21072006.D
o-Xylene	10,183	1.00	0.885	U	U	A21072006.D
1,2,3-Trichloropropane	10,183	1.00	0.754 g	U	U	A21072006.D
Isopropylbenzene	10,183	1.00	0.835 g	U	U	A21072006.D
1,3,5-Trimethylbenzene	10,183	1.00	0.835 g	U	U	A21072006.D
1,2,4-Trimethylbenzene	10,183	1.00	0.835 g	U	U	A21072006.D
1,3-Dichlorobenzene	10,183	1.00	0.754 g	U	U	A21072006.D
1,4-Dichlorobenzene	10,183	1.00	0.754 g	U	U	A21072006.D
1,2-Dichlorobenzene	10,183	1.00	0.754 g	U	U	A21072006.D
1,2,4-Trichlorobenzene	10,183	1.00	0.392 g	U	U	A21072006.D
Naphthalene	10,183	1.00	0.805 g	U	U	A21072006.D
1,2,3-Trichlorobenzene	10,183	1.00	0.392 g	U	U	A21072006.D
2-Methylnaphthalene	10,183	1.00	0.764 g	U	U	A21072006.D

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CERTIFICATE OF ANALYSIS

AECOM	**Site Name:** SMUD 59th Street Corporation Yard	**Beacon Proposal:** 210625R02
2020 L Street, Suite 300	**Site Location:** Sacramento, CA	**Lab Work Order:** 0005847
Sacramento, CA 95811	**Project Manager:** Robert Kohlhardt	**Reported:** 07/29/2021

Sample Result Calculation Summary (Concentration)

TO-17 (Passive)

Lab ID: 0005847-03 **Sample Name:** H-SEW-01P **X̄ Temp (°C):** 20.00

Analyte	t Sampling Time minutes	DF Dilution Factor	Uc Uptake Rate	M Initial Result ng	C Calculated Result µg/m³	File ID
Vinyl Chloride	10,091	1.00	0.815	U	U	A21072007.D
1,1-Dichloroethene	10,091	1.00	0.332	U	U	A21072007.D
1,1,2-Trichlorotrifluoroethane (Fr.113)	10,091	1.00	0.895 g	U	U	A21072007.D
trans-1,2-Dichloroethene	10,091	1.00	0.443	U	U	A21072007.D
Methyl-t-butyl ether	10,091	1.00	0.503 g	U	U	A21072007.D
1,1-Dichloroethane	10,091	1.00	0.855	U	U	A21072007.D
cis-1,2-Dichloroethene	10,091	1.00	0.533	U	U	A21072007.D
Chloroform	10,091	1.00	0.352 g	U	U	A21072007.D
1,2-Dichloroethane	10,091	1.00	0.563	U	U	A21072007.D
1,1,1-Trichloroethane	10,091	1.00	1.056	U	U	A21072007.D
Carbon Tetrachloride	10,091	1.00	0.432 g	U	U	A21072007.D
Benzene	10,091	1.00	0.533	10.89	2.02	A21072007.D
Trichloroethene	10,091	1.00	0.332	U	U	A21072007.D
1,4-Dioxane	10,091	1.00	0.412 g	U	U	A21072007.D
1,1,2-Trichloroethane	10,091	1.00	0.332 g	U	U	A21072007.D
Toluene	10,091	1.00	0.402	U	U	A21072007.D
1,2-Dibromoethane (EDB)	10,091	1.00	0.392 g	U	U	A21072007.D
Tetrachloroethene	10,091	1.00	0.412	5.31	1.28	A21072007.D
1,1,1,2-Tetrachloroethane	10,091	1.00	0.412 g	U	U	A21072007.D
Chlorobenzene	10,091	1.00	0.855 g	U	U	A21072007.D
Ethylbenzene	10,091	1.00	0.855	U	U	A21072007.D
p & m-Xylene	10,091	1.00	0.885	10.37	1.16	A21072007.D
1,1,2,2-Tetrachloroethane	10,091	1.00	0.412 g	U	U	A21072007.D
o-Xylene	10,091	1.00	0.885	U	U	A21072007.D
1,2,3-Trichloropropane	10,091	1.00	0.754 g	U	U	A21072007.D
Isopropylbenzene	10,091	1.00	0.835 g	U	U	A21072007.D
1,3,5-Trimethylbenzene	10,091	1.00	0.835 g	20.73	2.46	A21072007.D
1,2,4-Trimethylbenzene	10,091	1.00	0.835 g	30.53	3.62	A21072007.D
1,3-Dichlorobenzene	10,091	1.00	0.754 g	U	U	A21072007.D
1,4-Dichlorobenzene	10,091	1.00	0.754 g	U	U	A21072007.D
1,2-Dichlorobenzene	10,091	1.00	0.754 g	U	U	A21072007.D
1,2,4-Trichlorobenzene	10,091	1.00	0.392 g	U	U	A21072007.D
Naphthalene	10,091	1.00	0.805 g	U	U	A21072007.D
1,2,3-Trichlorobenzene	10,091	1.00	0.392 g	U	U	A21072007.D
2-Methylnaphthalene	10,091	1.00	0.764 g	U	U	A21072007.D

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CERTIFICATE OF ANALYSIS

AECOM	**Site Name:** SMUD 59th Street Corporation Yard	**Beacon Proposal:** 210625R02
2020 L Street, Suite 300	**Site Location:** Sacramento, CA	**Lab Work Order:** 0005847
Sacramento, CA 95811	**Project Manager:** Robert Kohlhardt	**Reported:** 07/29/2021

Sample Result Calculation Summary (Concentration)

TO-17 (Passive)

Lab ID: 0005847-04 **Sample Name:** H-SEW-02P **X̄ Temp (°C):** 20.00

Analyte	t Sampling Time minutes	DF Dilution Factor	Uc Uptake Rate	M Initial Result ng	C Calculated Result µg/m³	File ID
Vinyl Chloride	10,091	1.00	0.815	U	U	A21072008.D
1,1-Dichloroethene	10,091	1.00	0.332	U	U	A21072008.D
1,1,2-Trichlorotrifluoroethane (Fr.113)	10,091	1.00	0.895 g	U	U	A21072008.D
trans-1,2-Dichloroethene	10,091	1.00	0.443	U	U	A21072008.D
Methyl-t-butyl ether	10,091	1.00	0.503 g	U	U	A21072008.D
1,1-Dichloroethane	10,091	1.00	0.855	U	U	A21072008.D
cis-1,2-Dichloroethene	10,091	1.00	0.533	U	U	A21072008.D
Chloroform	10,091	1.00	0.352 g	U	U	A21072008.D
1,2-Dichloroethane	10,091	1.00	0.563	U	U	A21072008.D
1,1,1-Trichloroethane	10,091	1.00	1.056	U	U	A21072008.D
Carbon Tetrachloride	10,091	1.00	0.432 g	U	U	A21072008.D
Benzene	10,091	1.00	0.533	13.84	2.57	A21072008.D
Trichloroethene	10,091	1.00	0.332	U	U	A21072008.D
1,4-Dioxane	10,091	1.00	0.412 g	U	U	A21072008.D
1,1,2-Trichloroethane	10,091	1.00	0.332 g	U	U	A21072008.D
Toluene	10,091	1.00	0.402	12.44	3.06	A21072008.D
1,2-Dibromoethane (EDB)	10,091	1.00	0.392 g	U	U	A21072008.D
Tetrachloroethene	10,091	1.00	0.412	7.25	1.74	A21072008.D
1,1,1,2-Tetrachloroethane	10,091	1.00	0.412 g	U	U	A21072008.D
Chlorobenzene	10,091	1.00	0.855 g	U	U	A21072008.D
Ethylbenzene	10,091	1.00	0.855	U	U	A21072008.D
p & m-Xylene	10,091	1.00	0.885	14.92	1.67	A21072008.D
1,1,2,2-Tetrachloroethane	10,091	1.00	0.412 g	U	U	A21072008.D
o-Xylene	10,091	1.00	0.885	11.75	1.32	A21072008.D
1,2,3-Trichloropropane	10,091	1.00	0.754 g	U	U	A21072008.D
Isopropylbenzene	10,091	1.00	0.835 g	U	U	A21072008.D
1,3,5-Trimethylbenzene	10,091	1.00	0.835 g	26.09	3.10	A21072008.D
1,2,4-Trimethylbenzene	10,091	1.00	0.835 g	39.77	4.72	A21072008.D
1,3-Dichlorobenzene	10,091	1.00	0.754 g	U	U	A21072008.D
1,4-Dichlorobenzene	10,091	1.00	0.754 g	U	U	A21072008.D
1,2-Dichlorobenzene	10,091	1.00	0.754 g	U	U	A21072008.D
1,2,4-Trichlorobenzene	10,091	1.00	0.392 g	U	U	A21072008.D
Naphthalene	10,091	1.00	0.805 g	U	U	A21072008.D
1,2,3-Trichlorobenzene	10,091	1.00	0.392 g	U	U	A21072008.D
2-Methylnaphthalene	10,091	1.00	0.764 g	U	U	A21072008.D

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AECOM	**Site Name:** SMUD 59th Street Corporation Yard	**Beacon Proposal:** 210625R02
2020 L Street, Suite 300	**Site Location:** Sacramento, CA	**Lab Work Order:** 0005847
Sacramento, CA 95811	**Project Manager:** Robert Kohlhardt	**Reported:** 07/29/2021

Sample Result Calculation Summary (Concentration)

TO-17 (Passive)

Analyte	t Sampling Time minutes	DF Dilution Factor	Uc Uptake Rate	M Initial Result ng	C Calculated Result µg/m³	File ID
Lab ID: 0005847-05 **Sample Name:** J-SEW-01P					**X̄ Temp (°C):** 20.00	
Vinyl Chloride	10,136	1.00	0.815	U	U	A21072009.D
1,1-Dichloroethene	10,136	1.00	0.332	U	U	A21072009.D
1,1,2-Trichlorotrifluoroethane (Fr.113)	10,136	1.00	0.895 g	U	U	A21072009.D
trans-1,2-Dichloroethene	10,136	1.00	0.443	U	U	A21072009.D
Methyl-t-butyl ether	10,136	1.00	0.503 g	U	U	A21072009.D
1,1-Dichloroethane	10,136	1.00	0.855	U	U	A21072009.D
cis-1,2-Dichloroethene	10,136	1.00	0.533	U	U	A21072009.D
Chloroform	10,136	1.00	0.352 g	35.02	9.81	A21072009.D
1,2-Dichloroethane	10,136	1.00	0.563	U	U	A21072009.D
1,1,1-Trichloroethane	10,136	1.00	1.056	U	U	A21072009.D
Carbon Tetrachloride	10,136	1.00	0.432 g	U	U	A21072009.D
Benzene	10,136	1.00	0.533	17.93	3.32	A21072009.D
Trichloroethene	10,136	1.00	0.332	U	U	A21072009.D
1,4-Dioxane	10,136	1.00	0.412 g	U	U	A21072009.D
1,1,2-Trichloroethane	10,136	1.00	0.332 g	U	U	A21072009.D
Toluene	10,136	1.00	0.402	U	U	A21072009.D
1,2-Dibromoethane (EDB)	10,136	1.00	0.392 g	U	U	A21072009.D
Tetrachloroethene	10,136	1.00	0.412	U	U	A21072009.D
1,1,1,2-Tetrachloroethane	10,136	1.00	0.412 g	U	U	A21072009.D
Chlorobenzene	10,136	1.00	0.855 g	U	U	A21072009.D
Ethylbenzene	10,136	1.00	0.855	U	U	A21072009.D
p & m-Xylene	10,136	1.00	0.885	U	U	A21072009.D
1,1,2,2-Tetrachloroethane	10,136	1.00	0.412 g	U	U	A21072009.D
o-Xylene	10,136	1.00	0.885	U	U	A21072009.D
1,2,3-Trichloropropane	10,136	1.00	0.754 g	U	U	A21072009.D
Isopropylbenzene	10,136	1.00	0.835 g	U	U	A21072009.D
1,3,5-Trimethylbenzene	10,136	1.00	0.835 g	U	U	A21072009.D
1,2,4-Trimethylbenzene	10,136	1.00	0.835 g	U	U	A21072009.D
1,3-Dichlorobenzene	10,136	1.00	0.754 g	U	U	A21072009.D
1,4-Dichlorobenzene	10,136	1.00	0.754 g	U	U	A21072009.D
1,2-Dichlorobenzene	10,136	1.00	0.754 g	U	U	A21072009.D
1,2,4-Trichlorobenzene	10,136	1.00	0.392 g	U	U	A21072009.D
Naphthalene	10,136	1.00	0.805 g	U	U	A21072009.D
1,2,3-Trichlorobenzene	10,136	1.00	0.392 g	U	U	A21072009.D
2-Methylnaphthalene	10,136	1.00	0.764 g	U	U	A21072009.D

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AECOM	**Site Name:** SMUD 59th Street Corporation Yard	**Beacon Proposal:** 210625R02
2020 L Street, Suite 300	**Site Location:** Sacramento, CA	**Lab Work Order:** 0005847
Sacramento, CA 95811	**Project Manager:** Robert Kohlhardt	**Reported:** 07/29/2021

Sample Result Calculation Summary (Concentration)

TO-17 (Passive)

Analyte	t Sampling Time minutes	DF Dilution Factor	Uc Uptake Rate	M Initial Result ng	C Calculated Result µg/m³	File ID
Lab ID: 0005847-06 **Sample Name:** H-SEW-03P					**X̄ Temp (°C):** 20.00	
Vinyl Chloride	10,094	1.00	0.815	U	U	A21072010.D
1,1-Dichloroethene	10,094	1.00	0.332	U	U	A21072010.D
1,1,2-Trichlorotrifluoroethane (Fr.113)	10,094	1.00	0.895 g	U	U	A21072010.D
trans-1,2-Dichloroethene	10,094	1.00	0.443	U	U	A21072010.D
Methyl-t-butyl ether	10,094	1.00	0.503 g	U	U	A21072010.D
1,1-Dichloroethane	10,094	1.00	0.855	U	U	A21072010.D
cis-1,2-Dichloroethene	10,094	1.00	0.533	U	U	A21072010.D
Chloroform	10,094	1.00	0.352 g	5.47	1.54	A21072010.D
1,2-Dichloroethane	10,094	1.00	0.563	U	U	A21072010.D
1,1,1-Trichloroethane	10,094	1.00	1.056	U	U	A21072010.D
Carbon Tetrachloride	10,094	1.00	0.432 g	U	U	A21072010.D
Benzene	10,094	1.00	0.533	11.92	2.22	A21072010.D
Trichloroethene	10,094	1.00	0.332	U	U	A21072010.D
1,4-Dioxane	10,094	1.00	0.412 g	U	U	A21072010.D
1,1,2-Trichloroethane	10,094	1.00	0.332 g	U	U	A21072010.D
Toluene	10,094	1.00	0.402	85.51	21.1	A21072010.D
1,2-Dibromoethane (EDB)	10,094	1.00	0.392 g	U	U	A21072010.D
Tetrachloroethene	10,094	1.00	0.412	U	U	A21072010.D
1,1,1,2-Tetrachloroethane	10,094	1.00	0.412 g	U	U	A21072010.D
Chlorobenzene	10,094	1.00	0.855 g	U	U	A21072010.D
Ethylbenzene	10,094	1.00	0.855	12.18	1.41	A21072010.D
p & m-Xylene	10,094	1.00	0.885	51.33	5.75	A21072010.D
1,1,2,2-Tetrachloroethane	10,094	1.00	0.412 g	U	U	A21072010.D
o-Xylene	10,094	1.00	0.885	43.90	4.91	A21072010.D
1,2,3-Trichloropropane	10,094	1.00	0.754 g	U	U	A21072010.D
Isopropylbenzene	10,094	1.00	0.835 g	U	U	A21072010.D
1,3,5-Trimethylbenzene	10,094	1.00	0.835 g	U	U	A21072010.D
1,2,4-Trimethylbenzene	10,094	1.00	0.835 g	10.24	1.22	A21072010.D
1,3-Dichlorobenzene	10,094	1.00	0.754 g	U	U	A21072010.D
1,4-Dichlorobenzene	10,094	1.00	0.754 g	U	U	A21072010.D
1,2-Dichlorobenzene	10,094	1.00	0.754 g	U	U	A21072010.D
1,2,4-Trichlorobenzene	10,094	1.00	0.392 g	U	U	A21072010.D
Naphthalene	10,094	1.00	0.805 g	U	U	A21072010.D
1,2,3-Trichlorobenzene	10,094	1.00	0.392 g	U	U	A21072010.D
2-Methylnaphthalene	10,094	1.00	0.764 g	U	U	A21072010.D

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AECOM	**Site Name:** SMUD 59th Street Corporation Yard	**Beacon Proposal:** 210625R02
2020 L Street, Suite 300	**Site Location:** Sacramento, CA	**Lab Work Order:** 0005847
Sacramento, CA 95811	**Project Manager:** Robert Kohlhardt	**Reported:** 07/29/2021

Calculations:

$$C = \frac{1000 \times M \times DF}{Uc \times t}$$

$$Uc = U * \left(\left(\frac{Ts + 273.15}{Tu + 273.15}\right)^{1/2}\right)$$

where: C = concentration (µg/m^3)
M = mass (ng)
DF = dilution factor
Uc = uptake rate (ml/min), corrected
t = sampling time (minutes)
U = compound specific uptake rate
Tu = uptake rate study temperature
Ts = sample average temperature

Note: Tu is 16.65°C

[g] Uptake rate determined using Graham's Law of Diffusion.

Reference: Federal Register/Vol. 79, No. 125/June 30, 2014

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AECOM	**Site Name:** SMUD 59th Street Corporation Yard	**Beacon Proposal:** 210625R02
2020 L Street, Suite 300	**Site Location:** Sacramento, CA	**Lab Work Order:** 0005847
Sacramento, CA 95811	**Project Manager:** Robert Kohlhardt	**Reported:** 07/29/2021

Method Detection and Reporting Limit Calculations (Concentration)

TO-17 (Passive)

Analyte	t Sampling Time minutes	DF Dilution Factor	Uc Uptake Rate	M Initial (ng) LOQ	M Initial (ng) LOD	C Calculated (µg/m³) LOQ	C Calculated (µg/m³) LOD
Lab ID: 0005847-01	**Sample Name:** TB-01					**X̄ Temp (°C):** 20.00	
Vinyl Chloride	10,183	1.00	0.815	10.0	5.00	1.21	0.603
1,1-Dichloroethene	10,183	1.00	0.332	10.0	5.00	2.96	1.48
1,1,2-Trichlorotrifluoroethane (Fr.113)	10,183	1.00	0.895 g	10.0	5.00	1.10	0.549
trans-1,2-Dichloroethene	10,183	1.00	0.443	10.0	5.00	2.22	1.11
Methyl-t-butyl ether	10,183	1.00	0.503 g	25.0	10.00	4.88	1.95
1,1-Dichloroethane	10,183	1.00	0.855	10.0	5.00	1.15	0.574
cis-1,2-Dichloroethene	10,183	1.00	0.533	10.0	5.00	1.84	0.921
Chloroform	10,183	1.00	0.352 g	10.0	5.00	2.79	1.39
1,2-Dichloroethane	10,183	1.00	0.563	10.0	5.00	1.74	0.872
1,1,1-Trichloroethane	10,183	1.00	1.056	10.0	5.00	0.930	0.465
Carbon Tetrachloride	10,183	1.00	0.432 g	10.0	5.00	2.27	1.14
Benzene	10,183	1.00	0.533	25.0	10.00	4.61	1.84
Trichloroethene	10,183	1.00	0.332	10.0	5.00	2.96	1.48
1,4-Dioxane	10,183	1.00	0.412 g	10.0	5.00	2.38	1.19
1,1,2-Trichloroethane	10,183	1.00	0.332 g	10.0	5.00	2.96	1.48
Toluene	10,183	1.00	0.402	25.0	10.00	6.10	2.44
1,2-Dibromoethane (EDB)	10,183	1.00	0.392 g	10.0	5.00	2.50	1.25
Tetrachloroethene	10,183	1.00	0.412	10.0	5.00	2.38	1.19
1,1,1,2-Tetrachloroethane	10,183	1.00	0.412 g	10.0	5.00	2.38	1.19
Chlorobenzene	10,183	1.00	0.855 g	10.0	5.00	1.15	0.574
Ethylbenzene	10,183	1.00	0.855	25.0	10.00	2.87	1.15
p & m-Xylene	10,183	1.00	0.885	25.0	10.00	2.77	1.11
1,1,2,2-Tetrachloroethane	10,183	1.00	0.412 g	10.0	5.00	2.38	1.19
o-Xylene	10,183	1.00	0.885	25.0	10.00	2.77	1.11
1,2,3-Trichloropropane	10,183	1.00	0.754 g	10.0	5.00	1.30	0.651
Isopropylbenzene	10,183	1.00	0.835 g	25.0	10.00	2.94	1.18
1,3,5-Trimethylbenzene	10,183	1.00	0.835 g	25.0	10.00	2.94	1.18
1,2,4-Trimethylbenzene	10,183	1.00	0.835 g	25.0	10.00	2.94	1.18
1,3-Dichlorobenzene	10,183	1.00	0.754 g	10.0	5.00	1.30	0.651
1,4-Dichlorobenzene	10,183	1.00	0.754 g	10.0	5.00	1.30	0.651
1,2-Dichlorobenzene	10,183	1.00	0.754 g	10.0	5.00	1.30	0.651
1,2,4-Trichlorobenzene	10,183	1.00	0.392 g	10.0	5.00	2.50	1.25
Naphthalene	10,183	1.00	0.805 g	10.0	5.00	1.22	0.610
1,2,3-Trichlorobenzene	10,183	1.00	0.392 g	10.0	5.00	2.50	1.25
2-Methylnaphthalene	10,183	1.00	0.764 g	10.0	5.00	1.28	0.642

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AECOM	**Site Name:** SMUD 59th Street Corporation Yard	**Beacon Proposal:** 210625R02
2020 L Street, Suite 300	**Site Location:** Sacramento, CA	**Lab Work Order:** 0005847
Sacramento, CA 95811	**Project Manager:** Robert Kohlhardt	**Reported:** 07/29/2021

Method Detection and Reporting Limit Calculations (Concentration)

TO-17 (Passive)

Analyte	t Sampling Time minutes	DF Dilution Factor	Uc Uptake Rate	M Initial (ng) LOQ	M Initial (ng) LOD	C Calculated (µg/m³) LOQ	C Calculated (µg/m³) LOD
Lab ID: 0005847-02	**Sample Name:** F-SEW-01P					**x̄ Temp (°C):** 20.00	
Vinyl Chloride	10,183	1.00	0.815	10.0	5.00	1.21	0.603
1,1-Dichloroethene	10,183	1.00	0.332	10.0	5.00	2.96	1.48
1,1,2-Trichlorotrifluoroethane (Fr.113)	10,183	1.00	0.895 g	10.0	5.00	1.10	0.549
trans-1,2-Dichloroethene	10,183	1.00	0.443	10.0	5.00	2.22	1.11
Methyl-t-butyl ether	10,183	1.00	0.503 g	25.0	10.00	4.88	1.95
1,1-Dichloroethane	10,183	1.00	0.855	10.0	5.00	1.15	0.574
cis-1,2-Dichloroethene	10,183	1.00	0.533	10.0	5.00	1.84	0.921
Chloroform	10,183	1.00	0.352 g	10.0	5.00	2.79	1.39
1,2-Dichloroethane	10,183	1.00	0.563	10.0	5.00	1.74	0.872
1,1,1-Trichloroethane	10,183	1.00	1.056	10.0	5.00	0.930	0.465
Carbon Tetrachloride	10,183	1.00	0.432 g	10.0	5.00	2.27	1.14
Benzene	10,183	1.00	0.533	25.0	10.00	4.61	1.84
Trichloroethene	10,183	1.00	0.332	10.0	5.00	2.96	1.48
1,4-Dioxane	10,183	1.00	0.412 g	10.0	5.00	2.38	1.19
1,1,2-Trichloroethane	10,183	1.00	0.332 g	10.0	5.00	2.96	1.48
Toluene	10,183	1.00	0.402	25.0	10.00	6.10	2.44
1,2-Dibromoethane (EDB)	10,183	1.00	0.392 g	10.0	5.00	2.50	1.25
Tetrachloroethene	10,183	1.00	0.412	10.0	5.00	2.38	1.19
1,1,1,2-Tetrachloroethane	10,183	1.00	0.412 g	10.0	5.00	2.38	1.19
Chlorobenzene	10,183	1.00	0.855 g	10.0	5.00	1.15	0.574
Ethylbenzene	10,183	1.00	0.855	25.0	10.00	2.87	1.15
p & m-Xylene	10,183	1.00	0.885	25.0	10.00	2.77	1.11
1,1,2,2-Tetrachloroethane	10,183	1.00	0.412 g	10.0	5.00	2.38	1.19
o-Xylene	10,183	1.00	0.885	25.0	10.00	2.77	1.11
1,2,3-Trichloropropane	10,183	1.00	0.754 g	10.0	5.00	1.30	0.651
Isopropylbenzene	10,183	1.00	0.835 g	25.0	10.00	2.94	1.18
1,3,5-Trimethylbenzene	10,183	1.00	0.835 g	25.0	10.00	2.94	1.18
1,2,4-Trimethylbenzene	10,183	1.00	0.835 g	25.0	10.00	2.94	1.18
1,3-Dichlorobenzene	10,183	1.00	0.754 g	10.0	5.00	1.30	0.651
1,4-Dichlorobenzene	10,183	1.00	0.754 g	10.0	5.00	1.30	0.651
1,2-Dichlorobenzene	10,183	1.00	0.754 g	10.0	5.00	1.30	0.651
1,2,4-Trichlorobenzene	10,183	1.00	0.392 g	10.0	5.00	2.50	1.25
Naphthalene	10,183	1.00	0.805 g	10.0	5.00	1.22	0.610
1,2,3-Trichlorobenzene	10,183	1.00	0.392 g	10.0	5.00	2.50	1.25
2-Methylnaphthalene	10,183	1.00	0.764 g	10.0	5.00	1.28	0.642

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AECOM	**Site Name:** SMUD 59th Street Corporation Yard	**Beacon Proposal:** 210625R02
2020 L Street, Suite 300	**Site Location:** Sacramento, CA	**Lab Work Order:** 0005847
Sacramento, CA 95811	**Project Manager:** Robert Kohlhardt	**Reported:** 07/29/2021

Method Detection and Reporting Limit Calculations (Concentration)

TO-17 (Passive)

Analyte	t Sampling Time minutes	DF Dilution Factor	Uc Uptake Rate	M Initial (ng) LOQ	M Initial (ng) LOD	C Calculated (µg/m³) LOQ	C Calculated (µg/m³) LOD
Lab ID: 0005847-03	**Sample Name:** H-SEW-01P					**x̄ Temp (°C):** 20.00	
Vinyl Chloride	10,091	1.00	0.815	10.0	5.00	1.22	0.608
1,1-Dichloroethene	10,091	1.00	0.332	10.0	5.00	2.99	1.49
1,1,2-Trichlorotrifluoroethane (Fr.113)	10,091	1.00	0.895 g	10.0	5.00	1.11	0.554
trans-1,2-Dichloroethene	10,091	1.00	0.443	10.0	5.00	2.24	1.12
Methyl-t-butyl ether	10,091	1.00	0.503 g	25.0	10.00	4.93	1.97
1,1-Dichloroethane	10,091	1.00	0.855	10.0	5.00	1.16	0.580
cis-1,2-Dichloroethene	10,091	1.00	0.533	10.0	5.00	1.86	0.930
Chloroform	10,091	1.00	0.352 g	10.0	5.00	2.82	1.41
1,2-Dichloroethane	10,091	1.00	0.563	10.0	5.00	1.76	0.880
1,1,1-Trichloroethane	10,091	1.00	1.056	10.0	5.00	0.938	0.469
Carbon Tetrachloride	10,091	1.00	0.432 g	10.0	5.00	2.29	1.15
Benzene	10,091	1.00	0.533	25.0	10.00	4.65	1.86
Trichloroethene	10,091	1.00	0.332	10.0	5.00	2.99	1.49
1,4-Dioxane	10,091	1.00	0.412 g	10.0	5.00	2.40	1.20
1,1,2-Trichloroethane	10,091	1.00	0.332 g	10.0	5.00	2.99	1.49
Toluene	10,091	1.00	0.402	25.0	10.00	6.16	2.46
1,2-Dibromoethane (EDB)	10,091	1.00	0.392 g	10.0	5.00	2.53	1.26
Tetrachloroethene	10,091	1.00	0.412	10.0	5.00	2.40	1.20
1,1,1,2-Tetrachloroethane	10,091	1.00	0.412 g	10.0	5.00	2.40	1.20
Chlorobenzene	10,091	1.00	0.855 g	10.0	5.00	1.16	0.580
Ethylbenzene	10,091	1.00	0.855	25.0	10.00	2.90	1.16
p & m-Xylene	10,091	1.00	0.885	25.0	10.00	2.80	1.12
1,1,2,2-Tetrachloroethane	10,091	1.00	0.412 g	10.0	5.00	2.40	1.20
o-Xylene	10,091	1.00	0.885	25.0	10.00	2.80	1.12
1,2,3-Trichloropropane	10,091	1.00	0.754 g	10.0	5.00	1.31	0.657
Isopropylbenzene	10,091	1.00	0.835 g	25.0	10.00	2.97	1.19
1,3,5-Trimethylbenzene	10,091	1.00	0.835 g	25.0	10.00	2.97	1.19
1,2,4-Trimethylbenzene	10,091	1.00	0.835 g	25.0	10.00	2.97	1.19
1,3-Dichlorobenzene	10,091	1.00	0.754 g	10.0	5.00	1.31	0.657
1,4-Dichlorobenzene	10,091	1.00	0.754 g	10.0	5.00	1.31	0.657
1,2-Dichlorobenzene	10,091	1.00	0.754 g	10.0	5.00	1.31	0.657
1,2,4-Trichlorobenzene	10,091	1.00	0.392 g	10.0	5.00	2.53	1.26
Naphthalene	10,091	1.00	0.805 g	10.0	5.00	1.23	0.616
1,2,3-Trichlorobenzene	10,091	1.00	0.392 g	10.0	5.00	2.53	1.26
2-Methylnaphthalene	10,091	1.00	0.764 g	10.0	5.00	1.30	0.648

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AECOM	**Site Name:** SMUD 59th Street Corporation Yard	**Beacon Proposal:** 210625R02
2020 L Street, Suite 300	**Site Location:** Sacramento, CA	**Lab Work Order:** 0005847
Sacramento, CA 95811	**Project Manager:** Robert Kohlhardt	**Reported:** 07/29/2021

Method Detection and Reporting Limit Calculations (Concentration)

TO-17 (Passive)

Analyte	t Sampling Time minutes	DF Dilution Factor	Uc Uptake Rate	M Initial (ng) LOQ	M Initial (ng) LOD	C Calculated (µg/m³) LOQ	C Calculated (µg/m³) LOD
Lab ID: 0005847-04	**Sample Name:** H-SEW-02P					**x̄ Temp (°C):** 20.00	
Vinyl Chloride	10,091	1.00	0.815	10.0	5.00	1.22	0.608
1,1-Dichloroethene	10,091	1.00	0.332	10.0	5.00	2.99	1.49
1,1,2-Trichlorotrifluoroethane (Fr.113)	10,091	1.00	0.895 g	10.0	5.00	1.11	0.554
trans-1,2-Dichloroethene	10,091	1.00	0.443	10.0	5.00	2.24	1.12
Methyl-t-butyl ether	10,091	1.00	0.503 g	25.0	10.00	4.93	1.97
1,1-Dichloroethane	10,091	1.00	0.855	10.0	5.00	1.16	0.580
cis-1,2-Dichloroethene	10,091	1.00	0.533	10.0	5.00	1.86	0.930
Chloroform	10,091	1.00	0.352 g	10.0	5.00	2.82	1.41
1,2-Dichloroethane	10,091	1.00	0.563	10.0	5.00	1.76	0.880
1,1,1-Trichloroethane	10,091	1.00	1.056	10.0	5.00	0.938	0.469
Carbon Tetrachloride	10,091	1.00	0.432 g	10.0	5.00	2.29	1.15
Benzene	10,091	1.00	0.533	25.0	10.00	4.65	1.86
Trichloroethene	10,091	1.00	0.332	10.0	5.00	2.99	1.49
1,4-Dioxane	10,091	1.00	0.412 g	10.0	5.00	2.40	1.20
1,1,2-Trichloroethane	10,091	1.00	0.332 g	10.0	5.00	2.99	1.49
Toluene	10,091	1.00	0.402	25.0	10.00	6.16	2.46
1,2-Dibromoethane (EDB)	10,091	1.00	0.392 g	10.0	5.00	2.53	1.26
Tetrachloroethene	10,091	1.00	0.412	10.0	5.00	2.40	1.20
1,1,1,2-Tetrachloroethane	10,091	1.00	0.412 g	10.0	5.00	2.40	1.20
Chlorobenzene	10,091	1.00	0.855 g	10.0	5.00	1.16	0.580
Ethylbenzene	10,091	1.00	0.855	25.0	10.00	2.90	1.16
p & m-Xylene	10,091	1.00	0.885	25.0	10.00	2.80	1.12
1,1,2,2-Tetrachloroethane	10,091	1.00	0.412 g	10.0	5.00	2.40	1.20
o-Xylene	10,091	1.00	0.885	25.0	10.00	2.80	1.12
1,2,3-Trichloropropane	10,091	1.00	0.754 g	10.0	5.00	1.31	0.657
Isopropylbenzene	10,091	1.00	0.835 g	25.0	10.00	2.97	1.19
1,3,5-Trimethylbenzene	10,091	1.00	0.835 g	25.0	10.00	2.97	1.19
1,2,4-Trimethylbenzene	10,091	1.00	0.835 g	25.0	10.00	2.97	1.19
1,3-Dichlorobenzene	10,091	1.00	0.754 g	10.0	5.00	1.31	0.657
1,4-Dichlorobenzene	10,091	1.00	0.754 g	10.0	5.00	1.31	0.657
1,2-Dichlorobenzene	10,091	1.00	0.754 g	10.0	5.00	1.31	0.657
1,2,4-Trichlorobenzene	10,091	1.00	0.392 g	10.0	5.00	2.53	1.26
Naphthalene	10,091	1.00	0.805 g	10.0	5.00	1.23	0.616
1,2,3-Trichlorobenzene	10,091	1.00	0.392 g	10.0	5.00	2.53	1.26
2-Methylnaphthalene	10,091	1.00	0.764 g	10.0	5.00	1.30	0.648

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AECOM	**Site Name:** SMUD 59th Street Corporation Yard	**Beacon Proposal:** 210625R02
2020 L Street, Suite 300	**Site Location:** Sacramento, CA	**Lab Work Order:** 0005847
Sacramento, CA 95811	**Project Manager:** Robert Kohlhardt	**Reported:** 07/29/2021

Method Detection and Reporting Limit Calculations (Concentration)

TO-17 (Passive)

Analyte	t Sampling Time minutes	DF Dilution Factor	Uc Uptake Rate	M Initial (ng) LOQ	M Initial (ng) LOD	C Calculated (µg/m³) LOQ	C Calculated (µg/m³) LOD
Lab ID: 0005847-05	**Sample Name:** J-SEW-01P					**X̄ Temp (°C):** 20.00	
Vinyl Chloride	10,136	1.00	0.815	10.0	5.00	1.21	0.606
1,1-Dichloroethene	10,136	1.00	0.332	10.0	5.00	2.97	1.49
1,1,2-Trichlorotrifluoroethane (Fr.113)	10,136	1.00	0.895 g	10.0	5.00	1.10	0.551
trans-1,2-Dichloroethene	10,136	1.00	0.443	10.0	5.00	2.23	1.11
Methyl-t-butyl ether	10,136	1.00	0.503 g	25.0	10.00	4.90	1.96
1,1-Dichloroethane	10,136	1.00	0.855	10.0	5.00	1.15	0.577
cis-1,2-Dichloroethene	10,136	1.00	0.533	10.0	5.00	1.85	0.925
Chloroform	10,136	1.00	0.352 g	10.0	5.00	2.80	1.40
1,2-Dichloroethane	10,136	1.00	0.563	10.0	5.00	1.75	0.876
1,1,1-Trichloroethane	10,136	1.00	1.056	10.0	5.00	0.934	0.467
Carbon Tetrachloride	10,136	1.00	0.432 g	10.0	5.00	2.28	1.14
Benzene	10,136	1.00	0.533	25.0	10.00	4.63	1.85
Trichloroethene	10,136	1.00	0.332	10.0	5.00	2.97	1.49
1,4-Dioxane	10,136	1.00	0.412 g	10.0	5.00	2.39	1.20
1,1,2-Trichloroethane	10,136	1.00	0.332 g	10.0	5.00	2.97	1.49
Toluene	10,136	1.00	0.402	25.0	10.00	6.13	2.45
1,2-Dibromoethane (EDB)	10,136	1.00	0.392 g	10.0	5.00	2.52	1.26
Tetrachloroethene	10,136	1.00	0.412	10.0	5.00	2.39	1.20
1,1,1,2-Tetrachloroethane	10,136	1.00	0.412 g	10.0	5.00	2.39	1.20
Chlorobenzene	10,136	1.00	0.855 g	10.0	5.00	1.15	0.577
Ethylbenzene	10,136	1.00	0.855	25.0	10.00	2.89	1.15
p & m-Xylene	10,136	1.00	0.885	25.0	10.00	2.79	1.11
1,1,2,2-Tetrachloroethane	10,136	1.00	0.412 g	10.0	5.00	2.39	1.20
o-Xylene	10,136	1.00	0.885	25.0	10.00	2.79	1.11
1,2,3-Trichloropropane	10,136	1.00	0.754 g	10.0	5.00	1.31	0.654
Isopropylbenzene	10,136	1.00	0.835 g	25.0	10.00	2.95	1.18
1,3,5-Trimethylbenzene	10,136	1.00	0.835 g	25.0	10.00	2.95	1.18
1,2,4-Trimethylbenzene	10,136	1.00	0.835 g	25.0	10.00	2.95	1.18
1,3-Dichlorobenzene	10,136	1.00	0.754 g	10.0	5.00	1.31	0.654
1,4-Dichlorobenzene	10,136	1.00	0.754 g	10.0	5.00	1.31	0.654
1,2-Dichlorobenzene	10,136	1.00	0.754 g	10.0	5.00	1.31	0.654
1,2,4-Trichlorobenzene	10,136	1.00	0.392 g	10.0	5.00	2.52	1.26
Naphthalene	10,136	1.00	0.805 g	10.0	5.00	1.23	0.613
1,2,3-Trichlorobenzene	10,136	1.00	0.392 g	10.0	5.00	2.52	1.26
2-Methylnaphthalene	10,136	1.00	0.764 g	10.0	5.00	1.29	0.645

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AECOM	**Site Name:** SMUD 59th Street Corporation Yard	**Beacon Proposal:** 210625R02
2020 L Street, Suite 300	**Site Location:** Sacramento, CA	**Lab Work Order:** 0005847
Sacramento, CA 95811	**Project Manager:** Robert Kohlhardt	**Reported:** 07/29/2021

Method Detection and Reporting Limit Calculations (Concentration)

TO-17 (Passive)

Analyte	t Sampling Time minutes	DF Dilution Factor	Uc Uptake Rate	M Initial (ng) LOQ	M Initial (ng) LOD	C Calculated (µg/m³) LOQ	C Calculated (µg/m³) LOD
Lab ID: 0005847-06	**Sample Name:** H-SEW-03P					**x̄ Temp (°C):** 20.00	
Vinyl Chloride	10,094	1.00	0.815	10.0	5.00	1.22	0.608
1,1-Dichloroethene	10,094	1.00	0.332	10.0	5.00	2.98	1.49
1,1,2-Trichlorotrifluoroethane (Fr.113)	10,094	1.00	0.895 g	10.0	5.00	1.11	0.553
trans-1,2-Dichloroethene	10,094	1.00	0.443	10.0	5.00	2.24	1.12
Methyl-t-butyl ether	10,094	1.00	0.503 g	25.0	10.00	4.93	1.97
1,1-Dichloroethane	10,094	1.00	0.855	10.0	5.00	1.16	0.579
cis-1,2-Dichloroethene	10,094	1.00	0.533	10.0	5.00	1.86	0.929
Chloroform	10,094	1.00	0.352 g	10.0	5.00	2.81	1.41
1,2-Dichloroethane	10,094	1.00	0.563	10.0	5.00	1.76	0.879
1,1,1-Trichloroethane	10,094	1.00	1.056	10.0	5.00	0.938	0.469
Carbon Tetrachloride	10,094	1.00	0.432 g	10.0	5.00	2.29	1.15
Benzene	10,094	1.00	0.533	25.0	10.00	4.65	1.86
Trichloroethene	10,094	1.00	0.332	10.0	5.00	2.98	1.49
1,4-Dioxane	10,094	1.00	0.412 g	10.0	5.00	2.40	1.20
1,1,2-Trichloroethane	10,094	1.00	0.332 g	10.0	5.00	2.98	1.49
Toluene	10,094	1.00	0.402	25.0	10.00	6.16	2.46
1,2-Dibromoethane (EDB)	10,094	1.00	0.392 g	10.0	5.00	2.53	1.26
Tetrachloroethene	10,094	1.00	0.412	10.0	5.00	2.40	1.20
1,1,1,2-Tetrachloroethane	10,094	1.00	0.412 g	10.0	5.00	2.40	1.20
Chlorobenzene	10,094	1.00	0.855 g	10.0	5.00	1.16	0.579
Ethylbenzene	10,094	1.00	0.855	25.0	10.00	2.90	1.16
p & m-Xylene	10,094	1.00	0.885	25.0	10.00	2.80	1.12
1,1,2,2-Tetrachloroethane	10,094	1.00	0.412 g	10.0	5.00	2.40	1.20
o-Xylene	10,094	1.00	0.885	25.0	10.00	2.80	1.12
1,2,3-Trichloropropane	10,094	1.00	0.754 g	10.0	5.00	1.31	0.657
Isopropylbenzene	10,094	1.00	0.835 g	25.0	10.00	2.97	1.19
1,3,5-Trimethylbenzene	10,094	1.00	0.835 g	25.0	10.00	2.97	1.19
1,2,4-Trimethylbenzene	10,094	1.00	0.835 g	25.0	10.00	2.97	1.19
1,3-Dichlorobenzene	10,094	1.00	0.754 g	10.0	5.00	1.31	0.657
1,4-Dichlorobenzene	10,094	1.00	0.754 g	10.0	5.00	1.31	0.657
1,2-Dichlorobenzene	10,094	1.00	0.754 g	10.0	5.00	1.31	0.657
1,2,4-Trichlorobenzene	10,094	1.00	0.392 g	10.0	5.00	2.53	1.26
Naphthalene	10,094	1.00	0.805 g	10.0	5.00	1.23	0.616
1,2,3-Trichlorobenzene	10,094	1.00	0.392 g	10.0	5.00	2.53	1.26
2-Methylnaphthalene	10,094	1.00	0.764 g	10.0	5.00	1.30	0.648

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AECOM	**Site Name:** SMUD 59th Street Corporation Yard	**Beacon Proposal:** 210625R02
2020 L Street, Suite 300	**Site Location:** Sacramento, CA	**Lab Work Order:** 0005847
Sacramento, CA 95811	**Project Manager:** Robert Kohlhardt	**Reported:** 07/29/2021

Laboratory Certification List

Certification ID	Certification No.	Description	Expires	Project Required
Alaska CS-LAP	19-002	Alaska Department of Environmental Conservation	01/31/2023	
DoD-ELAP	L20-532	United States Department of Defense Environmental Laboratory Accreditation	12/31/2022	
ISO/IEC 17025:2017	L20-532	General Requirements for the competence of Testing and Calibration Laboratories	12/31/2022	
NY-NELAC	12097	New York Department of Health	04/01/2022	
Utah-NELAC	MD01091	Utah Department of Health	12/31/2021	

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AECOM	**Site Name:** SMUD 59th Street Corporation Yard	**Beacon Proposal:** 210625R02
2020 L Street, Suite 300	**Site Location:** Sacramento, CA	**Lab Work Order:** 0005847
Sacramento, CA 95811	**Project Manager:** Robert Kohlhardt	**Reported:** 07/29/2021

Qualifiers/Notes and Definitions

General Definitions:

DF	Dilution Factor
DL	Detection Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
NA	Not Applicable
Q	Qualifier
RPD	Relative Percent Difference
RT	Retention Times in Minutes
RRT	Evaluation of Relative Retention Times in RRT Units (qualified if outside $\pm$0.06 control limits)
3σ	Uncertainty
∉	Compound not on scope of accreditation
+	values are outside method/contract required QC limits
∅	Compound not on scope of accreditation and analyzed with a one-point calibration

Sample/Sample Receipt Qualifiers and Notes:

J	Value reported below limit of quantitation (LOQ).

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AECOM	**Site Name:** SMUD 59th Street Corporation Yard	**Beacon Proposal:** 210625R02
2020 L Street, Suite 300	**Site Location:** Sacramento, CA	**Lab Work Order:** 0005847
Sacramento, CA 95811	**Project Manager:** Robert Kohlhardt	**Reported:** 07/29/2021

Sample Management Records

BEACON ENVIRONMENTAL
2203A Commerce Rd, Suite 1
Forest Hill, MD 21050, USA
1-410-838-8780
800-878-5510 Toll Free

PASSIVE AIR SAMPLING - BEACON SAMPLER | CHAIN-OF-CUSTODY

Client Information			
Company: AECOM	Project Manager: Andy Shepard	Client PO: 60632793.6	
Address: 2020 L. St., Suite 400	Project Name: SMUD 59th Street	Turn around time (check one): ☒ Normal ☐ Rush (specify) ____ days	
City / State / Zip: Sacramento, CA 95811	Location: 1708 59th St., Sacramento, CA	Analysis: ☒ Method TO-17 ☐ Method 8260C	
Phone: 916-414-5800	Submitted by: Andy Shepard		
	Email: Robert.Kohlhardt@aecom.com		

Location ID	Start Date	Start Time	Stop Date	Stop Time	Aver Temp (C)	Notes	INDOOR AIR	AMBIENT AIR	CRAWL SPACE	SEWER GAS
F-SEW-01P	7/8/21	0848	7/15/21	1031	20					X
H-SEW-01P	↓	0921	↓	0932	↓					↓
H-SEW-02P		0921		0932						
J-SEW-01P		0948		1044						
H-SEW-03P	↓	1006	↓	1020	↓					
TB-01						Trip blank				

Special Notes / Instructions:

Relinquished by (signature):	Date / Time: 07/15/2021 11:25	Received by (signature):	Date / Time: 7/19/2021 1152
Relinquished by (signature):	Date / Time:	Received by (signature):	Date / Time:
For Lab Use Only	Beacon Job No: 5847	Beacon Proposal: 210625R02	
Courier Name: Fedex	Shipment Condition: Good	Custody Seal Intact: ☐ Yes ☐ No ☒ n/a	Custody Seal No: